

FTIR Photoacoustic Bibliography: 1978–March 2015
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- “Effect of Ca Substitution on Some Physical Properties of Nano-Structured and Bulk Ni-Ferrite Samples.” Assar, S. T.; Abosheisha, H. F., *J Magn Magn Mater*, **2015**, *374*, 264-272. DOI: 10.1016/j.jmmm.2014.08.011
- “Fourier Transform Mid-Infrared Photoacoustic Spectroscopy for Presymptomatic Detection of Powdery Mildew Infection in *Rubus corchorifolius* L.” Du, C.; Zhou, J., *Spectrosc Lett*, **2015**, *48* (8), 610-615. DOI: 10.1080/00387010.2014.938758
- “Determination of Nitrogen in Rapeseed by Fourier Transform Infrared Photoacoustic Spectroscopy and Independent Component Analysis.” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *Anal Lett*, **2015**, *48* (7), 1150-1162. DOI: 10.1080/00032719.2014.976872
- “Basic Researches for the Cultural Properties Using a FT-IR Photoacoustic Spectroscopy - In a Case of Cultural Textiles.” Okuyama, M.; Sato, M., *Sen-I Gakkaishi*, **2015**, *71* (1), 6-9.
- “Fourier Transform Infrared Photoacoustic Spectroscopy as a Potential Tool in Assessing the Role of Diet in Cuticular Chemical Composition of *Ectatomma brunneum*.” Bernardi, R. C.; Firmino, E. L. B.; Pereira, M. C.; Andrade, L. H. C.; Cardoso, C. A. L.; Suárez, Y. R.; Antonialli-Junior, W. F.; Lima, S. M., *Gen Mol Res*, **2014**, *13* (4), 10035-10048. DOI: 10.4238/2014.November.28.8
- “Simulation of an Experimental Database of Infrared Spectra of Complex Gaseous Mixtures for Detecting Specific Substances. The Case of Drug Precursors.” Calderisi, M.; Ulrici, A.; Sinisalo, S.; Uotila, J.; Seeber, R., *Sens Actuators B*, **2014**, *193*, 806-814. DOI: 10.1016/j.snb.2013.12.035
- “A 1915-2011 Microscale Record of Soil Organic Matter under Wheat Cultivation using FTIR-PAS Depth-Profiling.” Du, C.; Goynes, K. W.; Miles, R. J.; Zhou, J., *Agron Sustainable Dev*, **2014**, *34* (4), 803-811. DOI: 10.1007/s13593-013-0201-6
- “Spectroscopic Characterization of Genetically Modified Flax Fibers.” Dyminska, L.; Gagor, A.; Hanuza, J.; Kulma, A.; Preisner, M.; Zuk, M.; Szatkowski, M.; Szopa, T., *J Mol Struct*, **2014**, *1074*, 321-329. DOI: 10.1016/j.molstruc.2014.06.013
- “Photoacoustic Radiation Force on a Microbubble.” Erkol, H.; Aytac-Kipergil, E.; Unlu, M. B., *Phys Rev E*, **2014**, *90* (2), Article No. 023001. DOI: 10.1103/PhysRevE.90.023001
- “High Sensitivity (femto-FT-CEAS) Spectra of Carbonyl Sulphide between 6200 and 8200 cm⁻¹, and New Energy Pattern in the Global Rovibrational Analysis of ¹⁶O¹²C³²S.” Golebiowski, D.; Vaernewijck, X. d. G. d. E.; Herman, M.; Vander Auwera, J.; Fayt, A., *J Quant Spectrosc Radiat Transfer*, **2014**, *149*, 184-203. DOI: 10.1016/j.jqsrt.2014.07.005
- “Broadly Tunable Quantum Cascade Laser in Cantilever-Enhanced Photoacoustic Infrared Spectroscopy of Solids.” Lehtinen, J.; Kuusela, T., *Appl Phys B*, **2014**, *115* (3), 413-418. DOI: 10.1007/s00340-013-5617-9
- “Determination of the Contents of Magnesium and Potassium in Rapeseeds using FTIR-PAS Combined with Least Squares Support Vector Machines and Uninformative Variable Elimination.” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *Anal Methods*, **2014**, *6* (8), 2586-2591. DOI: 10.1039/c3ay41460d
- “Classification of Rapeseed Colors using Fourier Transform Mid-Infrared Photoacoustic Spectroscopy.” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *Anal Methods*, **2014**, *6* (5), 1412-1417. DOI: 10.1039/c3ay41646a
- “Classifying Rapeseed Varieties using Fourier Transform Infrared Photoacoustic Spectroscopy (FTIR-PAS).” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *Comput Electron Agric*, **2014**, *107*, 58-63. DOI: 10.1016/j.compag.2014.06.005
- “Use of FTIR-PAS Combined with Chemometrics to Quantify Nutritional Information in Rapeseeds (*Brassica napus*).” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *J Plant Nutr Soil Sci*, **2014**, *177* (6), 927-933. DOI: 10.1002/jpln.201300399
- “Fast and Nondestructive Determination of Protein Content in Rapeseeds (*Brassica napus* L.) using Fourier Transform Infrared Photoacoustic Spectroscopy (FTIR-PAS).” Lu, Y.; Du, C.; Yu, C.; Zhou, J., *J Sci Food Agric*, **2014**, *94* (11), 2239-2245. DOI: 10.1002/jsfa.6548
- “In Situ Depth Profiling of Complex Film by Fourier Transform Infrared Photoacoustic Spectroscopy.” Lu, Y.-Z.; Du, C.-W.; Zhou, J.-M.; Wang, J., *Chinese Journal of Analytical Chemistry*, **2014**, *42* (7), 1028-1032.
- “Curcumin-β-Cyclodextrin Inclusion Complex: Stability, Solubility, Characterisation by FT-IR, FT-Raman, X-Ray Diffraction and Photoacoustic Spectroscopy, and Food Application.” Mangolim, C. S.; Moriwaki, C.; Nogueira, A. C.; Sato, F.; Baesso, M. L.; Neto, A. M.; Matioli, G., *Food Chem*, **2014**, *153*, 361-370.

DOI: 10.1016/j.foodchem.2013.12.067

- "Efficient Dehydration of Ethanol on the Self-Organized Surface Layer of H₃PW₁₂O₄₀ Formed in the Acidic Potassium Tungstophosphates." Matachowski, L.; Drelinkiewicz, A.; Lalik, E.; Ruggiero-Mikolajczyk, M.; Mucha, D.; Krysiak-Czerwenka, J., *Appl Catal A*, **2014**, *469*, 290-299. DOI: 10.1016/j.apcata.2013.10.009
- "Análise por FT-IR (UATR e PAS) de Microbicidas em Filmes Poliméricos de Tintas Comerciais [Analysis by FT-IR Techniques (UATR and PAS) of Microbicidas in Polymeric Films of Commercial Paints]." Pedro, R.; Dutra, R. d. C. L.; Moraes, J. J.; Diniz, M. F.; Mattos, E. d. C., *Polímeros-Ciencia E Tecnologia*, **2014**, *24* (2), 214-221. DOI: 10.4322/polimeros.2014.041
- "Assessing Soil Constituents and Labile Soil Organic Carbon by Mid-Infrared Photoacoustic Spectroscopy." Peltre, C.; Bruun, S.; Du, C.; Thomsen, I. K.; Jensen, L. S., *Soil Biol Biochem*, **2014**, *77*, 41-50. DOI: 10.1016/j.soilbio.2014.06.022
- "Elucidation of Intermediates and Mechanisms in Heterogeneous Catalysis Using Infrared Spectroscopy." Savara, A.; Weitz, E.; In *Annu Rev Phys Chem*, Johnson, M. A.; Martinez, T. J., Eds.; 2014; Vol. 65, pp 249-273. DOI: 10.1146/annurev-physchem-040513-103647
- "Polydomy in the Ant *Ectatomma opaciventre*." Tofoloa, V. C.; Giannotti, E.; Neves, E. F.; Andrade, L. H. C.; Lima, S. M.; Suarez, Y. R.; Antonialli-Junior, W. F., *Journal of Insect Science*, **2014**, *14* (1), Article No. 21. DOI: 10.1093/jis/14.1.21
- "Characterization of Hydrophobic Soils: A Novel Approach Using Mid-Infrared Photoacoustic Spectroscopy." Woolverton, P.; Dragila, M. I., *Appl Spectrosc*, **2014**, *68* (12), 1407-1410. DOI: 10.1366/14-07450
- "Applying Infrared Photoacoustic Spectroscopy and Support Vector Machine Model to Quantify Soil Organic Matter Content." Zeng, Y.; Lu, Y.; Du, C.; Zhou, J., *Acta Pedologica Sinica*, **2014**, *51* (6), 1262-1269.
- "Using Lanthanum Fluoride Fine Particles as Stationary Phase for Thin-Layer Chromatography/Fourier Transform Infrared Spectroscopy Analysis." Zhu, Q.; Wu, H.; Wang, F.; He, A.; Huang, K.; Wei, Y.; Liu, C.; Zhai, Y.; Weng, S.; Yang, Z.; Xu, Y.; Noda, I.; Wu, J., *J Planar Chromatogr - Mod TLC*, **2014**, *27* (2), 80-83. DOI: 10.1556/jpc.27.2014.2.1
- "Analysis of Resistant Starches in Rat Caecal Contents using Fourier Transform Infrared Photoacoustic Spectroscopy." Anderson, T. J.; Ai, Y.; Jones, R. W.; Houk, R. S.; Jane, J.-I.; Zhao, Y.; Birt, D. F.; McClelland, J. F., *Abstracts of Papers of the American Chemical Society*, **2013**, *246*, 88-AGFD.
- "Analysis of Resistant Starches in Rat Cecal Contents Using Fourier Transform Infrared Photoacoustic Spectroscopy." Anderson, T. J.; Ai, Y.; Jones, R. W.; Houk, R. S.; Jane, J.-I.; Zhao, Y.; Birt, D. F.; McClelland, J. F., *J Agric Food Chem*, **2013**, *61* (8), 1818-1822. DOI: 10.1021/jf3042616
- "Measurement of Resistant Starches in Rat Cecal Contents using Fourier Transform Infrared Photoacoustic Spectroscopy." Anderson, T. J.; Ai, Y.; Jones, R. W.; Houk, R. S.; Jane, J.-I.; Zhao, Y.; Birt, D. F.; McClelland, J. F.; In *Instrumental Methods for the Analysis and Identification of Bioactive Molecules*; Symposium on Instrumental Methods for Analysis of Bioactive Molecules/246th American Chemical Society National Meeting and Exposition, Jayprakash, G. K.; Patil, B. S.; Pellati, F., Eds.; American Chemical Society, Vol. 1185; 2013, 333-349. DOI: 10.1021/bk-2014-1185.ch017
- "Infrared Spectroscopy and Density Functional Theory of Crystalline β -2,4,6,8,10,12-Hexanitrohexaaziosowurtzitan (β CL-20) in the Region of its C-H Stretching Vibrations." Behler, K. D.; Pesce-Rodriguez, R.; Cabalo, J.; Sausa, R., *Spectrochim Acta, Part A*, **2013**, *114*, 708-712. DOI: 10.1016/j.saa.2013.05.075
- "Low vacuum thermochemical conversion of anaerobically digested swine solids." Bergier, I.; Vinhal-Freitas, I.; Guiotoku, M., *Chemosphere*, **2013**, *92* (6), 714-720. DOI: 10.1016/j.chemosphere.2013.03.017
- "Crude Extract of *Fusarium oxysporum* Induces Apoptosis and Structural Alterations in the Skin of Healthy Rats." de Paulo, L. F.; Coelho, A. C.; Svidzinski, T. I. E.; Sato, F.; Rohling, J. H.; Natali, M. R. M.; Baesso, M. L.; Hernandez, L., *J Biomed Opt*, **2013**, *18* (9), Article No. 095004. DOI: 10.1117/1.jbo.18.9.095004
- "Application of Mid-Infrared Photoacoustic Spectroscopy in Monitoring Carbonate Content in Soils." Du, C.; Ma, Z.; Zhou, J.; Goynes, K. W., *Sens Actuators B*, **2013**, *188*, 1167-1175. DOI: 10.1016/j.snb.2013.08.023
- "Identification of Dust Source Using Fourier Transform Mid-Infrared Photoacoustic Spectroscopy." Du, C.-w.; Zhou, J.-m.; Shen, Y.-z., *Spectroscopy and Spectral Analysis*, **2013**, *33* (6), 1525-1527. DOI:

10.3964/j.issn.1000-0593(2013)06-1525-03

- "Photoacoustic FTIR Spectroscopic Study of Undisturbed Human Cortical Bone." Gu, C.; Katti, D. R.; Katti, K. S., *Spectrochim Acta, Part A*, **2013**, *103*, 25-37. DOI: 10.1016/j.saa.2012.10.062
- "Quantification of Effective Attenuation Coefficients using Continuous Wavelet Transform of Photoacoustic Signals." Hirasawa, T.; Fujita, M.; Okawa, S.; Kushibiki, T.; Ishihara, M., *Appl Opt*, **2013**, *52* (35), 8562-8571. DOI: 10.1364/ao.52.008562
- "Cantilever-Enhanced Photoacoustic Spectroscopy in the Analysis of Volatile Organic Compounds." Hirschmann, C. B.; Ph.D. Thesis, University of Oulu, Espoo, Finland, 2013.
- "Real-Time Sensing of Soil Nitrate Concentration in the Parts per Million Range While the Soil Is in Motion." Jones, R. W.; Rathke, S. J.; Laird, D. A.; McClelland, J. F., *Appl Spectrosc*, **2013**, *67* (9), 1106-1110. DOI: 10.1366/13-07064
- "Versatile Gas Detection System Based on Combined NDIR Transmission and Photoacoustic Absorption Measurements." Kuehn, K.; Pignatelli, E.; Schuetze, A., *IEEE Sens J*, **2013**, *13* (3), 934-940. DOI: 10.1109/jsen.2012.2224104
- "Performance Comparison of Microphone and Reflector Array Structures for Real-Time and Outdoor Photoacoustic Chemical Sensing." Lay, J.; Chen, X.; Choa, F.-S.; Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Sensing XIV, Fountain, A. W., Ed. SPIE, Vol. 8710; 2013, Article No. 871009. DOI: 10.1117/12.2016293
- "Spectroscopic Studies of Human Hair, Nail, and Saliva Samples Using a Cantilever-Based Photoacoustic Detection." Lehtinen, J., *Int J Thermophys*, **2013**, *34* (8-9), 1559-1568. DOI: 10.1007/s10765-013-1488-x
- "Human Hair in the Identification of Cocaine Abuse with Cantilever-Enhanced Photoacoustic Spectroscopy and Principal Component Analysis." Lehtinen, J.; Hirschmann, C. B.; Keiski, R. L.; Kuusela, T., *Appl Spectrosc*, **2013**, *67* (8), 846-850. DOI: 10.1366/12-06904
- "Synthesis of POSS-Polyurethane Hybrids Using Octakis(*m*-isoprenyl- α,α' -dimethylbenzylisocyanato dimethylsiloxy) octasilsesquioxane (Q₈M₈TM) as a Crosslinking Agent." Markovic, E.; Nguyen, K.; Clarke, S.; Constantopoulos, K.; Matison, J.; Simon, G. P., *J Polym Sci, Part A*, **2013**, *51* (23), 5038-5045. DOI: 10.1002/pola.26934
- "Morphological and Structural Changes in Lung Tissue Infected by *Paracoccidioides brasiliensis*: FTIR Photoacoustic Spectroscopy and Histological Analysis." Morato, E. M.; Morais, G. R.; Sato, F.; Medina, A. N.; Svidzinski, T. I. E.; Baesso, M. L.; Hernandez, L., *Photochem Photobiol*, **2013**, *89* (5), 1170-1175. DOI: 10.1111/php.12110
- "Social Parasitism and Dynamics of Cuticular Hydrocarbons in Paper Wasps of the Genus *Mischocyttarus*." Neves, E. F.; Montagna, T. S.; Andrade, L. H. C.; Suarez, Y. R.; Lima, S. M.; Antonialli, W. F., Jr., *J Kans Entomol Soc*, **2013**, *86* (1), 69-77. DOI: 10.2317/JKES1207610.1
- "Pollen Identification by Fourier Transform Infrared Photoacoustic Spectroscopy." Parodi, G.; Dickerson, P.; Cloud, J., *Appl Spectrosc*, **2013**, *67* (3), 342-348. DOI: 10.1366/12-06622
- "Preparation of Graphene Oxide Stabilized Nickel Nanoparticles with Thermal Effusivity Properties by Laser Ablation Method." Sadrolhosseini, A. R.; Noor, A. S. M.; Shamel, K.; Kharazmi, A.; Huang, N. M.; Mahdi, M. A., *J Nanomater*, **2013**, *2013*, Article No. 986764. DOI: 10.1155/2013/986764
- "Nanometric Particle Size and Phase Controlled Synthesis and Characterization of γ -Fe₂O₃ or (α + γ)-Fe₂O₃ by a Modified Sol-Gel Method." Silva, M. F.; de Oliveira, L. A. S.; Ciciliati, M. A.; Silva, L. T.; Pereira, B. S.; Hechenleitner, A. A. W.; Oliveira, D. M. F.; Pirola, K. R.; Ivashita, F. F.; Paesano, A., Jr.; Martin Pastor, J.; Iñaki Pérez-Landazábal, J.; Pineda, E. A. G., *J Appl Phys*, **2013**, *114* (10), Article No. 104311. DOI: 10.1063/1.4821253
- "Intramolecular Interactions in 2-Aminoethanol and 3-Aminopropanol." Thomsen, D. L.; Axson, J. L.; Schroder, S. D.; Lane, J. R.; Vaida, V.; Kjaergaard, H. G., *J Phys Chem A*, **2013**, *117* (40), 10260-10273. DOI: 10.1021/jp405512y
- "Photoacoustic Monitoring of the Macroscopic Orientational Order in Disperse Red 1 Azo-Dye-Based Dissolutions." Torres-Zuniga, V.; Castaneda-Guzman, R.; Morales-Saavedra, O. G., *Int J Thermophys*, **2013**, *34* (8-9), 1673-1682. DOI: 10.1007/s10765-012-1368-9
- "Hydrogen Peroxide Diffusion Dynamics in Dental Tissues." Ubaldini, A. L. M.; Baesso, M. L.; Medina Neto, A.; Sato, F.; Bento, A. C.; Pascotto, R. C., *J Dent Res*, **2013**, *92* (7), 661-665. DOI: 10.1177/0022034513488893
- "Development of Narrow-Band TLC Plates for TLC/FTIR Analysis." Wang, F.; Wu, H.; Zhu, Q.; Huang, K.; Wei, Y.; Liu, C.; Zhai, Y.; Yang, Z.; Weng, S.; Xu, Y.; Noda, I.; Wu, J., *Anal Methods*, **2013**, *5* (16),

- 4138-4144. DOI: 10.1039/c3ay40128f
- "Carrier Transport Characteristics in CdSe/CdS/Thioglycolic Acid Ligand Quantum Dots with a Core-Shell Structure." Xue, Z.-J.; Li, K.-Y.; Sun, Z.-P., *Acta Physica Sinica*, **2013**, 62 (6), Article No. 066801. DOI: 10.7498/aps.62.066801
- "Rapid Determination of Nitrate in Chinese Cabbage Using Fourier Transforms Mid-infrared Spectroscopy." Yang, J.-B.; Du, C.-W.; Shen, Y.-Z.; Zhou, J.-M., *Chinese Journal of Analytical Chemistry*, **2013**, 41 (8), 1264-1268. DOI: 10.3724/sp.j.1096.2013.21016
- "Influence of Humic Acid on Interaction of Ammonium and Potassium Ions on Clay Minerals." Zhang, W.-Z.; Chen, X.-Q.; Zhou, J.-M.; Liu, D.-H.; Wang, H.-Y.; Du, C.-W., *Pedosphere*, **2013**, 23 (4), 493-502. DOI: 10.1016/S1002-0160(13)60042-9
- "Differentiation of Neotropical Fish Species with Statistical Analysis of Fourier Transform Infrared Photoacoustic Spectroscopy Data." Almeida, F. S.; Lima, S. M.; Andrade, L. H. C.; Suárez, Y. R., *Appl Spectrosc*, **2012**, 66 (7), 782-785. DOI: 10.1366/11-06487
- "Recognition Algorithm for Assisting Ovarian Cancer Diagnosis from Coregistered Ultrasound and Photoacoustic Images: Ex vivo Study." Alqasemi, U.; Kumavor, P.; Aguirre, A.; Zhu, Q., *J Biomed Opt*, **2012**, 17 (12), Article No. 126003. DOI: 10.1117/1.jbo.17.12.126003
- "An in situ FTIR Step-Scan Photoacoustic Investigation of Kerogen and Minerals in Oil Shale." Alstadt, K. N.; Katti, D. R.; Katti, K. S., *Spectrochim Acta, Part A*, **2012**, 89, 105-113. DOI: 10.1016/j.saa.2011.10.078
- "Raman, FTIR, Photoacoustic-Infrared, and Inelastic Neutron Scattering Spectra of Ternary Metal Hydride Salts A_2MH_5 , ($A = Ca, Sr, Eu$; $M = Ir, Rh$) and their Deuterides." Barsan, M. M.; Butler, I. S.; Gilson, D. F. R.; Moyer, R. O., Jr.; Zhou, W.; Wu, H.; Udovic, T. J., *J Phys Chem A*, **2012**, 116 (10), 2490-2496. DOI: 10.1021/jp212194z
- "Dual Beam Photoacoustic Infrared Spectroscopy of Solids using an External Cavity Quantum Cascade Laser." Dehghany, M.; Michaelian, K. H., *Rev Sci Instrum*, **2012**, 83 (6), Article No. 064901. DOI: 10.1063/1.4727877
- "Organic and Inorganic Carbon in Paddy Soil as Evaluated by Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Zhou, J.; Goynes, K. W., *PLoS One*, **2012**, 7 (8), Article No. e43368. DOI: 10.1371/journal.pone.0043368
- "Photoacoustic Diagnosis of Human Teeth using Interferometric Detection Scheme." El-Sharkawy, Y. H.; El Sherif, A. F., *Optics and Laser Technology*, **2012**, 44 (5), 1501-1506. DOI: 10.1016/j.optlastec.2011.12.009
- "Discrimination of Organic Coffee via Fourier Transform Infrared-Photoacoustic Spectroscopy." Gordillo-Delgado, F.; Marín, E.; Cortés-Hernández, D. M.; Mejía-Morales, C.; García-Salcedo, A. J., *J Sci Food Agric*, **2012**, 92 (11), 2316-2319. DOI: 10.1002/jsfa.5628
- "Selective Real-Time Detection of Gaseous Nerve Agent Simulants using Multiwavelength Photoacoustics." Gurton, K. P.; Felton, M.; Tober, R., *Opt Lett*, **2012**, 37 (16), 3474-3476. DOI: 10.1364/OL.37.003474
- "Influence of Intramolecular Hydrogen Bonding on OH-Stretching Overtone Intensities and Band Positions in Peroxyacetic Acid." Hazra, M. K.; Kuang, X.; Sinha, A., *J Phys Chem A*, **2012**, 116 (24), 5784-5795. DOI: 10.1021/jp206637t
- "Accelerated Climate Aging of Building Materials and their Characterization by Fourier Transform Infrared Radiation Analysis." Jelle, B. P.; Nilsen, T.-N.; Hovde, P. J.; Gustavsen, A., *Journal of Building Physics*, **2012**, 36 (1), 99-112. DOI: 10.1177/1744259111423367
- "Reexamination of Infrared Spectra of Bi Nanorods: L-T Transition of Extrinsic Phases." Lingam, K.; Reppert, J.; Dickel, D.; Podila, R.; Puneet, P.; Sheftic, E.; Kuthirummal, N.; Skove, M.; He, J.; Rao, A. M., *Nano*, **2012**, 7 (2), Article No. 1230003. DOI: 10.1142/s1793292012300034
- "Thermo-Optic Characterization of Neodymium/Nickel Doped Silica Glasses Prepared via Sol-Gel Route." Manuel, A.; Kumar, B. R.; Basheer, N. S.; Kumari, B. S.; Paulose, P. I.; Kurian, A.; George, S. D., *Spectrochim Acta, Part A*, **2012**, 98, 474-478. DOI: 10.1016/j.saa.2012.09.008
- "Age-Related Changes in the Surface Pheromones of the Wasp *Mischocyttarus consimilis* (Hymenoptera: Vespidae)." Neves, E. F.; Andrade, L. H. C.; Suarez, Y. R.; Lima, S. M.; Antonialli-Junior, W. F., *Gen Mol Res*, **2012**, 11 (3), 1891-1898. DOI: 10.4238/2012.July.19.8
- "Infrared Spectroscopic Analysis of Human Interstitial Fluid in vitro and in vivo using FT-IR Spectroscopy and Pulsed Quantum Cascade Lasers (QCL): Establishing a New Approach to Non Invasive Glucose Measurement." Pleitez, M.; von Lilienfeld-Toal, H.; Maentele, W., *Spectrochim Acta, Part A*, **2012**, 85

- (1), 61-65. DOI: 10.1016/j.saa.2011.09.007
- "Photoacoustic Spectroscopy of β -Hematin." Samson, E. B.; Goldschmidt, B. S.; Whiteside, P. J. D.; Sudduth, A. S. M.; Custer, J. R.; Beerntsen, B.; Viator, J. A., *Journal of Optics*, **2012**, 14 (6), Article No. 065302. DOI: 10.1088/2040-8978/14/6/065302
- "Designer Silicates for Breakthrough Performances in Mycotoxin Binding." Schoeters, E., *International Poultry Production*, **2012**, 20 (1), 7-9.
- "Evaluation of Nutrient Release Profiles from Polymer Coated Fertilizers Using Fourier Transform Mid-Infrared Photoacoustic Spectroscopy." Shen, Y.-z.; Du, C.-w.; Zhou, J.-m.; Wang, H.-y.; Chen, X.-q., *Spectroscopy and Spectral Analysis*, **2012**, 32 (2), 330-333. DOI: 10.3964/j.issn.1000-0593(2012)02-0330-04
- "Fourier Transform Infrared Photoacoustic Spectroscopy Study of Physicochemical Interaction between Human Dentin and Etch-& Rinse Adhesives in a Simulated Moist Bond Technique." Ubaldini, A. L. M.; Baesso, M. L.; Sehn, E.; Sato, F.; Benetti, A. R.; Pascotto, R. C., *J Biomed Opt*, **2012**, 17 (6), Article No. 065002. DOI: 10.1117/1.jbo.17.6.065002
- "A Feature Selection Strategy for the Analysis of Spectra from a Photoacoustic Sensing System." Ulrici, A.; Seeber, R.; Calderisi, M.; Foca, G.; Uotila, J.; Carras, M.; Fiorello, A. M.; Optical Materials and Biomaterials in Security and Defence Systems Technology IX, Zamboni, R.; Kajzar, F.; Szep, A. A., Eds.; SPIE, Vol. 8545; 2012, Article No. 85450K. DOI: 10.1117/12.970432
- "Fast Determination of Nitrogen Status in Pear Leaf using Mid-Infrared Photoacoustic Spectroscopy." Zhao, H.; Li, Y.; Xie, K.; Song, X.; Dong, C.; Xu, Y., *Scientia Agricultura Sinica*, **2012**, 45 (4), 706-713.
- "Effects of Nonionic Surfactant Lauryl Alcohol Ethoxylated on Stratum corneum Alternative Model Biomembranes Evaluated by Biophysical Techniques." Baby, A. R.; Lacerda, A. C. L.; Prestes, P. S.; Velasco, M. V. R.; Kawano, Y.; Kaneko, T. M., *Latin Am J Pharm*, **2011**, 30 (7), 1396-1400.
- "Characterization of Greenhouse Soil Properties Using Mid-infrared Photoacoustic Spectroscopy." Du, C.; Deng, J.; Zhou, J.; Wang, H.; Chen, X., *Spectrosc Lett*, **2011**, 44 (5), 359-368. DOI: 10.1080/00387010.2010.545856
- "Application of Infrared Photoacoustic Spectroscopy in Soil Analysis." Du, C.; Zhou, J., *Appl Spectrosc Rev*, **2011**, 46 (5), 405-422. DOI: 10.1080/05704928.2011.570837
- "Spectra and Integrated Band Intensities of the Low Order OH Stretching Overtones in Peroxyformic Acid: An Atmospheric Molecule with Prototypical Intramolecular Hydrogen Bonding." Hazra, M. K.; Sinha, A., *J Phys Chem A*, **2011**, 115 (21), 5294-5306. DOI: 10.1021/jp112028c
- "FT-IR-cPAS—New Photoacoustic Measurement Technique for Analysis of Hot Gases: A Case Study on VOCs." Hirschmann, C. B.; Koivikko, N. S.; Raittila, J.; Tenhunen, J.; Ojala, S.; Rahkamaa-Tolonen, K.; Marbach, R.; Hirschmann, S.; Keiski, R. L., *Sensors*, **2011**, 11 (5), 5270-5289. DOI: 10.3390/s110505270
- "A Comparative Study of Carbonate Bands from Nanocrystalline Carbonated Hydroxyapatites using FT-IR Spectroscopy in the Transmission and Photoacoustic Modes." Kafak, A.; Slosarczyk, A.; Kolodziejki, W., *J Mol Struct*, **2011**, 997 (1-3), 7-14. DOI: 10.1016/j.molstruc.2011.04.013
- "Absorption Line Profile Recovery Based on Residual Amplitude Modulation and First Harmonic Integration Methods in Photoacoustic Gas Sensing." Li, L.; Arsal, N.; Stewart, G.; Thursby, G.; Culshaw, B.; Wang, Y., *Opt Commun*, **2011**, 284 (1), 312-316. DOI: 10.1016/j.optcom.2010.08.038
- "Fast Simultaneous Measurement of Multi-Gases using Quantum Cascade Laser Photoacoustic Spectroscopy." Liu, W.; Wang, L.; Li, L.; Liu, J.; Liu, F. Q.; Wang, Z., *Appl Phys B*, **2011**, 103 (3), 743-747. DOI: 10.1007/s00340-010-4298-x
- "Characterization of LiNbO₃ Single-Crystal Substrates Irradiated with Electrons." Miyazaki, H.; Morimoto, J.; Toda, K.; Onoda, S.; Ohshima, T., *Jpn J Appl Phys*, **2011**, 50 (7), Article No. 07HB07. DOI: 10.1143/JJAP.50.07HB07
- "Study of Colombian Coals using Photoacoustic Fourier Transform Infrared Spectroscopy." Orrego-Ruiz, J. A.; Cabanzo, R.; Mejia-Ospino, E., *Int J Coal Geol*, **2011**, 85 (3-4), 307-310. DOI: 10.1016/j.coal.2010.12.013
- "Characterization of Soil Organic Carbon in Drained Thaw-Lake Basins of Arctic Alaska using NMR and FTIR Photoacoustic Spectroscopy." Pedersen, J. A.; Simpson, M. A.; Bockheim, J. G.; Kumar, K., *Org Geochem*, **2011**, 42 (8), 947-954. DOI: 10.1016/j.orggeochem.2011.04.003
- "Study of Curing Process of Glass Fiber and Epoxy Resin Composite by FT-NIR, Photoacoustic Spectroscopy and Luminescence Spectroscopy." Sales, R. C. M.; Diniz, M. F.; Dutra, R. C. L.; Thim, G. P.; Dibbern-Brunelli, D., *J Mater Sci*, **2011**, 46 (6), 1814-1823. DOI: 10.1007/s10853-010-5005-3

- "Quantitative Estimation of Protein Fouling of Ultra-Filtration Membranes by Photoacoustic Spectroscopy." Segal, Y.; Linker, R.; Dosoretz, C. G., *Desalination*, **2011**, 271 (1-3), 231-235. DOI: 10.1016/j.desal.2010.12.037
- "The Combined Effects of Boron and Oil Heat Treatment on Beech and Scots Pine Wood Properties. Part 1: Boron Leaching, Thermogravimetric Analysis, and Chemical Composition." Tomak, E. D.; Hughes, M.; Yildiz, U. C.; Viitanen, H., *J Mater Sci*, **2011**, 46 (3), 598-607. DOI: 10.1007/s10853-010-4859-8
- "Adsorption of Cu(II) by Biochars Generated from Three Crop Straws." Tong, X.-j.; Li, J.-y.; Yuan, J.-h.; Xu, R.-k., *Chem Eng J*, **2011**, 172 (2-3), 828-834. DOI: 10.1016/j.cej.2011.06.069
- "Effects of Temperature on the Heterogeneous Oxidation of Sulfur Dioxide by Ozone on Calcium Carbonate." Wu, L. Y.; Tong, S. R.; Wang, W. G.; Ge, M. F., *Atmos Chem Phys*, **2011**, 11 (13), 6593-6605. DOI: 10.5194/acp-11-6593-2011
- "Adsorption of Methyl Violet from Aqueous Solutions by the Biochars Derived from Crop Residues." Xu, R.-k.; Xiao, S.-c.; Yuan, J.-h.; Zhao, A.-z., *Bioresour Technol*, **2011**, 102 (22), 10293-10298. DOI: 10.1016/j.biortech.2011.08.089
- "Characterization of the Interface of Montmorillonite-Xanthan Complex using Fourier Transform Infrared Photoacoustic Spectroscopy." Zhou, G.; Du, C.; Zhou, J.; Wang, H.; Chen, X.; Zhou, G. Q.; Du, C. W.; Zhou, J. M.; Wang, H. Y.; Chen, X. Q., *Acta Pedologica Sinica*, **2011**, 48 (4), 759-765.
- "Infrared Diode Laser Spectroscopy." Civiš, S.; Cihelka, J.; Matulková, I., *Opto-Electronics Review*, **2010**, 18 (4), 408-420. DOI: 10.2478/s11772-010-0040-9
- "Adsorption of Biodegradable Chelating Compounds on Inorganic Oxides." Dębczak, A.; Ryczkowski, J.; Patkowski, J., *Appl Surf Sci*, **2010**, 256 (17), 5449-5452. DOI: 10.1016/j.apsusc.2009.12.138
- "Depth Profiling of Soil Clay-Xanthan Complexes using Step-Scan Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Zhou, G.; Wang, H.; Chen, X.; Zhou, J.; 19th World Congress of Soil Science: Soil Solutions for a Changing World, Gilkes, R. J.; Prakongkep, N., Eds.; International Union of Soil Sciences, Vol. on DVD; 2010, 27-30.
- "Depth Profiling of Clay-Xanthan Complexes using Step-Scan Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Zhou, G.; Wang, H.; Chen, X.; Zhou, J., *J Soils Sed*, **2010**, 10 (5), 855-862. DOI: 10.1007/s11368-010-0225-3
- "Characterization of Animal Manures using Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Zhou, G.; Zhou, J.; Wang, H.; Chen, X.; Dong, Y.; Wang, H., *Bioresour Technol*, **2010**, 101 (15), 6273-6277. DOI: 10.1016/j.biortech.2010.03.010
- "Fourier Transform Infrared Photoacoustic Multicomponent Gas Spectroscopy with Optical Cantilever Detection." Hirschmann, C. B.; Uotila, J.; Ojala, S.; Tenhunen, J.; Keiski, R. L., *Appl Spectrosc*, **2010**, 64 (3), 293-297. DOI: 10.1366/000370210790918490
- "Chemical Synthesis of Poly(3-thiophene-acetic-acid)/Magnetite Nanocomposites with Tunable Magnetic Behaviour." Janáky, C.; Endrődi, B.; Kovács, K.; Timko, M.; Sági, A.; Visy, C., *Synth Met*, **2010**, 160 (1-2), 65-71. DOI: 10.1016/j.synthmet.2009.09.034
- "Molecular Analysis of Primary Vapor and Char Products during Stepwise Pyrolysis of Poplar Biomass." Jones, R. W.; Reinot, T.; McClelland, J. F., *Energy Fuels*, **2010**, 24 (9), 5199-5209. DOI: 10.1021/ef100655n
- "Depth Profiling of SBS/PET Layered Materials using Step-Scan Phase Modulation Fourier Transform Infrared Photoacoustic Spectroscopy and Two-Dimensional Correlation Analysis." Li, B. B.; Zhang, P. D., *Science China-Chemistry*, **2010**, 53 (5), 1190-1194. DOI: 10.1007/s11426-010-0063-6
- "Modeling of Infrared Gas Sensors Using a Ray Tracing Approach." Mayrwöger, J.; Hauer, P.; Reichl, W.; Schwödiauer, R.; Krutzler, C.; Jakoby, B., *IEEE Sens J*, **2010**, 10 (11), 1691-1698. DOI: 10.1109/JSEN.2010.2046033
- "Frequency-Modulated Hyperbolic Heat Transport and Effective Thermal Properties in Layered Systems." Ordonez-Miranda, J.; Alvarado-Gil, J. J., *Int J Therm Sci*, **2010**, 49 (1), 209-217. DOI: 10.1016/j.ijthermalsci.2009.07.005
- "Removal of Recalcitrant Pollutants from Wastewater." Pasiieczna-Patkowska, S.; Czech, B.; Ryczkowski, J.; Patkowski, J., *Appl Surf Sci*, **2010**, 256 (17), 5434-5438. DOI: 10.1016/j.apsusc.2009.12.132
- "Infrared Photoacoustic Spectroscopy in Catalysis and Surface Science." Ryczkowski, J., *Appl Surf Sci*, **2010**, 256 (17), 5545-5550. DOI: 10.1016/j.apsusc.2009.12.135
- "Impact of Drying on Wood Ultrastructure Observed by Deuterium Exchange and Photoacoustic FT-IR Spectroscopy." Suchy, M.; Virtanen, J.; Kontturi, E.; Vuorinen, T., *Biomacromolecules*, **2010**, 11 (2), 515-520. DOI: 10.1021/bm901268j

- "Application of Photoacoustic Infrared Spectroscopy in the Forensic Analysis of Artists' Inorganic Pigments." von Aderkas, E. L.; Barsan, M. M.; Gilson, D. F. R.; Butler, I. S., *Spectrochim Acta, Part A*, **2010**, 77 (5), 954-959. DOI: 10.1016/j.saa.2010.08.027
- "Field Inter-Comparison of Eleven Atmospheric Ammonia Measurement Techniques." von Bobruzki, K.; Braban, C. F.; Famulari, D.; Jones, S. K.; Blackall, T.; Smith, T. E. L.; Blom, M.; Coe, H.; Gallagher, M.; Ghalaieny, M.; McGillen, M. R.; Percival, C. J.; Whitehead, J. D.; Ellis, R.; Murphy, J.; Mohacsi, A.; Pogany, A.; Junninen, H.; Rantanen, S.; Sutton, M. A.; Nemitz, E., *Atmos Meas Tech*, **2010**, 3 (1), 91-112. DOI: 10.5194/amt-3-91-2010
- "Identification of Reaction Products of Phosphate Fertilizers with Soil using Chemical and FTIR-PAS Methods." Wang, T.; Wang, H. Y.; Zhou, J. M., *Agrochimica*, **2010**, 54 (3), 155-166.
- "Hydrophobicity Characterization of Polymer Coating for Controlled-Release Fertilizer Using Fourier Transform Infrared Photoacoustic Spectroscopy." Zhao, C.; Shen, Y.-Z.; Zhou, J.-M.; Du, C.-W.; Wang, H.-Y.; Chen, X.-Q., *Chinese Journal of Analytical Chemistry*, **2010**, 38 (8), 1186-1190.
- "Characterization of Magnetic Paper using Fourier Transform Infrared Spectroscopy." Chia, C. H.; Zakaria, S.; Nguyen, K. L.; Dang, V. Q.; Duong, T. D., *Mater Chem Phys*, **2009**, 113 (2-3), 768-772. DOI: 10.1016/j.matchemphys.2008.08.059
- "Laser Diode Photoacoustic and FTIR Laser Spectroscopy of Formaldehyde in the 2.3 μm and 3.5 μm Spectral Range." Cihelka, J.; Matulková, I.; Civiš, S., *J Mol Spectrosc*, **2009**, 256 (1), 68-74. DOI: 10.1016/j.jms.2009.01.017
- "Determination of Soil Properties Using Fourier Transform Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Zhou, J.; Wang, H.; Chen, X.; Zhu, A.; Zhang, J., *Vib Spectrosc*, **2009**, 49 (1), 32-37. DOI: 10.1016/j.vibspec.2008.04.009
- "A Spectroscopic Study of Au/Ce_xZr_{1-x}O₂ Catalysts." Ferreira, H. S.; Rangel, M. d. C.; Ferreira, M. L. O.; Pepe, I.; da Silva, A. F., *Brazilian Journal of Physics*, **2009**, 39 (1A), 141-145.
- "Fourier Transform Infrared Spectroscopy and Solid-State Nuclear Magnetic Resonance Studies of Octadecyl Modified Metal Oxides Obtained from Different Silane Precursors." Kailasam, K.; Natile, M. M.; Glisenti, A.; Müller, K., *J Chromatogr A*, **2009**, 1216 (12), 2345-2354. DOI: 10.1016/j.chroma.2009.01.002
- "Application of Photoacoustic Spectroscopy to Spatially Resolved, Non-Destructive Measurements of Organics Distributed in Zeolite Membranes." Ko, C. H.; Bae, J. S.; Yeum, J. H.; Kang, N.; Park, Y. D.; Kim, Y. S.; Lee, J. W.; Nair, S.; Oh, W., *Journal of Ceramic Processing Research*, **2009**, 10, S9-S13.
- "The In-Plume Emission Test Stand: An Instrument Platform for the Real-Time Characterization of Fuel-Based Combustion Emissions." Nussbaum, N. J.; Zhu, D.; Kuhns, H. D.; Mazzoleni, C.; Chang, M.-C. O.; Moosmüller, H.; Watson, J. G., *J Air Waste Manage Assoc*, **2009**, 59 (12), 1437-1445. DOI: 10.3155/1047-3289.59.12.1437
- "Arylalkane Photo-Oxidation under Visible Light and O₂ Catalyzed by Molybdenum(VI)dioxo-dibromo(4,4'-dicarboxylato-2,2'-bipyridine) Anchored on TiO₂." Páez, C. A.; Lozada, O.; Castellanos, N. J.; Martínez, F. O.; Ziarelli, F.; Agrifoglio, G.; Páez-Mozo, E. A.; Arzoumanian, H., *J Mol Catal A*, **2009**, 299 (1-2), 53-59. DOI: 10.1016/j.molcata.2008.10.020
- "Application of the FT-IR/PAS and DRS Methods for Studying Heavy Metal Ions Sorption on the Inorganic Sorbents." Rusek, P.; Hubicki, Z.; Wójcik, G.; Debczak, A., *Acta Phys Pol A*, **2009**, 116 (3), 407-409.
- "Physicochemical Characteristics of Densified Untreated and Steam Exploded Poplar Wood and Wheat Straw Grinds." Shaw, M. D.; Karunakaran, C.; Tabil, L. G., *Biosys Eng*, **2009**, 103 (2), 198-207. DOI: 10.1016/j.biosystemseng.2009.02.012
- "Cure Characterization of Carbon Fiber Reinforced Phenyl-Ethynyl Terminated Oligoamic Acid by FTIR-Photoacoustic Spectroscopy." Vijayaraghavan, R.; Scola, D. A.; Sung, C. S. P., *Composites Part A*, **2009**, 40 (12), 2054-2063. DOI: 10.1016/j.compositesa.2009.09.018
- "Photoacoustic Infrared Spectroscopy of Polymer Beads." Wen, Q.; Michaelian, K. H., *Spectrochim Acta, Part A*, **2009**, 73 (5), 823-827. DOI: 10.1016/j.saa.2009.04.004
- "Application of the FT-IR/PAS Method in Comparison of Ga(III) and In(III) Sorption on Lewatit OC-1026 and Amberlite XAD-7 Impregnated D2EHPA." Wroński, G.; Dębczak, A.; Hubicki, Z., *Acta Phys Pol A*, **2009**, 116 (3), 435-437.
- "Effects of Multi-Ion Irradiation on Microstructural Changes in Lithium Titanate." Yamaki, D.; Okubo, N.; Nakazalwa, T.; Jitsukawa, S., *J Nucl Mater*, **2009**, 386-388, 1065-1067. DOI: 10.1016/j.jnucmat.2008.12.279
- "Dispersion of Light and Heavy Pollutants in Urban Scale Models: CO₂ Laser Photoacoustic Studies."

- Zelinger, Z.; Strizík, M.; Kubát, P.; Civis, S.; Grigorová, E.; Janecková, R.; Zavila, O.; Nevrlý, V.; Herecová, L.; Bailleux, S.; Horká, V.; Ferus, M.; Skrínský, J.; Kozubková, M.; Drábková, S.; Janour, Z., *Appl Spectrosc*, **2009**, 63 (4), 430-436. DOI: 10.1366/000370209787944226
- "Wavelength- and Amplitude-Modulated Photoacoustics: Comparison of Simulated and Measured Spectra of Higher Harmonics." Angelmahr, M.; Miklós, A.; Hess, P., *Appl Opt*, **2008**, 47 (15), 2806-2812. DOI: 10.1364/AO.47.002806
- "Intra- and Interspecific Variation of Cuticular Hydrocarbon Composition in Two *Ectatomma* Species (Hymenoptera: Formicidae) Based on Fourier Transform Infrared Photoacoustic Spectroscopy." Antonialli, W. F., Jr.; Suárez, Y. R.; Izida, T.; Andrade, L. H. C.; Lima, S. M., *Gen Mol Res*, **2008**, 7 (2), 559-566. DOI: 10.4238/vol7-2gmr454
- "On-Line Vapor-Phase Generation Combined with Fourier Transform Infrared Spectrometry." Armenta, S.; Garrigues, S.; de la Guardia, M., *TrAC Trends Anal Chem*, **2008**, 27 (1), 15-23. DOI: 10.1016/j.trac.2007.10.008
- "Raman, FTIR, Photoacoustic-FTIR and Inelastic Neutron Scattering Spectra of Alkaline Earth and Lanthanide Salts of Hexahydridoruthenate(II), A_2RuH_6 , (A = Ca, Sr, Eu) and their Deuterides." Barsan, M. M.; Butler, I. S.; Gilson, D. F. R.; Moyer, R. O., Jr.; Zhou, W.; Wu, H.; Udovic, T. J., *J Phys Chem A*, **2008**, 112 (30), 6936-6938. DOI: 10.1021/jp803013h
- "PEGylation of Porous Silicon Using Click Chemistry." Britcher, L.; Barnes, T. J.; Griesser, H. J.; Prestidge, C. A., *Langmuir*, **2008**, 24 (15), 7625-7627. DOI: 10.1021/la801619v
- "Discrimination of Transgenic and Conventional Soybean Seeds by Fourier Transform Infrared Photoacoustic Spectroscopy." Caires, A. R. L.; Teixeira, M. R. O.; Suárez, Y. R.; Andrade, L. H. C.; Lima, S. M., *Appl Spectrosc*, **2008**, 62 (9), 1044-1047. DOI: 10.1366/000370208785793182
- "Transformation of Ethanol into Hydrocarbons on ZSM-5 Zeolites Modified with Iron in Different Ways." Calsavara, V.; Baesso, M. L.; Fernandes-Machado, N. R. C., *Fuel*, **2008**, 87 (8-9), 1628-1636. DOI: 10.1016/j.fuel.2007.08.006
- "Characterization of Polymer-Coated RDX and HMX Particles." da Costa Mattos, E.; Moreira, E. D.; Diniz, M. F.; Dutra, R. C. L.; da Silva, G.; Iha, K.; Teipel, U., *Propellants Explos Pyrotech*, **2008**, 33 (1), 44-50. DOI: 10.1002/prop.200800207
- "Identification of Agricultural Mediterranean Soils using Mid-Infrared Photoacoustic Spectroscopy." Du, C.; Linker, R.; Shaviv, A., *Geoderma*, **2008**, 143 (1-2), 85-90. DOI: 10.1016/j.geoderma.2007.10.012
- "Study on the Soil Mid-Infrared Photoacoustic Spectroscopy." Du, C. W.; Zhou, J. M.; Wang, H. Y.; Mang, J. B.; Zhu, A. N., *Spectroscopy and Spectral Analysis (Guang Pu Xue Yu Guang Pu Fen Xi)*, **2008**, 28 (6), 1242-1245.
- "Effect of Temperature-Pressure Cycles on Structural Properties of Epoxy-Based Composites for Printed Circuit Boards Applications." Fernandes, E. G.; Tramidi, C.; Di Gregorio, G. M.; Angeloni, G.; Chiellini, E., *J Appl Polym Sci*, **2008**, 110 (3), 1606-1612. DOI: 10.1002/app.28579
- "Mid-Infrared Gas Sensing using a Photonic Bandgap Fiber." Gayraud, N.; Kornaszewski, Ł. W.; Stone, J. M.; Knight, J. C.; Reid, D. T.; Hand, D. P.; MacPherson, W. N., *Appl Opt*, **2008**, 47 (9), 1269-1277. DOI: 10.1364/AO.47.001269
- "Identification of Functional Groups on the Surface of Modified Organic Materials using the FT-IR/PAS Method." Hofman, M.; Pasieczna-Patkowska, S.; Ryczkowski, J.; Wachowski, L., *Eur Phys J Spec Top*, **2008**, 154, 325-328. DOI: 10.1140/epjst/e2008-00569-2
- "A Study of Surface Properties of Calcium Phosphate by Means of Photoacoustic Spectroscopy (FT-IR/PAS), Potentiometric Titration and Electrophoretic Measurements." Janusz, W.; Skwarek, E.; Pasieczna-Patkowska, S.; Slosarczyk, A.; Paszkiewicz, Z.; Rapacz-Kmita, A., *Eur Phys J Spec Top*, **2008**, 154, 329-333. DOI: 10.1140/epjst/e2008-00570-9
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Ageing Composites." Jones, R. W.; McClelland, J.; In *Ageing of Composites*, Martin, R., Ed. Woodhead Publishing: Cambridge, UK, 2008; pp 160-185.
- "Organic Deposits on MCM-41 Surface after Thermal Treatment of As-Synthesized Samples." Kierys, A.; Pasieczna-Patkowska, S.; Ryczkowski, J.; Borówka, A.; Goworek, J., *Eur Phys J Spec Top*, **2008**, 154, 335-338. DOI: 10.1140/epjst/e2008-00571-8
- "FT-IR/PAS Studies of Chelates Adsorption on Anion Exchangers." Koodynska, D.; Ryczkowski, J.; Hubicki, Z., *Eur Phys J Spec Top*, **2008**, 154, 339-343. DOI: 10.1140/epjst/e2008-00572-7
- "Synthesis of Nanocrystalline TiO_2 Particles and Their Structural Characteristics." Manivannan, A.; Glaspell, G.; Dutta, P., *J Cluster Sci*, **2008**, 19 (2), 391-399. DOI: 10.1007/s10876-008-0181-x
- "Photoacoustic Infrared Spectroscopy at the Canadian Light Source: Commissioning Experiments."

- Michaelian, K. H.; May, T. E.; Hyett, C., *Rev Sci Instrum*, **2008**, 79 (1), Article No. 014903. DOI: 10.1063/1.2833825
- "The Cavity-Enhanced Absorption Spectrum of NH₃ in the Near-Infrared Region between 6850 and 7000 cm⁻¹." O'Leary, D. M.; Orphal, J.; Ruth, A. A.; Heitmann, U.; Chelin, P.; Fellows, C. E., *J Quant Spectrosc Radiat Transfer*, **2008**, 109 (6), 1004-1015. DOI: 10.1016/j.jqsrt.2007.12.007
- "Comparative Study of Photodegradation of Wood by a UV Laser and a Xenon Light Source." Pandey, K. K.; Vuorinen, T., *Polym Degrad Stab*, **2008**, 93 (12), 2138-2146. DOI: 10.1016/j.polymdegradstab.2008.08.013
- "FT-IR/PAS of the EDTA Adsorbed on Alumina with the Various Surface Areas." Pasiieczna-Patkowska, S.; Ryczkowski, J., *Eur Phys J Spec Top*, **2008**, 154, 351-355. DOI: 10.1140/epjst/e2008-00574-5
- "Recent Applications of FT-IR/PAS Studies in Catalysis." Ryczkowski, J., *Eur Phys J Spec Top*, **2008**, 154, 357-361. DOI: 10.1140/epjst/e2008-00575-4
- "Acetylation of Anisole on TPA/ZrO₂." Sakthivel, R.; Kemnitz, E., *Indian J Chem Technol*, **2008**, 15 (1), 36-40.
- "FT-IR/PAS Applications for the Structure Studies of Selected Polymers." Szajnecki, L.; Pasiieczna-Patkowska, S.; Ryczkowski, J.; Maciejewska, M., *Eur Phys J Spec Top*, **2008**, 154, 369-372. DOI: 10.1140/epjst/e2008-00577-2
- "Fourier Transform Infrared Measurement of Solid-, Liquid-, and Gas-Phase Samples with a Single Photoacoustic Cell." Uotila, J.; Kauppinen, J., *Appl Spectrosc*, **2008**, 62 (6), 655-660. DOI: 10.1366/000370208784658048
- "Mid-Infrared Photoacoustic Spectroscopy of Solids Using an External-Cavity Quantum-Cascade Laser." Wen, Q.; Michaelian, K. H., *Opt Lett*, **2008**, 33 (16), 1875-1877. DOI: 10.1364/OL.33.001875
- "Mechanism of Sorption Sulpho-Derivative Organic Chelating Agents on Strong Base Anion Exchanger Amberlite IRA-402 by FT-IR/PAS and DRS Methods." Wronski, G.; Pasiieczna-Patkowska, S.; Hubicki, Z., *Eur Phys J Spec Top*, **2008**, 154, 377-380. DOI: 10.1140/epjst/e2008-00579-0
- "The Surface Analytical Characterization of Carbon Fibers Functionalized by H₂SO₄/HNO₃ Treatment." Zhang, G.; Sun, S.; Yang, D.; Dodelet, J.-P.; Sacher, E., *Carbon*, **2008**, 46 (2), 196-205. DOI: 10.1016/j.carbon.2007.11.002
- "PAS-FTIR and FT-Raman Qualitative Characterization of Sodium Dodecyl Sulfate Interaction with an Alternative Stratum Corneum Model Membrane." Baby, A. R.; Lacerda, A. C. L.; Kawano, Y.; Velasco, M. V. R.; Kaneko, T. M., *Pharmazie*, **2007**, 62 (10), 727-731. DOI: 10.1691/ph.2007.10.7003
- "Spectroscopic Identification of Lipid, Protein and DNA Changes in Breast Cancer Tissues." Badr, Y. A.; Hassab Elnaby, S. I.; In *MTPR-06: Modern Trends in Physics Research*, AIP Conference Proceedings Vol. 888, 2007, pp 160-166.
- "Photoacoustic Fourier Transform Infrared Spectroscopic Study of Hydrogen Peroxide Bleached De-inked Pulps." Bhardwaj, N. K.; Nguyen, K. L., *Colloids Surf Physicochem Eng Aspects*, **2007**, 301 (1-3), 323-328. DOI: 10.1016/j.colsurfa.2006.12.077
- "Probing Molecular Interactions in Bone Biomaterials: Through Molecular Dynamics and Fourier Transform Infrared Spectroscopy." Bhowmik, R.; Katti, K. S.; Venna, D.; Katti, D. R., *Mater Sci Eng C*, **2007**, 27 (3), 352-371. DOI: 10.1016/j.msec.2006.05.048
- "Vibrational Spectra of Silsesquioxanes Impregnated with the Metallocene Catalyst bis(η⁵-cyclopentadienyl)zirconium(IV) dichloride." Bianchini, D.; Barsan, M. M.; Butler, I. S.; Galland, G. B.; dos Santos, J. H. Z.; Fasce, D. P.; Williams, R. J. J.; Quijada, R., *Spectrochim Acta, Part A*, **2007**, 68 (3), 956-969. DOI: 10.1016/j.saa.2007.01.009
- "Identification of Laser-Induced Lamb Waves." Castro-Colin, M.; Lopez, J. A.; Osegueda, R., *Revista Mexicana De Fisica*, **2007**, 53 (3), 12-15.
- "Determination of Lignin Content in High-Yield Kraft Pulps Using Photoacoustic Rapid Scan Fourier Transform Infrared Spectroscopy." Dang, V. Q.; Bhardwaj, N. K.; Hoang, V.; Nguyen, K. L., *Carbohydr Polym*, **2007**, 68 (3), 489-494. DOI: 10.1016/j.carbpol.2006.11.005
- "Characterization of Soils Using Photoacoustic Mid-Infrared Spectroscopy." Du, C.; Linker, R.; Shaviv, A., *Appl Spectrosc*, **2007**, 61 (10), 1063-1067. DOI: 10.1366/000370207782217743
- "Prediction of Soil Available Phosphorus using Fourier Transform Infrared Photoacoustic Spectroscopy." Du, C.-W.; Zhou, J.-M., *Chinese J Anal Chem*, **2007**, 35 (1), 119-122.
- "The Influence of the Preparation Methods and Pretreatment Conditions on the Properties of Ag-MCM-41 Catalysts." Gac, W.; Derylo-Marczewska, A.; Pasiieczna-Patkowska, S.; Popivnyak, N.; Zukocinski, G., *J Mol Catal A*, **2007**, 268 (1-2), 15-23. DOI: 10.1016/j.molcata.2006.12.002

- "UV-B Radiation Induced Effects on Human T-Lymphocytes." Giubileo, G.; Castellano, A. C.; Gaudenzi, S.; Grimaldi, P.; Pozzi, D.; Puiu, A.; ROMOPTO 2006: Eighth Conference on Optics, Vlad, V. I., Ed. SPIE, Vol. 6785; 2007, Article No. 67851H. DOI: 10.1117/12.757866
- "Highly Sensitive Electronically Modulated Photoacoustic Spectrometer for Ozone Detection." Gondal, M. A.; Yamani, Z. H., *Appl Opt*, **2007**, *46* (29), 7083-7090. DOI: 10.1364/AO.46.007083
- "*In situ* Infrared Aerosol Spectroscopy for a Variety of Nerve Agent Simulants using Flow-through Photoacoustics." Gurton, K. P.; Felton, M.; Dahmani, R.; Ligon, D., *Appl Opt*, **2007**, *46* (25), 6323-6329. DOI: 10.1364/AO.46.006323
- "Discrimination of Prostate Cancer Cells by Reflection Mode FTIR Photoacoustic Spectroscopy." Harvey, T. J.; Henderson, A.; Gazi, E.; Clarke, N. W.; Brown, M.; Faria, E. C.; Snook, R. D.; Gardner, P., *Analyst*, **2007**, *132* (4), 292-295. DOI: 10.1039/B618618A
- "FTIR Analysis of Chemical Gradients in Thermally Processed Molded Polyurethane Foam." Hatchett, D. W.; Kinyanjui, J. M.; Sapochak, L., *Journal of Cellular Plastics*, **2007**, *43* (3), 183-196. DOI: 10.1177/0021955X07076665
- "Optical, Thermal, and Structural Characterization of the Sclerotized Skeleton of Two Antipatharian Coral Species." Juárez-de la Rosa, B. A.; Ardisson, P.-L.; Azamar-Barrios, J. A.; Quintana, P.; Alvarado-Gil, J. J., *Mater Sci Eng C*, **2007**, *27* (4), 880-885. DOI: 10.1016/j.msec.2006.10.006
- "Synthesis and Characterization of Methacrylate Phospho-Silicate Hybrid for Thin Film Applications." Kannan, A. G.; Choudhury, N. R.; Dutta, N. K., *Polymer*, **2007**, *48* (24), 7078-7086. DOI: 10.1016/j.polymer.2007.09.050
- "On the Optical, Thermal, and Vibrational Properties of Nano-ZnO:Mn, A Diluted Magnetic Semiconductor." Lakshmi, P. V. B.; Ramachandran, K., *Int J Thermophys*, **2007**, *28* (4), 1353-1370. DOI: 10.1007/s10765-007-0174-2
- "Development of the Photoacoustic Rapid-Scan FT-IR-Based Method for Measurement of Ink Concentration on Printed Paper." Pan, J.; Nguyen, K. L., *Anal Chem*, **2007**, *79* (6), 2259-2265. DOI: 10.1021/ac061732y
- "Spectroscopic Studies of Alumina-Supported Nickel Catalysts Precursors: Part I. Catalysts Prepared from Acidic Solutions." Pasieczna-Patkowska, S.; Ryczkowski, J., *Appl Surf Sci*, **2007**, *253* (13), 5910-5913. DOI: 10.1016/j.apsusc.2006.12.068
- "Application of Infrared Photoacoustic Spectroscopy in Catalysis." Ryczkowski, J., *Catal Today*, **2007**, *124* (1-2), 11-20. DOI: 10.1016/j.cattod.2007.01.044
- "Catalytic Performance of Brønsted Acid Sites During Esterification of Acetic Acid with Ethyl Alcohol over Phosphotungstic Acid Supported on Silica." Said, A. E.-A. A.; Abd El-Wahab, M. M. M.; Alian, A. M., *J Chem Technol Biotechnol*, **2007**, *82* (6), 513-523. DOI: 10.1002/jctb.1704
- "Surface Defects of TPO Injected Foam Parts for Automotive Applications." Santoni, A.; Guo, M.-C.; Heuzey, M.-C.; Carreau, P. J., *Int Polym Proc*, **2007**, *22* (2), 204-212.
- "Surface-Functionalized Inorganic Nanoparticles in Miniemulsion Polymerization." Töpfer, O.; Schmidt-Naake, G., *Macromolecular Symposia*, **2007**, *248* (1), 239-248. DOI: 10.1002/masy.200750225
- "Analysis of Oxidative Stabilization of Mesophase Pitch Matrix in Carbon-Carbon Composites, with Respect to Oxygen Permeability and Crosslinking." Upadhyayula, S.; Saddawi, S.; Strieder, W., *Ind Eng Chem Res*, **2007**, *46* (9), 2907-2910. DOI: 10.1021/ie061640z
- "Protection Offered by Root-Surface Restorative Materials against Biofilm Challenge." Yip, H. K.; Guo, J.; Wong, W. H. S., *J Dent Res*, **2007**, *86* (5), 431-435. DOI: 10.1177/154405910708600508
- "Direct Determination of Mancozeb by Photoacoustic Spectrometry." Armenta, S.; Moros, J.; Garrigues, S.; de la Guardia, M., *Anal Chim Acta*, **2006**, *567* (2), 255-261. DOI: 10.1016/j.aca.2006.03.031
- "Two-Dimensional Diffraction of Plasma, Thermal, and Elastic Waves Generated by an Infrared Laser Pulse in Semiconductors." Audoin, B.; Meri, H.; Rossignol, C., *Phys Rev B*, **2006**, *74* (21), Article No. 214304. DOI: 10.1103/PhysRevB.74.214304
- "Enhancement of the Optical Properties of Poly Vinyl Alcohol by Doping with Silver Nanoparticles." Badr, Y.; Mahmoud, M. A., *J Appl Polym Sci*, **2006**, *99* (6), 3608-3614. DOI: 10.1002/app.22948
- "Determination of Carboxyl Content in High-Yield Kraft Pulps Using Photoacoustic Rapid-Scan Fourier Transform Infrared Spectroscopy." Bhardwaj, N. K.; Dang, V. Q.; Nguyen, K. L., *Anal Chem*, **2006**, *78* (19), 6818-6825. DOI: 10.1021/ac0605952
- "Investigation of Drugs Diffusion into Collodion Membranes using FTIR-ATR and Step-Scan FTIR-PAS Techniques." Bodzenta, J.; Kaźmierczak, A.; Hanh, B. D.; Neubert, R. H. H.; Wartewig, S., *Instrum Sci*

- Technol*, **2006**, *34* (1-2), 107-117. DOI: 10.1080/10739140500374112
- "Colour Formation in Poly(ethylene terephthalate) during Melt Processing." Ciolacu, C. F. L.; Choudhury, N. R.; Dutta, N. K., *Polym Degrad Stab*, **2006**, *91* (4), 875-885. DOI: 10.1016/j.polymdegradstab.2005.06.021
- "Photoacoustic Measurement of N₂O Concentrations in Ambient Air with a Pulsed Optical Parametric Oscillator." da Silva, M. G.; Miklós, A.; Falkenroth, A.; Hess, P., *Appl Phys B*, **2006**, *82* (2), 329-336. DOI: 10.1007/s00340-005-2004-1
- "Thermal and Photochemical Ageing of Epoxy Resin - Influence of Curing Agents." Delor-Jestin, F.; Drouin, D.; Cheval, P.-Y.; Lacoste, J., *Polym Degrad Stab*, **2006**, *91* (6), 1247-1255. DOI: 10.1016/j.polymdegradstab.2005.09.009
- "Extension of Two-Dimensional Global Phase Difference Correlation Analysis to Step-Scan FT-IR Photoacoustic Spectral Depth Profiling of Layered Systems." Jiang, E. Y.; Grenov, A., *J Mol Struct*, **2006**, *799* (1-3), 188-195. DOI: 10.1016/j.molstruc.2006.03.068
- "Molecular Interactions in Intercalated Organically Modified Clay and Clay-Polycaprolactam Nanocomposites: Experiments and Modeling." Katti, K. S.; Sikdar, D.; Katti, D. R.; Ghosh, P.; Verma, D., *Polymer*, **2006**, *47* (1), 403-414. DOI: 10.1016/j.polymer.2005.11.055
- "Thermal Stability of Chemically Bonded Phases on Silica Gel by Photoacoustic FT-IR Spectroscopy." Kierys, A.; Pasieczna, S.; Rykowski, J.; Goworek, J., *J Phys IV*, **2006**, *137*, 291-295.
- "Submicrosecond Dynamics of Water Explosive Boiling and Lift-Off from Laser-Heated Silicon Surfaces." Kudryashov, S. I.; Allen, S. D., *J Appl Phys*, **2006**, *100* (10), Article No. 104908. DOI: 10.1063/1.2372317
- "Parametric Generation of Multimegahertz Acoustic Oscillations in Laser-Generated Multibubble System in Bulk Water." Kudryashov, S. I.; Lyon, K.; Allen, S. D., *Appl Phys Lett*, **2006**, *88* (21), Article No. 214105. DOI: 10.1063/1.2206094
- "Hydrocarbons from Ethanol using [Fe,Al]ZSM-5 Zeolites Obtained by Direct Synthesis." Machado, N. R. C. F.; Calsavara, V.; Astrath, N. G. C.; Neto, A. M.; Baesso, M. L., *Appl Catal A*, **2006**, *311*, 193-198. DOI: 10.1016/j.apcata.2006.06.017
- "Miniature FT-IR Spectrometer for Passive and Active Sensing." Manning, C.; Gross, M.; Jennings, J.; Wuthrich, J.; Samuels, A.; Chemical and Biological Sensors for Industrial and Environmental Monitoring II, Christesen, S. D.; Sedlacek, A. J., III; Gillespie, J. B.; Ewing, K. J., Eds.; SPIE, Vol. 6378; 2006, Article No. 63780T. DOI: 10.1117/12.690078
- "Dynamic Nanomechanical Response of Nacre." Mohanty, B.; Katti, K. S.; Katti, D. R.; Verma, D., *J Mater Res*, **2006**, *21* (8), 2045-2051. DOI: 10.1557/jmr.2006.0247
- "Analytical Methods for the Determination of Alkannins and Shikonins." Papageorgiou, V. P.; Assimopoulou, A. N.; Samanidou, V. F.; Papadoyannis, I. N., *Curr Org Chem*, **2006**, *10* (5), 583-622.
- "Photoacoustic Infrared Analysis of Nickel Catalysts Precursors." Pasieczna, S.; Ryczkowski, J., *J Phys IV*, **2006**, *137*, 321-324.
- "The Fourier Transform-Infrared/Photoacoustic Spectroscopy (FT-IR/PAS) as Used to Study Adsorbent and Catalyst Surfaces." Ryczkowski, J., *Przem Chem*, **2006**, *85* (8-9), 744-747.
- "FT-IR/PAS Characteristic of the Ni-NiO/Al₂O₃ Catalyst." Ryczkowski, J.; Pasieczna, S.; Stolecki, K.; Borowiecki, T., *J Phys IV*, **2006**, *137*, 325-329.
- "Preparation and Characterization of Vanadium Oxide Deposited on Thermally Stable Mesoporous Titania." Segura, Y.; Chmielarz, L.; Kustrowski, P.; Cool, P.; Dziembaj, R.; Vansant, E. F., *J Phys Chem B*, **2006**, *110* (2), 948-955. DOI: 10.1021/jp053576p
- "A Molecular Model for ε-Caprolactam-Based Intercalated Polymer Clay Nanocomposite: Integrating Modeling and Experiments." Sikdar, D.; Katti, D. R.; Katti, K. S., *Langmuir*, **2006**, *22* (18), 7738-7747. DOI: 10.1021/la060243q
- "The Influence of the Copolymerization Conditions on the Polymer Structure. FT-IR/PAS Studies." Szajnecki, L.; Pasieczna, S.; Ryczkowski, J., *J Phys IV*, **2006**, *137*, 357-361.
- "Vibration-Rotation Fourier Transform Infrared Spectrum of the C-D and C≡C Stretching Fundamental, ν₁ and ν₂, Band Systems of Deuterated Monobromoacetylene." Vaitinen, O.; Martinez, R. Z.; Suero, P.; Isokoski, K.; Halonen, L., *J Mol Spectrosc*, **2006**, *236* (1), 16-20. DOI: 10.1016/j.jms.2005.12.003
- "FTIR Spectroscopy for Bacterial Spore Identification and Classification." Valentine, N. B.; Johnson, T. J.; Su, Y.-F.; Forrester, J. B.; Chemical and Biological Sensors for Industrial and Environmental Monitoring II, Christesen, S. D.; Sedlacek, A. J., III; Gillespie, J. B.; Ewing, K. J., Eds.; SPIE, Vol. 6378; 2006, Article No. 63780P. DOI: 10.1117/12.686232

- "Experimental Investigation of Interfaces in Hydroxyapatite/Polyacrylic Acid/Polycaprolactone Composites using Photoacoustic FTIR Spectroscopy." Verma, D.; Katti, K.; Katti, D., *Journal of Biomedical Materials Research Part A*, **2006**, 77A (1), 59-66. DOI: 10.1002/jbm.a.30592
- "Photoacoustic FTIR Spectroscopic Study of Undisturbed Nacre from Red Abalone." Verma, D.; Katti, K.; Katti, D., *Spectrochim Acta, Part A*, **2006**, 64 (4), 1051-1057. DOI: 10.1016/j.saa.2005.09.014
- "Investigation of Platinum(IV) Ions Sorption on Some Anion Exchangers by using Photoacoustic and DRS Methods." Wojcik, G.; Pasieczna, S.; Hubicki, Z.; Rykowski, J., *J Phys IV*, **2006**, 137, 375-379.
- "Quantitative Vibrational Spectrometry in the 21st Century: A Scientometric Evaluation." Armenta, S.; Garrigues, S.; de la Guardia, M., *Spectrosc Lett*, **2005**, 38 (6), 665-675. DOI: 10.1080/00387010500315751
- "2D Radiation of Acoustic Waves Generated by an IR Laser Pulse in Anisotropic Semiconductors." Audoin, B.; Meri, H.; Rossignol, C., *J Phys IV*, **2005**, 125, 327-330.
- "Observation of Large Photoacoustic Signal Phase Changes during a Diffusion Process." Bajic, S. J.; Jones, R. W.; McClelland, J. F., *Appl Spectrosc*, **2005**, 59 (11), 1420-1426. DOI: 10.1366/000370205774783142
- "CH-Stretching Overtone Spectra of a Fast Rotating Methyl Group: 2-CH₃ and 2-CHD₂ Pyridines." Cavagnat, D.; Lespade, L., *J Phys Chem A*, **2005**, 109 (18), 4062-4072. DOI: 10.1021/jp044399f
- "Infrared Evanescent Field Sensing with Quantum Cascade Lasers and Planar Silver Halide Waveguides." Charlton, C.; Katzir, A.; Mizaikoff, B., *Anal Chem*, **2005**, 77 (14), 4398-4403. DOI: 10.1021/ac048189a
- "Effect of Solvent-to-Bitumen Ratio on the Pyrolysis Properties of Precipitated Athabasca Asphaltenes." Friesen, W. I.; Michaelian, K. H.; Long, Y. C.; Dabros, T., *Energy Fuels*, **2005**, 19 (3), 1109-1115. DOI: 10.1021/ef040073u
- "In situ Measurement of the Infrared Absorption and Extinction of Chemical and Biologically Derived Aerosols using Flow-through Photoacoustics." Gurton, K. P.; Dahmani, R.; Ligon, D.; Bronk, B. V., *Appl Opt*, **2005**, 44 (19), 4096-4101. DOI: 10.1364/AO.44.004096
- "Applications of FTIR in Solid-Phase Organic Synthesis." Huang, Q.; Long, Q.; Zheng, B. Z., *Progress in Chemistry*, **2005**, 17 (5), 889-896.
- "Mechanical and Thermal Properties of Drawn Iodine Doped Polypropylene Films." Karanja, P. K., *J Polym Mater*, **2005**, 22 (4), 369-375.
- "Feasibility Study of Ventilation Rate Measurement by Spatial Mean Concentration by Open Path Fourier Transform Infrared Spectroscopy." Kumagai, K.; Kurabuchi, T.; Noguchi, M.; Endo, T.; Hirano, T.; Kaneko, D.; Hara, S.; Yanagisawa, Y.; In *Indoor Air 2005: Proceedings of the 10th International Conference On Indoor Air Quality and Climate, Vols 1-5, 2005*; pp 3244-3248.
- "Modification of MCM-48-, SBA-15-, MCF-, and MSU-Type Mesoporous Silicas with Transition Metal Oxides using the Molecular Designed Dispersion Method." Kustrowski, P.; Chmielarz, L.; Dziembaj, R.; Cool, P.; Vansant, E. F., *J Phys Chem B*, **2005**, 109 (23), 11552-11558.
- "Obtaining Hydrocarbons from Ethanol over Iron-Modified ZSM-5 Zeolites." Machado, N. R. C. F.; Calsavara, V.; Astrath, N. G. C. A.; Matsuda, C. K.; Paesano, A., Jr.; Baesso, M. L., *Fuel*, **2005**, 84 (16), 2064-2070. DOI: 10.1016/j.fuel.2005.05.001
- "Thermal Dissolution of Eu²⁺ Suzuki Phase Nanostructures in KBr Crystals Monitored by Pulsed Photoacoustic and Photoluminescence Techniques." Mejía-Uriarte, E. V.; Camarillo, E.; Hernández, A. J.; Navarrete, M.; Villagrán-Muniz, M.; Murrieta, S. H., *Opt Mater*, **2005**, 27 (7), 1316-1319. DOI: 10.1016/j.optmat.2004.11.030
- "Surface Modification of Bioceramics by Grafting of Tailored Ally Phosphonic Acid." Phillips, M. J.; Duncanson, P.; Wilson, K.; Darr, J. A.; Griffiths, D. V.; Rehman, I., *Advances in Applied Ceramics*, **2005**, 104 (5), 261-267. DOI: 10.1179/174367605X62436
- "Blind Source Separation of Photoacoustic Depth Profiles into Independent Components." Pichler, A.; Sowa, M. G., *Appl Spectrosc*, **2005**, 59 (2), 164-172. DOI: 10.1366/0003702053084990
- "Independent Component Analysis of Photoacoustic Depth Profiles." Pichler, A.; Sowa, M. G., *J Mol Spectrosc*, **2005**, 229 (2), 231-237. DOI: 10.1016/j.jms.2004.09.007
- "Blind Phase Projection as an Effective Means of Recovering Pure Component Spectra from Phase Modulated Photoacoustic Spectra." Pichler, A.; Sowa, M. G., *Vib Spectrosc*, **2005**, 39 (2), 163-168.
- "In-situ Photo-Polymerization Study of Si-(bis-GMA)/TEGDMA by Correlations of PA Signals." Rivera, F.; Navarrete, M.; Vera-Graziano, R.; Sobral, H., *J Phys IV*, **2005**, 125, 761-763.
- "IR Studies of EDTA Alkaline Salts Interaction with the Surface of Inorganic Oxides." Ryczkowski, J., *Appl Surf Sci*, **2005**, 252 (3), 813-822.

- "Temperature Removal of Templating Agent from MCM-41 Silica Materials." Ryczkowski, J.; Goworek, J.; Gac, W.; Pasieczna, S.; Borowiecki, T., *Thermochim Acta*, **2005**, *434* (1-2), 2-8.
- "CH-Stretching Overtone Spectroscopy of 1,1,1,2-Tetrafluoroethane." Saar, B. G.; Steeves, A. H.; Thoman, J. W.; Howard, D. L.; Schofield, D. P.; Kjaergaard, H. G., *J Phys Chem A*, **2005**, *109* (24), 5323-5331. DOI: 10.1021/jp058060k
- "Composite Polymer Particles with a Graded Resin Composition by Suspension Polymerization." Sawatari, N.; Fukuda, M.; Taguchi, Y.; Tanaka, M., *J Appl Polym Sci*, **2005**, *97* (2), 682-690. DOI: 10.1002/app.21823
- "Conformational Order of n-Alkyl Modified Silica Gels as Evaluated by Fourier Transform Infrared Spectroscopy." Srinivasan, G.; Neumann-Singh, S.; Müller, K., *J Chromatogr A*, **2005**, *1074* (1-2), 31-41. DOI: 10.1016/j.chroma.2005.03.056
- "Spectroscopic Evaluation of the Surface Quality of Apple." Veraverbeke, E. A.; Lammertyn, J.; Nicolai, B. M.; Irudayaraj, J., *J Agric Food Chem*, **2005**, *53* (4), 1046-1051. DOI: 10.1021/jf0486848
- "Photoluminescence of Highly Porous Nanostructured Si-Based Thin Films Deposited by Pulsed Laser Ablation." Yang, D.-Q.; Ethier, V.; Sacher, E.; Meunier, M., *J Appl Phys*, **2005**, *98* (2), Article No. 024310. DOI: 10.1063/1.1985971
- "Photoacoustic Fourier Transform Infrared Spectroscopy of Nanoporous SiO_x/Si Thin Films with Varying Porosities." Yang, D.-Q.; Meunier, M.; Sacher, E., *J Appl Phys*, **2005**, *98* (11), Article No. 114310. DOI: 10.1063/1.2138376
- "Functionalization of Multiwalled Carbon Nanotubes by Mild Aqueous Sonication." Yang, D.-Q.; Rochette, J.-F.; Sacher, E., *J Phys Chem B*, **2005**, *109* (16), 7788-7794. DOI: 10.1021/jp045147h
- "Spectroscopic Evidence for π - π Interaction between Poly(diallyl dimethylammonium) Chloride and Multiwalled Carbon Nanotubes." Yang, D.-Q.; Rochette, J.-F.; Sacher, E., *J Phys Chem B*, **2005**, *109* (10), 4481-4484. DOI: 10.1021/jp044511+
- "Study of the Diffusion of an Emulsion in the Human Skin by Pulsed Photoacoustic Spectroscopy: Experiment and Numerical Simulation." Benamar, N.; Lahjomri, F.; Chatri, E.; Leblanc, R. M., *European Physical Journal-Applied Physics*, **2004**, *28* (3), 375-381. DOI: 10.1051/epjap:2004162
- "Investigation of Ketoconazole Diffusion into Collodion Membranes Using Step-Scan FTIR-PAS Technique." Bodzenta, J.; Hanh, B. D.; Kazmierczak, A.; Neubert, R. H. H.; Wartewig, S., *J Phys IV*, **2004**, *117*, 13-16. DOI: 10.1051/jp4:2004117003
- "In-Plant Performance Comparison of Fourier Transform and Photoacoustic Infra-Red PFC Monitors." Dando, N. R.; Xu, W. Z.; Espinoza-Nava, L.; In *Light Metals 2004*; Light Metals Symposium at the 133rd TMS Annual Meeting, Tabereaux, A. T., Ed. Minerals, Metals and Materials Society, 2004, 381-385.
- "Polarized FT-IR Photoacoustic Spectroscopy on Polymer Fibers." Eichhorn, K.-J.; Adam, G., *Macromolecular Symposia*, **2004**, *205* (1), 105-116. DOI: 10.1002/masy.200450110
- "Measurement of Ammonia Emissions using Various Techniques in a Comparative Tunnel Study." Emmenegger, L.; Mohn, J.; Sigrist, M.; Marinov, D.; Steinemann, U.; Zumsteg, F.; Meier, M., *Int J Environ Pollut*, **2004**, *22* (3), 326-341.
- "Position Determination of an Acoustic Burst Along a Sagnac Interferometer." Hoffman, P. R.; Kuzyk, M. G., *Journal of Lightwave Technology*, **2004**, *22* (2), 494-498. DOI: 10.1109/JLT.2004.824455
- "FT-IR Photoacoustic Spectroscopy Applied to the Curing and Aging of Composites." Jones, R. W.; Sweterlitsch, J. J.; Wagner, A. J.; McClelland, J. F.; Hsu, D. K.; Polis, D. L.; Sovinski, M. F.; In *Review of Progress in Quantitative Nondestructive Evaluation, Volume 24B*; 31st Annual Review of Progress in Quantitative Nondestructive Evaluation, Thompson, D. O.; Chimenti, D. B., Eds.; AIP, Vol. 760; 2004, 1094-1099. DOI: 10.1063/1.1916794
- "Estimation of Schottky Contacts to Porous Si by Photoacoustic Spectroscopy." Kawahara, T.; Funaki, S.; Okamoto, M.; Inoue, Y.; Tahira, K.; Okamoto, Y.; Morimoto, J., *Jpn J Appl Phys, Part 1*, **2004**, *43* (5B), 2932-2935. DOI: 10.1143/JJAP.43.2932
- "Effect of Calcination on Structure and Catalytic Activity of Nanoparticle Iron Oxide by FTIR-Photoacoustic Spectroscopy." Li, P.; Zhang, W. J.; Rasouli, F., *Abstracts of Papers of the American Chemical Society*, **2004**, *228*, U538-U538.
- "Thermal Characterization of Agar Encapsulated in TiO₂ Sol-Gel." Lopez, T.; Picquart, M.; Aguirre, G.; Arriola, G.; Freile, Y.; Aguilar, D. H.; Quintana, P.; Alvarado-Gil, J. J.; Vargas-Luna, F. M., *Int J Thermophys*, **2004**, *25* (5), 1483-1493. DOI: 10.1007/s10765-004-5753-x
- "Synthesis and Spectral Properties of L-Amino Acid Tailed Porphyrin and their Zinc(II) Complexes." Luo, G. T.; Teng, L. L.; Lai, X. Q.; Li, L., *Spectroscopy and Spectral Analysis (Guang Pu Xue Yu Guang Pu Fen*

- Xi*, **2004**, *24* (2), 173-176.
- "Signal Processing in Photoacoustic Detection of Phase Transitions by Means of the Autospectra Correlation-Based Method: Evaluation with Ceramic BaTiO₃." Mejía-Uriarte, E. V.; Navarrete, M.; Villagrán-Muniz, M., *Rev Sci Instrum*, **2004**, *75* (9), 2887-2891. DOI: 10.1063/1.1781365
- "Advances in Two-Dimensional Correlation Spectroscopy." Noda, I., *Vib Spectrosc*, **2004**, *36* (2), 143-165. DOI: 10.1016/j.vibspec.2003.12.016
- "Spectroscopy in Carbon Deposits Characterization." Pasieczna, S.; Ryczkowski, J.; Borowiecki, T.; Stofecki, K., *J Phys IV*, **2004**, *117*, 41-46. DOI: 10.1051/jp4:2004117007
- "Using the Linearization Approach for Synchronizing the Phase of Photoacoustic Reference and Sample Data." Pichler, A.; Sowa, M. G., *Appl Spectrosc*, **2004**, *58* (10), 1228-1235. DOI: 10.1366/0003702042335975
- "Supported Sulfated Zirconia Catalysts and their Properties." Prescott, H. A.; Wloka, M.; Kemnitz, E., *J Mol Catal A*, **2004**, *223* (1-2), 67-74. DOI: 10.1016/j.molcata.2003.11.037
- "Ruthenium Red Interaction with Alumina Surface - FT-IR/PAS Studies." Ryczkowski, J., *Vib Spectrosc*, **2004**, *34* (2), 247-252. DOI: 10.1016/j.vibspec.2003.11.014
- "FT-IR/PAS in Analysis of CD Discs." Ryczkowski, J.; Pasieczna, S.; Peregryn, B., *J Phys IV*, **2004**, *117*, 65-72. DOI: 10.1051/jp4:2004117010
- "WO₃/ZrO₂: A Potential Catalyst for the Acetylation of Anisole." Sakthivel, R.; Prescott, H.; Kemnitz, E., *J Mol Catal A*, **2004**, *223* (1-2), 137-142. DOI: 10.1016/j.molcata.2003.11.040
- "Synthesis and Fourier Transform Infrared Photoacoustic Spectroscopy of tetra(p-stearyloyloxyphenyl) Porphyrin Complexes." Shi, Y. H.; Yahiro, N.; Liu, W.; Shi, T. S., *Chemical Journal of Chinese Universities-Chinese*, **2004**, *25* (7), 1194-1198.
- "Prediction of Interlaminar Shear Strength of a Thermally Aged Carbon/Epoxy Composite Material by Fourier Transform Infrared Photoacoustic Spectroscopy." Sweterlitsch, J. J.; Jones, R. W.; Hsu, D. K.; McClelland, J. F., *Appl Spectrosc*, **2004**, *58* (12), 1420-1423. DOI: 10.1366/0003702042641407
- "Infrared Optoacoustic Spectroscopy of CHD₂OH around 10R and 10P CO₂ Laser Lines." Viscovini, R. C.; Cruz, F. C.; Scalabrin, A.; Pereira, D., *International Journal of Infrared and Millimeter Waves*, **2004**, *25* (2), 257-275. DOI: 10.1023/B:IJIM.0000017898.47497.c8
- "Observation of the Microstructural Changes in Lithium Titanate by Multi-Ion Irradiation." Yamaki, D.; Nakazawa, T.; Tanifuji, T.; Aruga, T.; Jitsukawa, S.; Hojou, K., *J Nucl Mater*, **2004**, *329-333* (Part 2), 1279-1282. DOI: 10.1016/j.jnucmat.2004.04.231
- "Depth Profiling of Weathered Tropical Wood using Fourier Transform Infrared Photoacoustic Spectroscopy." Yamauchi, S.; Sudiyani, Y.; Imamura, Y.; Doi, S., *J Wood Sci*, **2004**, *50* (5), 433-438. DOI: 10.1007/s10086-003-0582-2
- "Solid-Phase Synthesis of Modified Oligopeptides via Passerini Multicomponent Reaction." Basso, A.; Banfi, L.; Riva, R.; Piaggio, P.; Guanti, G., *Tetrahedron Lett*, **2003**, *44* (11), 2367-2370. DOI: 10.1016/S0040-4039(03)00238-7
- "Hydrogen Bonding Interactions of Benzylidene Type Schiff Bases Studied by Vibrational Spectroscopic and Computational Methods." Berkesi, O.; Kortvelyesi, T.; Hetenyi, C.; Nemeth, T.; Palinko, I., *Phys Chem Chem Phys*, **2003**, *5* (10), 2009-2014. DOI: 10.1039/b301107k
- "Photoacoustic FT-IR Study of Weathered Stockpiled Coking Coals." Cimadevilla, J. L. G.; Alvarez, R.; Pis, J. J., *Vib Spectrosc*, **2003**, *31* (1), 133-141. DOI: 10.1016/S0924-2031(02)00127-3
- "Dynamic Infrared Spectroscopy with a Step-Scan FT-IR for the Characterization of Polymers." Eichhoff, U.; Simon, A.; XVI International Conference on Spectroscopy of Molecules and Crystals, Puchkovska, G. O.; Gavrilko, T. A.; Lizengevich, S. A., Eds.; SPIE, Vol. 5507; 2003, 396-402. DOI: 10.1117/12.570020
- "Relationships among Loss-on-Ignition and Unburned Carbons, and the FTIR Photoacoustic Spectra of Fly Ashes." Fan, M. H.; Brown, R. C.; Nomura, M.; Zhuang, Y. H., *Int J Environ Pollut*, **2003**, *19* (3), 301-309. DOI: 10.1504/IJEP.2003.003311
- "FTIR Transmission and Photoacoustic Spectroscopy for the Statistical Identification of Bacteria." Foster, N. S.; Valentine, N. B.; Thompson, S. E.; Johnson, T. J.; Amonette, J. E.; Conference on Chemical and Biological Point Sensors for Homeland Defense, Sedlacek, A. J.; Cjristesen, S. D.; Colton, R.; VoDinh, T., Eds.; SPIE, Vol. 5269; 2003, 172-182. DOI: 10.1117/12.519199
- "Absolute Line Intensities in the $\nu_1 + 3\nu_3$ Band of ¹²C₂H₂ by Laser Photoacoustic Spectroscopy and Fourier Transform Spectroscopy." Herregodts, F.; Kerrinckx, E.; Huet, T. R.; Vander Auwera, J., *Mol Phys*, **2003**, *101* (23-24), 3427-3438. DOI: 10.1080/00268970310001632426
- "Quantitative Examination of Polymethyl Methacrylate Graft Polybisphenol-A-carbonate Copolymer by

- Photoacoustic Spectroscopy." Joshi, S. K.; Kapil, J. C.; Rai, A. K.; Zaidi, M. G. H., *Physica Status Solidi A-Applied Research*, **2003**, 199 (2), 321-328. DOI: 10.1002/pssa.200306640
- "Infrared Spectroscopic Analysis for Agricultural Materials and its Application." Kameoka, T.; Hashimoto, A., *Agricultural Information Research*, **2003**, 12 (3), 167-188.
- "Conductivity Model and Photoacoustic FT-IR Surface Depth Profiling of Heterogeneous Polymers." Katti, K. S.; Urban, M. W., *Polymer*, **2003**, 44 (11), 3319-3325 & Erratum p 4755. DOI: 10.1016/S0032-3861(03)00187-3
- "Study of the Diffusion of Some Emulsions in the Human Skin by Pulsed Photoacoustic Spectroscopy." Lahjomri, F.; Benamar, N.; Chatri, E.; Leblanc, R. M., *Physics in Medicine and Biology*, **2003**, 48 (16), 2729-2738. DOI: 10.1088/0031-9155/48/16/311
- "Fourier Transform Infrared Photoacoustic Spectra of Transition Metal Complexes of meso-tetra-(4-N-myristyloxyphenyl)porphyrin." Liu, W.; Shi, Y. H.; Shi, T. S., *Abstracts of Papers of the American Chemical Society*, **2003**, 226, U375-U375.
- "Fourier Transform Infrared Photoacoustic Spectra of Transition Metal Complexes of meso-tetra(4-lauroyloxyphenyl)porphyrin." Liu, W.; Shi, Y. H.; Wang, C.; Shi, T. S., *Abstracts of Papers of the American Chemical Society*, **2003**, 225, U99-U99.
- "Structural and Acidic Characteristics of Cu-Ni-Modified Acid-Leached Mordenites." Mohamed, M. M., *J Colloid Interface Sci*, **2003**, 265 (1), 106-114. DOI: 10.1016/S0021-9797(03)00075-4
- "Investigation of Sensitizer Adsorption and the Influence of Protons on Current and Voltage of a Dye-Sensitized Nanocrystalline TiO₂ Solar Cell." Nazeeruddin, M. K.; Humphry-Baker, R.; Liska, P.; Gratzel, M., *J Phys Chem B*, **2003**, 107 (34), 8981-8987. DOI: 10.1021/jp022656f
- "Acoustic Mode Suppression in an Off-Axially Coupled Resonant Cell for Laser Photoacoustic Spectroscopy." Nukihara, K.; Izuhara, I.; Sokabe, N., *Rev Sci Instrum*, **2003**, 74 (1), 316-318. DOI: 10.1063/1.1515905
- "Infrared Photoacoustic Spectroscopy - Advantages and Disadvantages in Surface Science and Catalysis Research." Pasieczna, S.; Ryczkowski, J., *J Phys IV*, **2003**, 109, 65-71. DOI: 10.1051/jp4:20030653
- "Deposition of Gold Nanoparticles on Silica Spheres: A Sonochemical Approach." Pol, V. G.; Gedanken, A.; Calderon-Moreno, J., *Chem Mater*, **2003**, 15 (5), 1111-1118. DOI: 10.1021/cm021013+
- "Recent Applications of FT-IR/PAS in Surface Science." Ryczkowski, J.; Pasieczna, S., *J Phys IV*, **2003**, 109, 79-88. DOI: 10.1051/jp4:20030655
- "Carbon Mass Determinations during the AIDA Soot Aerosol Campaign 1999." Saathoff, H.; Naumann, K. H.; Schnaiter, M.; Schock, W.; Weingartner, E.; Baltensperger, U.; Kramer, L.; Bozoki, Z.; Poschl, U.; Niessner, R.; Schurath, U., *J Aerosol Sci*, **2003**, 34 (10), 1399-1420. DOI: 10.1016/S0021-8502(03)00365-3
- "Synthesis, Characterization, and Catalytic Activity of SO₄/Zr_{1-x}Sn_xO₂." Sakthivel, R.; Prescott, H. A.; Deutsch, J.; Lieske, H.; Kemnitz, E., *Appl Catal A*, **2003**, 253 (1), 237-247. DOI: 10.1016/S0926-860X(03)00523-4
- "Characterization of Erucamide Profiles in LLDPE Films: Depth-Profiling Attempts using FTIR Photoacoustic Spectroscopy and Raman Microspectroscopy." Sankhe, S. Y.; Janorkar, A. V.; Hirt, D. E., *Journal of Plastic Film and Sheeting*, **2003**, 19 (1), 16-29. DOI: 10.1177/875608703035509
- "Resonant Photoacoustic Gas Sensing by PC-Based Audio Detection." Santiago, G.; Slezak, V.; Peuriot, A. L., *Appl Phys B*, **2003**, 77 (4), 463-465. DOI: 10.1007/s00340-003-1263-y
- "Signal Processing in Pulsed Photoacoustic Detection of Traces by Means of a Fast Fourier Transform-Based Method." Slezak, V., *Rev Sci Instrum*, **2003**, 74 (1), 642-644. DOI: 10.1063/1.1520320
- "Intracavity Absorption Spectroscopy with Thulium-Doped Fibre Laser." Stark, A.; Correia, L.; Teichmann, M.; Salewski, S.; Larsen, C.; Baev, V. M.; Toschek, P. E., *Opt Commun*, **2003**, 215 (1-3), 113-123. DOI: 10.1016/S0030-4018(02)02188-0
- "Infrared Spectroscopic Investigations of Weathering Effects on the Surface of Tropical Wood." Sudiyani, Y.; Imamura, Y.; Doi, S.; Yamauchi, S., *J Wood Sci*, **2003**, 49 (1), 86-92. DOI: 10.1007/s100860300014
- "Identification of Bacterial Spores using Statistical Analysis of Fourier Transform Infrared Photoacoustic Spectroscopy Data." Thompson, S. E.; Foster, N. S.; Johnson, T. J.; Valentine, N. B.; Amonette, J. E., *Appl Spectrosc*, **2003**, 57 (8), 893-899. DOI: 10.1366/000370203322258832
- "Optimization of a Microphone for Photoacoustic Spectroscopy." Wilcken, K.; Kauppinen, J., *Appl Spectrosc*, **2003**, 57 (9), 1087-1092. DOI: 10.1366/00037020360695946

- "Photoacoustic Spectroscopy Study on Relaxation Process of Neodymium Complexes." Yu, X. J.; Song, H. Y.; Su, Q. D., *J Mol Struct*, **2003**, 644 (1-3), 119-123. DOI: 10.1016/S0022-2860(02)00467-2
- "Study on Dihydrated Praseodymium Spectra with Broad Wavelength Range Acetylacetonate by Photoacoustic." Yu, X. J.; Wu, R. H.; Song, H. Y.; Su, Q. D., *Journal of Rare Earths*, **2003**, 21 (2), 135-138.
- "Pressure Shifts and Pressure Broadening of the B and Gamma Bands of Oxygen." Barnes, J. E.; Hays, P. B., *J Mol Spectrosc*, **2002**, 216 (1), 98-104. DOI: 10.1006/jmsp.2002.8689
- "Chemical Compositions of Hardwood and Softwood Pulps Employing Photoacoustic Fourier Transform Infrared Spectroscopy in Combination with Partial Least-Squares Analysis." Bjarnestad, S.; Dahlman, O., *Anal Chem*, **2002**, 74 (22), 5851-5858. DOI: 10.1021/ac025926z
- "Spectral Analysis in Nanometer Material Science." Chen, W.; Sun, S.-g., *Spectroscopy and Spectral Analysis (Guang Pu Xue Yu Guang Pu Fen Xi)*, **2002**, 22 (3), 504-510.
- "Graft Copolymerization Studies. III. Methyl Methacrylate onto Polypropylene and Polyethylene Terephthalate." Dokolas, P.; Qiao, G. G.; Solomon, D. H., *J Appl Polym Sci*, **2002**, 83 (4), 898-915. DOI: 10.1002/app.10134
- "¹³C NMR Study of the Solution Chemistry of Barium Titanium Citrate Gels Prepared Using the Pechini Process." Fang, T. T.; Wu, M. S.; Tsai, J. D., *J Am Ceram Soc*, **2002**, 85 (12), 2984-2988. DOI: 10.1111/j.1151-2916.2002.tb00567.x
- "XPS Study of the Changes during the Service Life of Polyester Powder Coatings." Haverkamp, R. G.; Siew, D. C. W.; Barton, T. F., *Surf Interface Anal*, **2002**, 33 (4), 330-334. DOI: 10.1002/sia.1215
- "Depth Profiling of a Heterogeneous Food-Packaging Model Using Step-Scan Fourier Transform Infrared Photoacoustic Spectroscopy." Irudayaraj, J.; Yang, H., *J Food Eng*, **2002**, 55 (1), 25-33. DOI: 10.1016/S0260-8774(01)00225-4
- "Differentiation and Detection of Microorganisms using Fourier Transform Infrared Photoacoustic Spectroscopy." Irudayaraj, J.; Yang, H.; Sakhamuri, S., *J Mol Struct*, **2002**, 606 (1-3), 181-188. DOI: 10.1016/S0022-2860(01)00869-9
- "Depth-Profile of Photo-Oxidation of Polyoctenamer." Kumar, A.; Commereuc, S.; Gonon, L.; Verney, V., *Polym Degrad Stab*, **2002**, 75 (3), 509-516. DOI: 10.1016/S0141-3910(01)00254-3
- "Laser Photoacoustic Spectroscopy of OCS in the Region 10 890-14 000 cm⁻¹." Lecoutre, M.; Bachir, I. H.; Huet, T. R.; Fayt, A., *J Mol Spectrosc*, **2002**, 216 (2), 472-480. DOI: 10.1006/jmsp.2002.8624
- "Application of FTIR Methodologies of Transmission and Photoacoustic to the Characterization of Highly Energetic Materials - Part II." Mattos, E. D.; Vigano, I.; Dutra, R. D. L.; Diniz, M. F.; Iha, K., *Quim Nova*, **2002**, 25 (5), 722-728.
- "Studies on Sulphated Zirconia: Synthesis, Physico-Chemical Characterisation and n-Butane Isomerisation Activity." Mishra, H. K.; Parida, K. M., *Appl Catal A*, **2002**, 224 (1-2), 179-189. DOI: 10.1016/S0926-860X(01)00822-5
- "Opto-Ultrasonic System for Generation of Ultrasound and Optical Detection." Mobley, J.; Vo-Dinh, T.; 4th Conference on Biomedical Diagnostic, Guidance, and Surgical-Assist Systems, VoDinh, T.; Benaron, D. A.; Grundfest, W. S., Eds.; SPIE, Vol. 4615; 2002, 173-179. DOI: 10.1117/12.466645
- "High-Resolution Infrared and Laser Photoacoustic Spectroscopy of Monochloroacetylene." Nela, M.; Niskanen, K.; Vaittinen, O.; Halonen, L.; Burger, H.; Polanz, O., *Mol Phys*, **2002**, 100 (5), 655-665. DOI: 10.1080/00268970110101932
- "FTIR-PAS Study of Light-Induced Changes in the Surface of Acetylated or Polyethylene Glycol-Impregnated Wood." Ohkoshi, M., *J Wood Sci*, **2002**, 48 (5), 394-401. DOI: 10.1007/BF00770699
- "Self-Assembly of Carboxyalkylphosphonic Acids on Metal Oxide Powders." Pawsey, S.; Yach, K.; Reven, L., *Langmuir*, **2002**, 18 (13), 5205-5212. DOI: 10.1021/la015749h
- "Solvent, Temperature and Concentration Effects on the Adsorption of Poly(n-butyl methacrylate) on Alumina from Solutions." Pekel, N.; Guven, O., *Turkish Journal of Chemistry*, **2002**, 26 (2), 221-227.
- "Fourier Transform Infrared Photoacoustic Studies of the Adsorption Behavior of Poly(2-hydroxypropyl methacrylate) at Solid-Liquid Interface." Pekel, N.; Guven, O., *J Appl Polym Sci*, **2002**, 85 (13), 2750-2756. DOI: 10.1002/app.10741
- "Internal Methyl Rotation in the CH Stretching Overtone Spectra of ortho-, meta-, and para-Xylene." Rong, Z. M.; Kjaergaard, H. G., *J Phys Chem A*, **2002**, 106 (26), 6242-6253. DOI: 10.1021/jp013838x
- "Direct-on-Filter Analysis of Crystalline Silica using Photoacoustic Fourier Transform-Infrared Spectroscopy." Schwerha, D. J.; Orr, C.-S.; Chen, B. T.; Soderholm, S. C., *Anal Chim Acta*, **2002**, 457

- (2), 257-264. DOI: 10.1016/S0003-2670(02)00023-5
- "Controlled Deposition of Iron Oxide on the Surface of Zirconia by the Molecular Designed Dispersion of Fe(acac)₃: A Spectroscopic Study." Van Der Voort, P.; van Welzenis, R.; de Ridder, M.; Brongersma, H. H.; Balthes, M.; Mathieu, M.; van de Ven, P. C.; Vansant, E. F., *Langmuir*, **2002**, *18* (11), 4420-4425. DOI: 10.1021/la025679u
- "Effect of Electron Density on Shock Wave Propagation in Optically Pumped Plasmas." White, A. R.; Palm, P.; Plonjes, E.; Subramaniam, V. V.; Adamovich, I. V., *J Appl Phys*, **2002**, *91* (5), 2604-2610. DOI: 10.1063/1.1435829
- "Rapid Determination of Vitamin C by NIR, MIR and FT-Raman Techniques." Yang, H.; Irudayaraj, J., *J Pharm Pharmacol*, **2002**, *54* (9), 1247-1255. DOI: 10.1211/002235702320402099
- "Step-scan Photoacoustic Fourier Transform and X-rays Photoelectron Spectroscopy of Oil Sands Fine Tailings: New Structural Insights." Bensebaa, F.; Majid, A.; Deslandes, Y., *Spectrochim Acta, Part A*, **2001**, *57* (13), 2695-2702. DOI: 10.1016/S1386-1425(01)00460-7
- "Respiration in Dormant and Non-Dormant Bitterbrush Seeds." Booth, D. T.; Sowa, S., *J Arid Environ*, **2001**, *48* (1), 35-39. DOI: 10.1006/jare.2000.0737
- "Analysis of the Ethidium Bromide Bound to DNA by Photoacoustic and FTIR Spectroscopy." Bugs, M. R.; Cornélio, M. L., *Photochem Photobiol*, **2001**, *74* (4), 512-520. DOI: 10.1562/0031-8655(2001)074<0512:AOTEBS>2.0.CO;2
- "The (*n*00), *n* = 3, 4, and 6, Local Mode States of H₃SiD: Fourier Transform Infrared and Laser Photoacoustic Spectra and *ab initio* Calculations of Spectroscopic Parameters." Bürger, H.; Lecoutre, M.; Huet, T. R.; Breidung, J.; Thiel, W.; Hänninen, V.; Halonen, L., *J Chem Phys*, **2001**, *114* (20), 8844-8854. DOI: 10.1063/1.1367390
- "Laser Photoacoustic Control of Water Quality." Bykovsky, Y. A.; Karpouk, A. B.; Melekhov, A. P.; Oshurko, V. B., *Laser Physics*, **2001**, *11* (4), 537-541.
- "CH-Stretching Overtone Spectra of a Fast Rotating Methyl Group. I. Toluene C₆D₅CH₃." Cavagnat, D.; Lespade, L., *J Chem Phys*, **2001**, *114* (14), 6030-6040. DOI: 10.1063/1.1355313
- "CH-Stretching Overtone Spectra of a Fast Rotating Methyl Group. II. Toluenes C₆D₅CH₂D and C₆D₅CHD₂." Cavagnat, D.; Lespade, L., *J Chem Phys*, **2001**, *114* (14), 6041-6050. DOI: 10.1063/1.1355314
- "A Photoacoustic FTIRS Study of the Chemical Modifications of Human Dentin Surfaces: I. Demineralization." Di Renzo, M.; Ellis, T. H.; Sacher, E.; Stangel, I., *Biomaterials*, **2001**, *22* (8), 787-792. DOI: 10.1016/S0142-9612(00)00240-4
- "A Photoacoustic FTIRS Study of the Chemical Modifications of Human Dentin Surfaces: II. Deproteinization." Di Renzo, M.; Ellis, T. H.; Sacher, E.; Stangel, I., *Biomaterials*, **2001**, *22* (8), 793-797. DOI: 10.1016/S0142-9612(00)00239-8
- "FT-IR Photoacoustic Spectroscopy of Porous SiC Layer." Du, Y. L.; Li, K.; Wu, B. M.; Lee, T.; Kim, Y., *Progress in Natural Science*, **2001**, *11* (Supplement S), S205-S209.
- "Detection of Trace Levels of Water in Oil by Photoacoustic Spectroscopy." Foster, N. S.; Amonette, J. E.; Autrey, T.; Ho, J. T., *Sens Actuators B*, **2001**, *77* (3), 620-624. DOI: 10.1016/S0925-4005(01)00767-5
- "Step-Scan FTIR and Photoacoustic Detection to Assess Depth Profile of Photooxidized Polymer." Gonon, L.; Mallegol, J.; Commereuc, S.; Verney, V., *Vib Spectrosc*, **2001**, *26* (1), 43-49. DOI: 10.1016/S0924-2031(01)00102-3
- "New Applications of Fourier Spectrometers." Gorbunov, G. G.; Egorova, L. V.; Es'kov, D. N.; Taganov, O. K.; Seregin, A. G., *Journal of Optical Technology*, **2001**, *68* (8), 608-612. DOI: 10.1364/JOT.68.000608
- "Penetration of Compounds through Human Stratum Corneum as Studied by Fourier Transform Infrared Photoacoustic Spectroscopy." Hanh, B. D.; Neubert, R. H. H.; Wartewig, S.; Lasch, J., *J Controlled Release*, **2001**, *70* (3), 393-398. DOI: 10.1016/S0168-3659(00)00371-0
- "Water-Soluble Acrylamide Copolymers. VIII. Preparation and Characterization of Polyacrylamide-co-N-t-butylacrylamide." Hocking, M. B.; Klimchuk, K. A.; Lowen, S., *J Polym Sci, Part A*, **2001**, *39* (12), 1960-1977. DOI: 10.1002/pola.1173
- "Monitoring Chemical Changes in Some Foods using Fourier Transform Photoacoustic Spectroscopy." Irudayaraj, J.; Sivakesava, S.; Kamath, S.; Yang, H., *J Food Sci*, **2001**, *66* (9), 1416-1421. DOI: 10.1111/j.1365-2621.2001.tb15224.x
- "Photoacoustic Spectroscopy using a Synchrotron Light Source." Jackson, R. S.; Michaelian, K. H.; Homes, C. C.; Conference on Fourier Transform Spectroscopy, OSA, Vol. 51; 2001, 161-163.
- "Phase References and Cell Effects in Photoacoustic Spectroscopy." Jones, R. W.; McClelland, J. F., *Appl*

- Spectrosc*, **2001**, 55 (10), 1360-1367. DOI: 10.1366/0003702011953487
- "Effect of Inclusions in Polymeric Coatings on Quantitative Surface Depth Profiling: Modeling and Step-Scan Photoacoustic FT-IR Spectroscopy." Katti, K. S.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **2001**, 222, U350-U350.
- "Comparison of Spectroscopic Techniques for the Determination of Kjeldahl and Ammoniacal Nitrogen Content of Farmyard Manure." Kemsley, E. K.; Tapp, H. S.; Scarlett, A. J.; Miles, S. J.; Hammond, R.; Wilson, R. H., *J Agric Food Chem*, **2001**, 49 (2), 603-609. DOI: 10.1021/jf001060r
- "The Si-H Stretching-Bending Overtone Polyads of SiHF₃: Assignments, Band Intensities, Internal Coordinate Force Field, and ab initio Dipole Moment Surfaces." Lin, H.; Burger, H.; Mkadmi, E.; He, S. G.; Yuan, L. F.; Breidung, J.; Thiel, W.; Huet, T. R.; Demaison, J., *J Chem Phys*, **2001**, 115 (3), 1378-1391. DOI: 10.1063/1.1376393
- "Variability of Cork from Portuguese *Quercus suber* Studied by Solid-State ¹³C-NMR and FTIR Spectroscopies." Lopes, M. H.; Barros, A. S.; Neto, C. P.; Rutledge, D.; Delgadillo, I.; Gil, A. M., *Biopolymers*, **2001**, 62 (5), 268-277. DOI: 10.1002/bip.1022
- "FTIR Photoacoustic Spectroscopy of Diesel Lubricant Oils Containing Particulate Matter." McClelland, J. F.; Jones, R. W., *Lubr Eng*, **2001**, 57 (9), 17-21.
- "Modification of Chrysotile Surface by Organosilanes: An IR-Photoacoustic Spectroscopy Study." Mendelovici, E.; Frost, R. L.; Kloprogge, J. T., *J Colloid Interface Sci*, **2001**, 238 (2), 273-278. DOI: 10.1006/jcis.2001.7524
- "Synchrotron Infrared Photoacoustic Spectroscopy." Michaelian, K. H.; Jackson, R. S.; Homes, C. C., *Rev Sci Instrum*, **2001**, 72 (12), 4331-4336. DOI: 10.1063/1.1416107
- "Photoacoustic Infrared Spectroscopy of Distillation Fractions from Syncrude Sweet Blend. Curve-Fitting and Integration of C-H Stretching Bands." Michaelian, K. H.; Zhang, S. L. L.; Hall, R. H.; Bulmer, J. T., *Can J Anal Sci Spectros*, **2001**, 46 (1), 10-22.
- "Diffusion of Nitroglycerin from Drug Delivery Patches through Micro-Fibre Filters using Fourier Transform Infrared Photoacoustic Spectrometry." Nakamura, O.; Lowe, R. D.; Mitchem, L.; Snook, R. D., *Anal Chim Acta*, **2001**, 427 (1), 63-73. DOI: 10.1016/S0003-2670(00)01168-5
- "Conformation of Adsorbed Random Copolymers: A Solid-State NMR and FTIR-PAS Study." Nasreddine, V.; Halla, J.; Reven, L., *Macromolecules*, **2001**, 34 (21), 7403-7410. DOI: 10.1021/ma010833p
- "Laser Photoacoustic Probe of Absorber Spatial Organization." Oshurko, V. B.; Bykovsky, Y. A.; Karpouk, A. B.; Melekhov, A. P., *Laser Physics*, **2001**, 11 (5), 610-615.
- "Enzymatic Isolation and Structural Characterisation of Polymeric Suberin of Cork from *Quercus suber* L." Rocha, S. M.; Goodfellow, B. J.; Delgadillo, I.; Neto, C. P.; Gil, A. M., *Int J Biol Macromol*, **2001**, 28 (2), 107-119. DOI: 10.1016/S0141-8130(00)00163-X
- "FT-IR Photoacoustic Spectroscopy of Kaolinite and Gibbsite Surfaces." Ruan, H. D.; Frost, R. L.; Kloprogge, J. T.; Duong, L.; Schulze, D. G.; 12th International Clay Conference, Dominguez, E.; Mas, G. R.; Cravero, F., Eds.; 2001, 537-543. DOI: 10.1016/B978-044450945-1/50158-5
- "Structural Transformation of Polyethylene Phase in Oriented Polyethylene/polypropylene Blends: A Hierarchical Structure Approach." Schmidt, P.; Baldrian, J.; Scudla, J.; Dybal, J.; Raab, M.; Eichhorn, K. J., *Polymer*, **2001**, 42 (12), 5321-5326. DOI: 10.1016/S0032-3861(00)00928-9
- "High-Precision Pulsed Photoacoustic Spectroscopy in NO₂-N₂." Slezak, V., *Appl Phys B*, **2001**, 73 (7), 751-755. DOI: 10.1007/s003400100686
- "Stratification Processes in Thermoplastic Olefins Monitored by Step-Scan Photoacoustic FT-IR Spectroscopy." Stegge, J. M.; Urban, M. W., *Polymer*, **2001**, 42 (12), 5479-5484. DOI: 10.1016/S0032-3861(00)00852-1
- "X-Ray Diffraction and Spectroscopic Studies of Oleic Acid-Sodium Oleate." Tandon, P.; Raudenkolb, S.; Neubert, R. H. H.; Rettig, W.; Wartewig, S., *Chem Phys Lipids*, **2001**, 109 (1), 37-45. DOI: 10.1016/S0009-3084(00)00207-3
- "Fourier Transform Infrared Spectrometric Analysis of Protein Conformation: Effect of Sampling Method and Stress Factors." van de Weert, M.; Haris, P. I.; Hennink, W. E.; Crommelin, D. J. A., *Anal Biochem*, **2001**, 297 (2), 160-169. DOI: 10.1006/abio.2001.5337
- "Reference Materials at Emission Levels of NH₃ and HCl." van Wijk, J. I. T.; Nieuwenkamp, G.; Hafkenscheid, T. L., *Fresenius J Anal Chem*, **2001**, 370 (2-3), 200-202. DOI: 10.1007/s002160100825
- "Applications of Vibrational Spectroscopy to the Analysis of Novel Coatings." Vreugdenhil, A. J.; Donley, M. S.; Grebasch, N. T.; Passinault, R. J., *Prog Org Coat*, **2001**, 41 (4), 254-260. DOI: 10.1016/S0300-9440(01)00136-9

- "Progress in Theories and Applications on the Chemistry of Photoacoustic Phase." Wu, R. H.; Su, Q. D., *Progress in Chemistry*, **2001**, 13 (2), 87-93.
- "Thermo-Oxidative Degradation Behaviors of Expandable Graphite-Based Intumescent Halogen-Free Flame Retardant LLDPE Blends." Xie, R.; Qu, B., *Polym Degrad Stab*, **2001**, 71 (3), 395-402. DOI: 10.1016/S0141-3910(00)00190-7
- "Nitrogen Plasma Treatment of the Dow Cyclotene 3022 Surface and Its Reaction with Evaporated Copper." Yang, D. Q.; Martinu, L.; Sacher, E.; Sadough-Vanini, A., *Appl Surf Sci*, **2001**, 177 (1-2), 85-95. DOI: 10.1016/S0169-4332(01)00200-8
- "Argon Ion Treatment of the Dow Cyclotene 3022 Surface and Its Effect on the Adhesion of Evaporated Copper." Yang, D. Q.; Sacher, E., *Appl Surf Sci*, **2001**, 173 (1-2), 30-39. DOI: 10.1016/S0169-4332(00)00882-5
- "Characterization of Beef and Pork using Fourier-Transform Infrared Photoacoustic Spectroscopy." Yang, H.; Irudayaraj, J., *Lebensmittel-Wissenschaft und -Technologie-Food Science and Technology*, **2001**, 34 (6), 402-409. DOI: 10.1006/fstl.2001.0778
- "Characterization of Edible Coatings and Microorganisms on Food Surfaces Using Fourier Transform Infrared Photoacoustic Spectroscopy." Yang, H.; Irudayaraj, J.; Sakhamuri, S., *Appl Spectrosc*, **2001**, 55 (5), 571-583. DOI: 10.1366/0003702011952370
- "Photoacoustic Characterization and FTIR Spectroscopic Studies on Conducting Polyaniline Doped with Different Sulphonic Acids." Yunus, W. M. M.; Fanny, C. Y. J.; Ab Rahman, M. Z.; 4th Pacific Rim Conference on Lasers and Electro-Optics, Vol. II; 2001, 204-205.
- "Fluorine Modified Chromium Oxide and its Impact on Heterogeneously Catalyzed Fluorination Reactions." Adamczyk, B.; Boese, O.; Weiher, N.; Schroeder, S. L. M.; Kemnitz, E., *J Fluorine Chem*, **2000**, 101 (2), 239-246. DOI: 10.1016/S0022-1139(99)00165-7
- "Chemical Surface Characterization and Depth Profiling of Automotive Coating Systems." Adamsons, K., *Prog Polym Sci*, **2000**, 25 (9), 1363-1409. DOI: 10.1016/S0079-6700(00)00031-9
- "Surface Chemistry of End Cuts from Athabasca Bitumen." Bensebaa, F.; Kotlyar, L.; Pleizier, G.; Sparks, B.; Deslandes, Y.; Chung, K., *Surf Interface Anal*, **2000**, 30 (1), 207-211. DOI: 10.1002/1096-9918(200008)30:1<207::AID-SIA816>3.0.CO;2-5
- "FTIR Step-Scan Photoacoustic Spectroscopy: Some Novel Industrial Applications." Chalmers, J. M.; Everall, N. J.; Hewitson, K.; Grady, A., *Abstracts of Papers of the American Chemical Society*, **2000**, 219, U503-U503.
- "Novel Self-Assembled Hydrogels by Stereocomplex Formation in Aqueous Solution of Enantiomeric Lactic Acid Oligomers Grafted to Dextran." de Jong, S. J.; De Smedt, S. C.; Wahls, M. W. C.; Demeester, J.; Kettenes-van den Bosch, J. J.; Hennink, W. E., *Macromolecules*, **2000**, 33 (10), 3680-3686. DOI: 10.1021/ma992067g
- "Polarized FTIR Photoacoustic Spectroscopy on Blends of Thermoplastic Poly(ether-urethanes) with Modified Polypropylenes." Eichhorn, K.-J.; Hopfe, I.; Pötschke, P.; Schmidt, P., *J Appl Polym Sci*, **2000**, 75 (9), 1194-1204. DOI: 10.1002/(SICI)1097-4628(20000228)75:9<1194::AID-APP13>3.0.CO;2-F
- "Chlorophyll a-Violaxanthin Interactions in Monolayers at Air-Water Interface and in Langmuir-Blodgett Films." Gruszecki, W. I.; Zelent, B.; Tajmir-Riahi, H. A.; Wang, G. M.; Taleb, T.; Veeranjanyulu, K.; Leblanc, R. M., *Colloids and Surfaces B-Biointerfaces*, **2000**, 19 (2), 117-125. DOI: 10.1016/S0927-7765(00)00132-6
- "Drug Penetration as Studied by Noninvasive Methods: Fourier Transform Infrared-Attenuated Total Reflection, Fourier Transform Infrared, and Ultraviolet Photoacoustic Spectroscopy." Hanh, B. D.; Neubert, R. H. H.; Wartewig, S.; Christ, A.; Hentzsch, C., *J Pharm Sci*, **2000**, 89 (9), 1106-1113. DOI: 10.1002/1520-6017(200009)89:9<1106::AID-JPS2>3.0.CO;2-J
- "Pulsed Nd:YAG Laser Selective Ablation of Surface Enamel Caries: I. Photoacoustic Response and FTIR Spectroscopy." Harris, D. M.; Fried, D.; Lasers in Dentistry VI, Featherstone, J. D. B.; Rechmann, P.; Fried, D., Eds.; SPIE, Vol. 3910; 2000, 164-170. DOI: 10.1117/12.380823
- "Water-Soluble Acrylamide Copolymers. VI. Preparation and Characterization of poly[N,N-dimethylacrylamide-co-acrylamide] and Control Polyacrylamides." Hocking, M. B.; Klimchuk, K. A.; Lowen, S., *J Polym Sci, Part A*, **2000**, 38 (17), 3128-3145. DOI: 10.1002/1099-0518(20000901)38:17<3128::AID-POLA130>3.0.CO;2-K
- "Analysis of Cheese Using Step-Scan Fourier Transform Infrared Photoacoustic Spectroscopy." Irudayaraj, J.; Yang, H., *Appl Spectrosc*, **2000**, 54 (4), 595-600. DOI: 10.1366/0003702001949799

- "Gel-Modulated Photo Ablation using Noncontact Photoacoustic Spectroscopy Control: A New Concept." Jean, B. J.; Bende, T.; 10th Conference on Ophthalmic Technologies, Rol, P. O.; Joos, K. M.; Manns, F., Eds.; SPIE, Vol. 3908; 2000, 166-172. DOI: 10.1117/12.387534
- "Distribution of Individual Components in Thermoplastic Olefins: Step-Scan FT-IR Photoacoustic Phase Analysis." Kiland, B. R.; Urban, M. W.; Ryntz, R. A., *Polymer*, **2000**, 41 (4), 1597-1606. DOI: 10.1016/S0032-3861(99)00323-7
- "Water-Soluble Acrylamide Copolymers. VII. Preparation and Characterization of Poly(methacrylamide-co-acrylamide)." Klimchuk, K. A.; Hocking, M. B.; Lowen, S., *J Polym Sci, Part A*, **2000**, 38 (17), 3146-3160. DOI: 10.1002/1099-0518(20000901)38:17<3146::AID-POLA140>3.0.CO;2-F
- "Metabolic Dysfunction and Unabated Respiration Precede the Loss of Membrane Integrity During Dehydration of Germinating Radicles." Leprince, O.; Harren, F. J. M.; Buitink, J.; Alberda, M.; Hoekstra, F. A., *Plant Physiol*, **2000**, 122 (2), 597-608. DOI: 10.1104/pp.122.2.597
- "Quantitation of Aliphatic Suberin in *Quercus suber* L. Cork by FTIR Spectroscopy and Solid-State ¹³C-NMR Spectroscopy." Lopes, M. H.; Neto, C. P.; Barros, A. S.; Rutledge, D.; Delgadillo, I.; Gil, A. M., *Biopolymers*, **2000**, 57 (6), 344-351. DOI: 10.1002/1097-0282(2000)57:6<344::AID-BIP40>3.0.CO;2-#
- "Drier Influence on the Curing of Linseed Oil." Mallegol, J.; Lemaire, J.; Gardette, J. L., *Prog Org Coat*, **2000**, 39 (2-4), 107-113. DOI: 10.1016/S0300-9440(00)00126-0
- "Differences Between Mg²⁺ and Transition Metal Ions in the Activation of Calcineurin." Martin, B. L.; Li, B. T.; Liao, C. X.; Rhode, D. J., *Arch Biochem Biophys*, **2000**, 380 (1), 71-77. DOI: 10.1006/abbi.2000.1898
- "Pore Surface Functionalization of MCM-48 Mesoporous Silica with Tungsten and Molybdenum Metal Centers: Perspectives on Catalytic Peroxide Activation." Morey, M. S.; Bryan, J. D.; Schwarz, S.; Stucky, G. D., *Chem Mater*, **2000**, 12 (11), 3435-3444. DOI: 10.1021/cm001001t
- "Hydrothermal and Postsynthesis Surface Modification of Cubic, MCM-48, and Ultralarge Pore SBA-15 Mesoporous Silica with Titanium." Morey, M. S.; O'Brien, S.; Schwarz, S.; Stucky, G. D., *Chem Mater*, **2000**, 12 (4), 898-911. DOI: 10.1021/cm9901663
- "FTIR Photoacoustic Spectral Depth Profiling: Putting A. G. Bell's Discovery to Work in Analytical Materials Science." Palmer, R. A.; 2nd Conference of the International Union of Microbeam Analysis Societies, Williams, D. B.; Shimizu, R., Eds.; Institute of Physics, 2000, 47-48.
- "The Evaluation of Structural Changes in Wool Fibre Keratin Treated with Azo Dyes by Fourier Transform Infrared Spectroscopy." Pielesz, A.; Wkochowicz, A.; Binias, W., *Spectrochim Acta, Part A*, **2000**, 56 (7), 1409-1420. DOI: 10.1016/S1386-1425(99)00271-1
- "The Surface Structure of Dow Cyclotene 3022, as Determined by Photoacoustic FTIR, Confocal Raman and Photoelectron Spectroscopies." Poulin, S.; Yang, D. Q.; Sacher, E.; Hyett, C.; Ellis, T. H., *Appl Surf Sci*, **2000**, 165 (1), 15-22. DOI: 10.1016/S0169-4332(00)00272-5
- "A Novel Method to Calculate the Approximate Derivative Photoacoustic Spectrum using Continuous Wavelet Transform." Shao, X. G.; Pang, C. Y.; Su, Q. D., *Fresenius J Anal Chem*, **2000**, 367 (6), 525-529. DOI: 10.1007/s002160000404
- "Analysis of Potato Chips using FTIR Photoacoustic Spectroscopy." Sivakesava, S.; Irudayaraj, J., *J Sci Food Agric*, **2000**, 80 (12), 1805-1810. DOI: 10.1002/1097-0010(20000915)80:12<1805::AID-JSFA710>3.3.CO;2-C
- "Infrared Rheo-Optics of *Bombyx mori* Fibroin Film by Dynamic Step-Scan FT-IR Spectroscopy Combined with Digital Signal Processing." Sonoyama, M.; Nakano, T., *Appl Spectrosc*, **2000**, 54 (7), 968-973. DOI: 10.1366/0003702001950698
- "Surface-Depth Profiling of Thermoplastic Olefins using Step-Scan Photoacoustic FTIR Spectroscopy." Urban, M. W.; Kiland, B. R.; Ryntz, R. A., *Abstracts of Papers of the American Chemical Society*, **2000**, 219, U502-U502.
- "Protein on Cloths: Evaluation of Analytical Techniques." Van Dalen, G., *Appl Spectrosc*, **2000**, 54 (9), 1350-1356. DOI: 10.1366/0003702001951020
- "Infrared Optoacoustic Spectroscopy of ¹³CD₃OD around 9P CO₂ Laser Lines." Viscovini, R. C.; Scalabrin, A.; Pereira, D., *International Journal of Infrared and Millimeter Waves*, **2000**, 21 (4), 621-632. DOI: 10.1023/A:1006640021819
- "Depth Profiles in Coated Paper: Experimental and Simulated FT-IR Photoacoustic Difference Magnitude Spectra." Wahls, M. W. C.; Kenttä, E.; Leyte, J. C., *Appl Spectrosc*, **2000**, 54 (2), 214-220. DOI: 10.1366/0003702001949429

- "Interfacial Reaction between Evaporated Copper and Dow Cyclotene 3022." Yang, D.-Q.; Poulin, S.; Sacher, E.; Hyett, C., *Appl Surf Sci*, **2000**, 165 (2-3), 116-126. DOI: 10.1016/S0169-4332(00)00372-X
- "Characterization of Semisolid Fats and Edible Oils by Fourier Transform Infrared Photoacoustic Spectroscopy." Yang, H.; Irudayaraj, J., *J Am Oil Chem Soc*, **2000**, 77 (3), 291-295. DOI: 10.1007/s11746-000-0048-y
- "Depth Profiling Fourier Transform Analysis of Cheese Package Using Generalized Two-dimensional Photoacoustic Correlation Spectroscopy." Yang, H.; Irudayaraj, J., *Trans ASAE*, **2000**, 43 (4), 953-961.
- "Depth Profiling Fourier Transform Analysis of Cheese Package Using Generalized Two-dimensional Photoacoustic Correlation Spectroscopy." Yang, H.; Irudayaraj, J.; Sakhamuri, S.; 2000 ASAE Annual International Meeting, 2000, 1-9.
- "Orientation Measurements from the Surfaces of Injection Moulded Plaques of Thermotropic Liquid Crystalline Polymer using Normal Incidence Specular Reflection." Bensaad, S.; Jasse, B.; Noel, C., *Polymer*, **1999**, 40 (26), 7295-7301. DOI: 10.1016/S0032-3861(99)00059-2
- "Sorption of Methanol on Tungstosilicic Acid." Bielanski, A.; Datka, J.; Gil, B.; Malecka-Lubanska, A.; Micek-Ilnicka, A., *Phys Chem Chem Phys*, **1999**, 1 (9), 2355-2360. DOI: 10.1039/a900515c
- "High-Resolution Infrared Spectrum of ν_5 , ν_4 , ν_3 , $\nu_4+\nu_5$, and $2\nu_4$ Band Systems of Deuterobromoacetylene." Brotherus, R.; Vaitinen, O.; Halonen, L.; Bürger, H.; Polanz, O., *J Mol Spectrosc*, **1999**, 193 (1), 137-149. DOI: 10.1006/jmsp.1998.7731
- "Selection Criteria for Microphones Used in Pulsed Nonresonant Gas-Phase Photoacoustics." Calasso, I. G.; Sigrist, M. W., *Rev Sci Instrum*, **1999**, 70 (12), 4569-4578. DOI: 10.1063/1.1150114
- "Effect of Organic Matter Removal by Low-Temperature Ashing on Dispersion of Undisturbed Aggregates from a Tropical Crusting Soil." D'Acqui, L. P.; Churchman, G. J.; Janik, L. J.; Ristori, G. G.; Weissmann, D. A., *Geoderma*, **1999**, 93 (3-4), 311-324. DOI: 10.1016/S0016-7061(99)00073-7
- "Acid-Redox Properties of Titania-Supported 12-Molybdophosphates for Methanol Oxidation." Damyanova, S.; Cubeiro, M. L.; Fierro, J. L. G., *J Mol Catal A*, **1999**, 142 (1), 85-100. DOI: 10.1016/S1381-1169(98)00279-9
- "Spectral Studies on the Mechanism of Rare Earth Poly(vinyl chloride) Thermal Stabilizers." Fan, W. X.; Chen, G.; Wan, S. K.; Su, Q. D., *Spectroscopy and Spectral Analysis (Guang Pu Xue Yu Guang Pu Fen Xi)*, **1999**, 19 (6), 772-775, in Chinese.
- "Vibrational Overtone Spectroscopy of Metallocenes and "Half-Sandwich" Organometallic Complexes." Fedorov, A. V.; Snively, D. L., *J Phys Chem A*, **1999**, 103 (39), 7795-7799. DOI: 10.1021/jp991924f
- "Depth Profiling of Photooxidized Styrene-Isoprene Copolymers by Photoacoustic and Micro-Fourier Transform Infrared Spectroscopy." Gonon, L.; Vasseur, O. J.; Gardette, J.-L., *Appl Spectrosc*, **1999**, 53 (2), 157-163. DOI: 10.1366/0003702991946479
- "Transient Infrared Spectroscopy for Detection of Toxigenic Fungi in Corn: Potential for On-Line Evaluation." Gordon, S. H.; Jones, R. W.; McClelland, J. F.; Wicklow, D. T.; Greene, R. V., *J Agric Food Chem*, **1999**, 47 (12), 5267-5272. DOI: 10.1021/jf990011f
- "Applications of Two-Dimensional Correlation (2D) FT-IR Spectroscopy to Polymeric Materials Characterization." Gregoriou, V. G.; Rodman, S. E.; Nair, B. R.; Hammond, P. T.; International Symposium on 2-Dimensional Correlation Spectroscopy (2DCOS), Ozaki, Y.; Noda, I., Eds.; AIP, Vol. 503; 1999, 55-63.
- "The Use of Optical Spectroscopy in Combinatorial Chemistry." Gremlich, H.-U., *Biotechnol Bioeng*, **1999**, 61 (3), 179-187. DOI: 10.1002/(SICI)1097-0290(1998)61:3<179::AID-CC5>3.0.CO;2-0
- "Applicability of FTIR/PAS Depth Profiling for the Study of Coated Papers." Halttunen, M.; Tenhunen, J.; Saarinen, T.; Stenius, P., *Vib Spectrosc*, **1999**, 19 (2), 261-269. DOI: 10.1016/S0924-2031(98)00097-6
- "Penetration of Drugs from Semisolid Formulation as Studied by Step-Scan FT-IR Photoacoustic Spectroscopy." Hanh, B. D.; Neubert, R. H. H.; Wartewig, S.; In *Spectroscopy of Biological Molecules: New Directions*, 1999; pp 555-556.
- "Heterogeneity Studies of a Single Particle/Fiber by Using Fourier Transform Infrared Micro-Sampling Photoacoustic Spectroscopy." Jiang, E. Y., *Appl Spectrosc*, **1999**, 53 (5), 583-587. DOI: 10.1366/0003702991946947
- "A Flexible Method of Carbonate Determination using an Automatic Gas Analyzer Equipped with an FTIR Photoacoustic Measurement Chamber." Liu, W. X.; Sun, Z. X.; Ranheimer, M.; Forsling, W.; Tang, H. X., *Analyst*, **1999**, 124 (3), 361-365. DOI: 10.1039/a808745h

- "Molecular Analysis of Polymers by FTIR Photoacoustic Spectroscopy." McClelland, J. F.; Jones, R.; Bajic, S.; In *ANTEC '99: Plastics Bridging the Millennia*, SPE Annual Technical Conference Proceedings Society of Plastics Engineers: 1999; pp 2424-2428.
- "Stratification in Thermoplastic Olefins (TPO); Photoacoustic FT-IR Depth Profiling Studies." Pennington, B. D.; Ryntz, R. A.; Urban, M. W., *Polymer*, **1999**, *40* (17), 4795-4803. DOI: 10.1016/S0032-3861(98)00714-9
- "Rheo-Photoacoustic (RPA) FT-IR Spectroscopic Studies of the Adhesion of Thermosets to Polyolefins." Pennington, B. D.; Urban, M. W., *J Adhes Sci Technol*, **1999**, *13* (1), 19-34. DOI: 10.1163/156856199X00271
- "Caging Interactions between a Dopant Chromophore and the Sol-Gel Matrix." Puccetti, G.; Leblanc, R. M., *J Non-Cryst Solids*, **1999**, *258* (1-3), 57-69. DOI: 10.1016/S0022-3093(99)00539-6
- "Penetration Studies of Clotrimazole from Semisolid Formulation Using step-Scan FT-IR Photoacoustic Spectroscopy." Schendzielorz, A.; Hanh, B. D.; Neubert, R. H. H.; Wartewig, S., *Pharm Res*, **1999**, *16* (1), 42-45. DOI: 10.1023/A:1018810526576
- "Characterization of a TiCl₄-Modified Silica Surface by Means of Quantitative Surface Analysis." Schrijnemakers, K.; Van der Voort, P.; Vansant, E. F., *Phys Chem Chem Phys*, **1999**, *1* (10), 2569-2572. DOI: 10.1039/a901016e
- "High-Resolution Laser Photoacoustic Spectroscopy of OCS in the 12000-13000 cm⁻¹ Region." Tranchart, S.; Bachir, I. H.; Huet, T. R.; Olafsson, A.; Destombes, J. L.; Naim, S.; Fayt, A., *J Mol Spectrosc*, **1999**, *196* (2), 265-273. DOI: 10.1006/jmsp.1999.7853
- "Stratification of Butyl Acrylate/Polyurethane (BA/PUR) Latexes: ATR and Step-Scan Photoacoustic Studies." Urban, M. W.; Allison, C. L.; Johnson, G. L.; Di Stefano, F., *Appl Spectrosc*, **1999**, *53* (12), 1520-1527. DOI: 10.1366/0003702991946253
- "A Polymer Double-Layer Studied by Step-Scan FTIR Photoacoustic Spectroscopy." Wahls, M. W. C.; Leyte, J. C.; Swart, J. M. F.; van Woerkom, P. C. M., *Macromolecular Symposia*, **1999**, *141*, 145-154. DOI: 10.1002/masy.19991410114
- "Predicting the Performance of Durable Press Finished Cotton Fabric with Infrared Spectroscopy." Wei, W. S.; Yang, C. Q., *Textile Research Journal*, **1999**, *69* (2), 145-151.
- "A Comparison of Various FTIR and FT Raman Methods: Applications in the Reaction Optimization Stage of Combinatorial Chemistry." Yan, B.; Gremlich, H. U.; Moss, S.; Coppola, G. M.; Sun, Q.; Liu, L., *J Comb Chem*, **1999**, *1* (1), 46-54. DOI: 10.1021/cc980003w
- "Estimation of Particle Size by DRIFTS and FTIR-PAS." Yang, H.; Irudayaraj, J., *Particulate Science and Technology*, **1999**, *17* (4), 269-282. DOI: 10.1080/02726359908906818
- "Examination of Food Package by Fourier Transform Infrared Phototacoustic Spectroscopy (FTIR-PAS)." Yang, H.; Irudayaraj, J.; Yang, H.; ASAE/CSAE-SCGR Annual International Meeting, 1999,
- "Laser Spectroscopy with a Pulsed, Narrowband Infrared Optical Parametric Oscillator System: A Practical, Modular Approach." Baxter, G. W.; Barth, H. D.; Orr, B. J., *Appl Phys B*, **1998**, *66* (5), 653-657. DOI: 10.1007/s003400050451
- "Vibrational Overtone Spectroscopy and Internal Dynamics in Gaseous Nitromethane NO₂CH₂D." Cavagnat, D.; Lespade, L., *J Chem Phys*, **1998**, *108* (22), 9275-9284. DOI: 10.1063/1.476382
- "Thermal Diffusivity of an Epoxy System as a Function of the Hardener Content." d'Almeida, J. R. M.; Cella, N.; Monteiro, S. N.; Miranda, L. C. M., *J Appl Polym Sci*, **1998**, *69* (7), 1335-1341. DOI: 10.1002/(SICI)1097-4628(19980815)69:7<1335::AID-APP8>3.0.CO;2-F
- "The Ground Electronic State of 1,2-Dichloroethane - II. Experimental Investigation of the Fundamental and Overtone Vibrations." El Youssefi, Y.; Lievin, J.; Vander Auwera, J.; Herman, M.; Fedorov, A.; Snavely, D. L., *Mol Phys*, **1998**, *94* (3), 473-484. DOI: 10.1080/002689798167980
- "Step-Scan FTIR Photoacoustic Spectroscopy of PCB-Contaminated Solids." Faubel, W.; Hofmann, G. R., *American Environmental Laboratory*, **1998**, *10* (4), 20-21.
- "Thermal and Mechanical Properties of Radiation Crosslinked Poly(tetrafluoroethylene-co-perfluoromethyl vinyl ether)." Forsythe, J. S.; Hill, D. J. T.; Logothetis, A. L.; Seguchi, T.; Whittaker, A. K., *Radiat Phys Chem*, **1998**, *53* (6), 657-667. DOI: 10.1016/S0969-806X(97)00270-3
- "Neural Network Pattern Recognition of Photoacoustic FTIR Spectra and Knowledge-Based Techniques for Detection of Mycotoxigenic Fungi in Food Grains." Gordon, S. H.; Wheeler, B. C.; Schudy, R. B.; Wicklow, D. T.; Greene, R. V., *J Food Prot*, **1998**, *61* (2), 221-230.
- "Investigation of the Anisotropic Nature of Laser-Generated Ultrasound in Zinc and Unidirectional Carbon Epoxy Composites." Hurley, D. H.; Spicer, J. B.; Wagner, J. W.; Murray, T. W., *Ultrasonics*, **1998**, *36*

- (1-5), 355-360. DOI: 10.1016/S0041-624X(97)00050-4
- "FT-IR PAS: A Versatile Tool for Spectral Depth Profiling Chemical Analysis." Jiang, E. Y.; McCarthy, W. J.; Drapcho, D. L., *Spectroscopy*, **1998**, 13 (2), 21-40.
- "Carbonate Complexation of Neptunyl(VI) Ion." Kato, Y.; Kimura, T.; Yoshida, Z.; Nitani, N., *Radiochimica Acta*, **1998**, 82, 63-68.
- "Pulsed Photoacoustic Inspection of Metals using the Fast Fourier Transform." Korobov, A. I.; Odina, N. I., *Russ J Nondestr Test*, **1998**, 34 (8), 619-623.
- "Triclinic Muscovite: X-ray Diffraction, Neutron Diffraction and Photo-Acoustic FTIR Spectroscopy." Liang, J. J.; Hawthorne, F. C.; Swainson, I. P., *Can Mineral*, **1998**, 36, 1017-1027.
- "Rheo-Photoacoustic FTIR and Morphology Studies of Molecular Weight-Strain Dependence in Poly(vinylidene fluoride)." Ludwig, B. W.; Urban, M. W., *Polymer*, **1998**, 39 (24), 5899-5912. DOI: 10.1016/S0032-3861(98)00114-1
- "Thermal Degradation of Ceramides as Studied by Mass Spectrometry and Vibrational Spectroscopy." Neubert, R.; Raith, K.; Raudenkolb, S.; Wartewig, S., *Anal Commun*, **1998**, 35 (5), 161-164. DOI: 10.1039/a801326h
- "Fourier Transform Infrared-Photoacoustic Spectroscopy of Poly(*N*-butyl methacrylate) Adsorbed from Solution on Alumina." Pekel, N.; Güven, O., *J Appl Polym Sci*, **1998**, 69 (8), 1669-1674. DOI: 10.1002/(SICI)1097-4628(19980822)69:8<1669::AID-APP20>3.3.CO;2-1
- "Vibrational Spectroscopy, Anharmonic Resonances, and Intramolecular Vibrational Redistribution in Tetrafluoroiodoethane." Pochert, J.; Quack, M., *Mol Phys*, **1998**, 95 (5), 1055-1075. DOI: 10.1080/002689798166666
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Tetra(para-octanoyloxyphenyl) Porphyrin Complexes." Shi, T. S.; Liu, W.; Wang, Y. J.; Zhao, J.; Liu, G. F., *Chemical Journal of Chinese Universities-Chinese*, **1998**, 19 (11), 1794-1798.
- "Step Scan Photoacoustic FT-IR Spectroscopy and Stratification Processes in Thermoplastic Olefins (TPO)." Stegge, J. M.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1998**, 215, U283-U283.
- "High-Resolution Photoacoustic Overtone Spectrum of Monobromoacetylene, HCCBr, Above 11,600 cm⁻¹." Vaittinen, O.; Hamalainen, M.; Jungner, P.; Pulkkinen, K.; Halonen, L.; Burger, H.; Polanz, O., *J Mol Spectrosc*, **1998**, 187 (2), 193-199. DOI: 10.1006/jmbsp.1997.7477
- "Step-Scan FT-IR Photoacoustic Studies of a Double-Layered Polymer Film on Metal Substrates." Wahls, M. W. C.; Leyte, J. C., *Appl Spectrosc*, **1998**, 52 (1), 123-127. DOI: 10.1366/0003702981942447
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Polymeric Laminates." Wahls, M. W. C.; Leyte, J. C., *J Appl Phys*, **1998**, 83 (1), 504-509. DOI: 10.1063/1.366663
- "Multi-Frequency S²FTIR PA Spectral Depth Profiling by Use of Sinusoidal Phase Modulation and Harmonic Demodulation up to 2250 Hz (10th Harmonic)." Wang, H. C.; Phifer, E. B.; Palmer, R. A., *Fresenius J Anal Chem*, **1998**, 362 (1), 34-40. DOI: 10.1007/s002160051032
- "Evaluation of a Portable Fourier Transform Infrared Gas Analyzer for Measurements of Air Toxics in Pollution Prevention Research." Wright, R. S.; Howe, G. B.; Jayanty, R. K. M., *J Air Waste Manage Assoc*, **1998**, 48 (11), 1077-1084.
- "FT-IR Spectroscopy Study of Isopropanol Reactivity on Silica-Supported Heteropolyanions." Aranzabe, A.; Roman, P.; Aguayo, A. T.; Martin, C.; Rives, V., *Spectrosc Lett*, **1997**, 30 (6), 963-974. DOI: 10.1080/00387019708006700
- "Characterization of Acetone-Washed Yeast Biomass Functional Groups Involved in Lead Biosorption." Ashkenazy, R.; Gottlieb, L.; Yannai, S., *Biotechnol Bioeng*, **1997**, 55 (1), 1-10.
- "Rapid Analysis of Wood Using Transient Infrared Spectroscopy and Photoacoustic Spectroscopy with PLS Regression." Bajic, S. J.; Jones, R. W.; McClelland, J. F.; Hames, B. R.; Meglen, R. R.; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 466-469. DOI: 10.1063/1.55710
- "Utilizing Fourier-Transform Infrared Photoacoustic Spectroscopy to Analyze Underground Storage Tank Waste Material." Bajic, S. J.; McClelland, J. F.; Jones, R. W., *Mikrochim Acta*, **1997**, Supplement 14, 611-612.
- "Vibrational Overtone Spectroscopy of Methane in Liquid Argon Solutions." Blunt, V. M.; Cedeno, D. L.; Manzanares, C., *Mol Phys*, **1997**, 91 (1), 3-17. DOI: 10.1080/002689797171698
- "Internal Dynamics Contributions to the CH Stretching Overtone Spectra of Gaseous Nitromethane NO₂CH₃." Cavagnat, D.; Lespade, L., *J Chem Phys*, **1997**, 106 (19), 7946-7957. DOI:

10.1063/1.473807

- "Digital Signal Processing (DSP) Applications in FT-TR. Implementation Examples for Rapid and Step Scan Systems." Curbelo, R.; In *Fourier Transform Spectroscopy*; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 74-83. DOI: 10.1063/1.55823
- "Chemical Modifications of Dentin Studied by Photoacoustic FTIR." DiRenzo, F. M.; Ellis, T.; Sacher, E.; Stangel, I., *J Dent Res*, **1997**, 76 (Special Issue), 1965-1965.
- "Digital Signal Processing for Step-Scan Fourier Transform Infrared Photoacoustic Spectroscopy." Drapcho, D. L.; Curbelo, R.; Jiang, E. Y.; Crocombe, R. A.; McCarthy, W. J., *Appl Spectrosc*, **1997**, 51 (4), 453-460. DOI: 10.1366/0003702971940486
- "Polyblend Fibers from Polypropylene and Mercapto-Modified EVA." Dutra, R. C. L.; Soares, B. G.; Gorelova, M. M.; Silva, J. L. G.; Lourenço, V. L.; Ferreira, G. E., *J Appl Polym Sci*, **1997**, 66 (12), 2243-2249. DOI: 10.1002/(SICI)1097-4628(19971219)66:12<2243::AID-APP5>3.0.CO;2-G
- "Compound Identification in Thin Layer Chromatography using Spectrometric Methods." Gocan, S.; Cimpan, G., *Rev Anal Chem*, **1997**, 16 (1), 1-24. DOI: 10.1515/REVAC.1997.16.1.1
- "Identification of Fourier Transform Infrared Photoacoustic Spectral Features for Detection of *Aspergillus flavus* Infection in Corn." Gordon, S. H.; Schudy, R. B.; Wheeler, B. C.; Wicklow, D. T.; Greene, R. V., *Int J Food Microbiol*, **1997**, 35 (2), 179-186. DOI: 10.1016/S0168-1605(96)01217-2
- "Photoacoustic FTIR Spectroscopy, a Non-Destructive Method for Sensitive Analysis of Solid-Phase Organic Chemistry." Gosselin, F.; Di Renzo, M.; Ellis, T. H.; Lubell, W. D., *Abstracts of Papers of the American Chemical Society*, **1997**, 213, 569-ORGN.
- "Applications of Photoacoustic Step-Scan FT-IR Spectroscopy to Polymeric Materials." Gregoriou, V. G.; Hapanowicz, R., *Macromolecular Symposia*, **1997**, 119, 101-111. DOI: 10.1002/masy.19971190110
- "Applications of Step-Scan FT-IR Photoacoustic Spectroscopy to Thin-Coatings Characterization." Gregoriou, V. G.; Hapanowicz, R., *Spectroscopy*, **1997**, 12 (5), 37-41 & 57.
- "High Resolution Photoacoustic Spectrum of AsH₃ (600A₁/E) Bands." Han, J.-x.; Ulenikov, O. N.; Yurchinko, S.; Hao, L.-y.; Wang, X.-g.; Zhu, Q.-s., *Spectrochim Acta, Part A*, **1997**, 53 (11), 1705-1712. DOI: 10.1016/S1386-1425(97)00067-X
- "Identification of Polymer Blends by Simple Analytical Methods." Heimer, B.; Rode, K.; Braun, D.; Pasch, H., *Kautsch Gummi Kunstst*, **1997**, 50 (3), 208-215.
- "Hydrolytic Decomposition of Dichlorodifluoromethane on Modified Zirconium Oxide Surfaces." Hess, A.; Kemnitz, E., *Catal Lett*, **1997**, 49 (3-4), 199-205. DOI: 10.1023/A:1019001220755
- "Frequency-Resolved, Phase-Resolved and Time-Resolved Step-Scan Fourier Transform Infrared Photoacoustic Spectroscopy." Jiang, E. Y.; Drapcho, D. L.; McCarthy, W. J.; Crocombe, R. A.; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 381-384. DOI: 10.1063/1.55760
- "Generalized Two-Dimensional Fourier Transform Infrared Photoacoustic Spectral Depth-Profiling Analysis." Jiang, E. Y.; McCarthy, W. J.; Drapcho, D. L.; Crocombe, R. A., *Appl Spectrosc*, **1997**, 51 (11), 1736-1740. DOI: 10.1366/0003702971939442
- "Comparison of Phase Rotation, Phase Spectrum, and Two-Dimensional Correlation Methods in Step-Scan Fourier Transform Infrared Photoacoustic Spectral Depth Profiling." Jiang, E. Y.; Palmer, R. A., *Anal Chem*, **1997**, 69 (10), 1931-1935. DOI: 10.1021/ac961080I
- "Phase-Resolved Depth Profiling of Thin-Layered Plasma Polymer Films by Step-Scan Fourier Transform Infrared Photoacoustic Spectroscopy." Jiang, E. Y.; Palmer, R. A.; Barr, N. E.; Morosoff, N., *Appl Spectrosc*, **1997**, 51 (8), 1238-1244. DOI: 10.1366/0003702971941818
- "Influence of Glow Discharge Plasma on the Surface Structure and Chemical Properties of Powdered 1,3,5,7-Tetranitro-1,3,5,7-tetraazacyclooctane." Korobko, A. P.; Levakova, I. V.; Krashennnikov, S. V.; Korobko, T. A., *High Energy Chem*, **1997**, 31 (4), 268-274.
- "Pulsed Photoacoustic Study of the Diffusion of Chromophores in Human Skin." Lahjomri, F.; Puccetti, G.; Leblanc, R. M.; Alard, V.; Denis, A.; Tranchant, J. F., *Photochem Photobiol*, **1997**, 65 (2), 292-302. DOI: 10.1111/j.1751-1097.1997.tb08561.x
- "Raman and Fourier-Transform Infrared Photoacoustic Spectra of Granular ZnO₂." Liu, F. X.; Yang, J. L.; Zhao, T. P., *Phys Rev B*, **1997**, 55 (14), 8847-8851.
- "Rheo-Photoacoustic FTIR. Studies of Thermal History-Strain Dependence in Poly(vinylidene fluoride)." Ludwig, B. W.; Urban, M. W., *Polymer*, **1997**, 38 (9), 2077-2091. DOI: 10.1016/S0032-3861(96)00767-7

- "High-Resolution FTIR and Photoacoustic Overtone Spectrum of HCl." Lummila, J.; Vaittinen, O.; Jungner, P.; Halonen, L.; Tolonen, A.-M., *J Mol Spectrosc*, **1997**, *185* (2), 296-303. DOI: 10.1006/jmsp.1997.7426
- "Depth Profiling by FT-IR Photoacoustic Spectroscopy." McClelland, J. F.; Jones, R. W.; Bajic, S. J.; Power, J. F., *Mikrochim Acta*, **1997**, *Supplement 14*, 613-614.
- "Spectroscopic Investigation of Ground State Pyrrole ($^{12}\text{C}_4\text{H}_5\text{N}$): The N-H Stretch." Mellouki, A.; Georges, R.; Herman, M.; Snavely, D. L.; Leytner, S., *Chem Phys*, **1997**, *220* (3), 311-322. DOI: 10.1016/S0301-0104(97)00136-5
- "Far-Infrared Spectra of Kaolinite/Alkali Metal Halide Complexes." Michaelian, K. H.; Akers, K. L.; Zhang, S. L.; Yariv, S.; Lapedes, I., *Mikrochim Acta*, **1997**, *Supplement 14*, 211-212.
- "Direct Determination of Drug Content in Semisolid Formulations using Step-Scan FT-IR Photoacoustic Spectroscopy." Neubert, R.; Collin, B.; Wartewig, S., *Pharm Res*, **1997**, *14* (7), 946-948. DOI: 10.1023/A:1012168304557
- "Quantitative Analysis of Drug Content in Semisolid Formulations using Step-Scan FT-IR Photoacoustic Spectroscopy." Neubert, R.; Collin, B.; Wartewig, S., *Vib Spectrosc*, **1997**, *13* (2), 241-244. DOI: 10.1016/S0924-2031(96)00057-4
- "Step-Scan FT-IR Photoacoustic (S^2 FT-IR PA) Spectral Depth Profiling of Layered Materials." Palmer, R. A.; Jiang, E. Y.; Chao, J. L., *Mikrochim Acta*, **1997**, *Supplement 14*, 591-594.
- "Analysis of Wood Surfaces and Ground Wood by Diffuse Reflectance (DRIFT) and Photoacoustic (PAS) Fourier Transform Infrared Spectroscopic Techniques." Pandey, K. K.; Theagarajan, K. S., *Holz als Roh- und Werkstoff*, **1997**, *55* (6), 383-390. DOI: 10.1007/s001070050251
- "The Effect of Thermoplastic Olefin Stratification on Adhesion; Step-Scan Photoacoustic FT-IR Spectroscopic Studies." Pennington, B. D.; Ryntz, R. A.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1997**, *214*, 337-PMSE.
- "Synthesis of a Covalently Bound Polymeric Borazine Structure on a Mesoporous Silica Gel." Possemiers, K.; Impens, N.; Vansant, E. F., *J Chem Soc, Faraday Trans*, **1997**, *93* (13), 2309-2314. DOI: 10.1039/a607226g
- "The Surface Structure of the Proton-Exchanged Lithium Manganese Oxide Spinel and their Lithium-Ion Sieve Properties." Sato, K.; Poojary, D. M.; Clearfield, A.; Kohno, M.; Inoue, Y., *J Solid State Chem*, **1997**, *131* (1), 84-93. DOI: 10.1006/jssc.1997.7348
- "Study of the Conformations of Poly(ϵ -caprolactam) and Poly(ϵ -caprolactam)-polybutadiene Block Copolymers by FTIR Spectroscopy with Photoacoustic Detection and by Micro-Raman Confocal Spectroscopy." Schmidt, P.; Fernandez, M. R.; Pastor, J. M.; Roda, J., *Polymer*, **1997**, *38* (9), 2067-2075. DOI: 10.1016/S0032-3861(96)00766-5
- "Analysis of the Chemical Composition of Poly(ϵ -caprolactam)-block-polybutadiene Copolymers by Photoacoustic FTIR Spectroscopy and by FT Raman Spectroscopy." Schmidt, P.; Roda, J.; Novakova, V.; Pastor, J. M., *Angew Makromol Chem*, **1997**, *245*, 113-123. DOI: 10.1002/apmc.1997.052450110
- "Non-Destructive Evaluation of Diamond and Diamond-Like Carbon Films by Laser Induced Surface Acoustic Waves." Schneider, D.; Schwarz, T.; Scheibe, H. J.; Panzner, M., *Thin Solid Films*, **1997**, *295* (1-2), 107-116. DOI: 10.1016/S0040-6090(96)09163-8
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Tetra-(para-hydroxyphenyl) Porphyrin Complexes." Shi, T. S.; An, Q. D.; Xu, C. F.; Liu, G. F.; Teng, Y. F.; Qi, X. L.; Yu, L. X., *Chemical Journal of Chinese Universities-Chinese*, **1997**, *18* (8), 1375-1377.
- "Uniform Depth Profiling of Multiple Sample Depth Ranges in a Single Step-Scanning FT-IR Photoacoustic Experiment." Story, G. M.; Marcott, C.; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 513-515. DOI: 10.1063/1.55718
- "A Study on the Structure of Degraded PVC by Photoacoustic Spectroscopy." Su, Q. D.; Mao, J. J.; Zhao, G. W.; Zhang, M. S., *J Mol Struct*, **1997**, *403* (3), 231-236. DOI: 10.1016/S0022-2860(96)09352-0
- "The Effect of Polyol Functionality on Water Blown Rigid Foams." Tabor, R.; Lepovitz, J.; Potts, W.; Latham, D.; Latham, L., *Journal of Cellular Plastics*, **1997**, *33* (4), 372-399. DOI: 10.1177/0021955X9703300405
- "Surfactants in Latex Films; Interactions with Latex Components and Quantitative Analysis using ATR and Step-Scan PAS FT-IR Spectroscopy." Urban, M. W., *Prog Org Coat*, **1997**, *32* (1-4), 215-229. DOI: 10.1016/S0300-9440(97)00075-1
- "Step-Scan FT-IR Photoacoustic Spectroscopy: A Polymer Coating on a Copper Substrate." Wahls, M.; Leyte, J. C.; 5th European Conference on Advanced Materials and Processes and Applications

- (EUROMAT 97), Sarton, L. A. J.; Zeedijk, H. B., Eds.; 1997, 307-310.
- "Step-Scan FT-IR Photoacoustic Spectroscopy: The Signal Phase." Wahls, M. W. C.; Toutenhoofd, J. P.; Leyte-Zuiderweg, L. H.; de Bleijser, J.; Leyte, J. C., *Appl Spectrosc*, **1997**, *51* (4), 552-557. DOI: 10.1366/0003702971940576
- "Step-Scan FTIR Photoacoustic Spectroscopy: The Phase-Response of the Surface Reference Sample Carbon Black." Wahls, M. W. C.; Weisman, J. L.; Jesse, W. J.; Leyte, J. C.; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 392-394.
- "Photoacoustic Spectroscopy vs. Chemical Categorization of Human Gallstones." Wentrup-Byrne, E.; Rintoul, L.; Gentner, J. M.; Smith, J. L.; Fredericks, P. M., *Mikrochim Acta*, **1997**, (Supplement 14), 615-616. DOI: 10.1007/978-3-7091-6840-0_15
- "Synchrotron Powered FT-IR Microspectroscopic Incremental Probing of Photochemically Degraded Polymer Films." Wetzel, D. L.; Carter, R. O.; Eleventh International Conference on Fourier Transform Spectroscopy, de Haseth, J. A., Ed. AIP, Vol. 430; 1997, 567-570.
- "Review of Optically Pumped FIR Laser Observations and FT-Spectra-Assisted FIR Laser Assignments for $^{13}\text{CD}_3\text{OH}$." Xu, L. H.; Hurtmans, D., *Infrared Phys Technol*, **1997**, *38* (6), 357-372.
- "Radiation Graft Copolymerization of 2-Hydroxyethyl Methacrylate onto Poly (γ -Methyl L-Glutamate) Membrane." Yue-E, F.; Xia, Z.; Wu, G. X., *Radiat Phys Chem*, **1997**, *50* (5), 487-491. DOI: 10.1016/S0969-806X(97)00061-3
- "CH-Stretching Overtone Spectra and Internal Methyl Rotation in 2,6-Difluorotoluene." Zhu, C. X.; Kjaergaard, H. G.; Henry, B. R., *J Chem Phys*, **1997**, *107* (3), 691-701. DOI: 10.1063/1.474434
- "Plasma Surface Modification of Polyethylene with Organosilicon and Organotin Monomers." Akovali, G.; Rzaev, Z. M. O.; Mamedov, D. G., *Eur Polym J*, **1996**, *32* (3), 375-383. DOI: 10.1016/0014-3057(95)00069-0
- "Effect of Oxidation on the Rate of Agglomeration of Coal with Oil." Allen, R. W.; Wheelock, T. D., *Fuel Sci Technol Int*, **1996**, *14* (4), 577-588.
- "Real-Time Photoacoustic Signal Analysis in a Gas-Phase Spectrophone: A Feasibility Study." Bellaiche-Sharpe, P.; Gough, K. M.; Schattka, B. J.; MacDonald, T.; Rustenburg, J.; Struyk, A.; McDonnell, G., *Appl Spectrosc*, **1996**, *50* (11), 1366-1372. DOI: 10.1366/0003702963904647
- "An Improved Technique for the Determination of Isocyanurate and Isocyanate Conversion by Photoacoustic FTIR." Bhattacharjee, D.; Engineer, R., *Journal of Cellular Plastics*, **1996**, *32* (3), 260-273. DOI: 10.1177/0021955X9603200304
- "Near-Infrared and Visible Spectroscopy of CH_3D in Liquid Argon Solutions." Blunt, V. M.; Brock, A.; Manzanares, C., *J Phys Chem*, **1996**, *100* (11), 4413-4419. DOI: 10.1021/jp952898y
- "Time-Resolved Impulse Photoacoustic Measurements by Step-Scan FT-IR Spectrometry." Budevskas, B. O.; Manning, C. J., *Appl Spectrosc*, **1996**, *50* (7), 939-947. DOI: 10.1366/0003702963905457
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Surface-Treated Wool." Carter, E. A.; Fredericks, P. M.; Church, J. S., *Textile Research Journal*, **1996**, *66* (12), 787-794. DOI: 10.1177/004051759606601207
- "Surface Properties of Titania-Supported 12-Molybdophosphoric Acid Hydrodesulphurization Catalysts." Damyanova, S.; Fierro, J. L. G., *Appl Catal A*, **1996**, *144* (1-2), 59-77. DOI: 10.1016/0926-860X(96)00104-4
- "Comparison of IR Techniques for the Characterization of Construction Cement Minerals and Hydrated Products." Delgado, A. H.; Paroli, R. M.; Beaudoin, J. J., *Appl Spectrosc*, **1996**, *50* (8), 970-976. DOI: 10.1366/0003702963905312
- "Detection of Total Trans Fatty Acids Content in Margarine: An Intercomparison Study of GLC, GLC + TLC, FT-IR, and Optothermal Window (Open Photoacoustic Cell)." Favier, J. P.; Bicanic, D.; van de Bovenkamp, P.; Chirtoc, M.; Helander, P., *Anal Chem*, **1996**, *68* (5), 729-733. DOI: 10.1021/ac9508661
- "Photoacoustic FTIR Spectroscopy, a Nondestructive Method for Sensitive Analysis of Solid-Phase Organic Chemistry." Gosselin, F.; Di Renzo, M.; Ellis, T. H.; Lubell, W. D., *J Org Chem*, **1996**, *61* (23), 7980-7981. DOI: 10.1021/jo961393g
- "Indirect Photon Interaction in PbS Photodetectors." Indrea, E.; Barbu, A., *Appl Surf Sci*, **1996**, *106*, 498-501. DOI: 10.1016/S0169-4332(96)00394-7
- "Characterization of Laser Deposited CdTe and $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ Thin Films." Indrea, E.; Deac, I.; Barbu, A.; Filip, X., *Appl Surf Sci*, **1996**, *106*, 70-74. DOI: 10.1016/S0169-4332(96)00395-9
- "Quantitative Depth Profiling of Layered Samples Using Phase-Modulation FT-IR Photoacoustic

- Spectroscopy." Jones, R. W.; McClelland, J. F., *Appl Spectrosc*, **1996**, *50* (10), 1258-1263. DOI: 10.1366/0003702963905015
- "Photoacoustic and FT-IR Study upon Molecular Forms of Rhodamine B Dye Adsorbed on KCl and SiO₂ Substrates." Kanezaki, E., *Molecular Crystals and Liquid Crystals Science and Technology Section A-Molecular Crystals and Liquid Crystals*, **1996**, *275*, 225-231. DOI: 10.1080/10587259608034076
- "Study of Interface Segregation Behavior in Acrylate Copolymer/Fluoro-copolymer Blends using FT-IR Phase-Modulated Photoacoustic Spectroscopy." Kano, Y.; Akiyama, S.; Kobayashi, S., *J Adhes*, **1996**, *55* (3-4), 261-272. DOI: 10.1080/00218469608009951
- "Solid-Liquid Phase Equilibria of Np(VI) and of U(VI) under Controlled CO₂ Partial Pressures." Kato, Y.; Kimura, T.; Yoshida, Z.; Nitani, N., *Radiochimica Acta*, **1996**, *74*, 21-25.
- "The Photoacoustic Effect Generated by Laser Irradiation of an Isotropic Solid Cylinder." Khan, M. I.; Diebold, G. J., *Ultrasonics*, **1996**, *34* (1), 19-24. DOI: 10.1016/0041-624X(95)00128-P
- "Speciation of Neptunium(VI) Solid Phases Formed in Aqueous Carbonate Systems." Kimura, T.; Kato, Y.; Yoshida, Z.; Nitani, N., *J Nucl Sci Technol*, **1996**, *33* (6), 519-521. DOI: 10.3327/jnst.33.519
- "Surface Properties of Powdered 1,3,5,7-Tetraazacyclooctane Modified in a Glow-Discharge Plasma." Levakova, I. V.; Korobko, A. P.; Krashennnikov, S. V.; Potapov, V. K., *High Energ Chem*, **1996**, *30* (6), 427-432.
- "Fermi Resonances and Local Modes in Stibine, SbH₃: A Fourier Interferometric and Laser Photoacoustic Study of the Overtone Spectrum." Lummila, J.; Lukka, T.; Halonen, L.; Burger, H.; Polanz, O., *J Chem Phys*, **1996**, *104* (2), 488-498. DOI: 10.1063/1.470845
- "A New Step Toward Transition Metal Incorporation in Cubic Mesoporous Materials: Preparation and Characterization of Ti-MCM-48." Morey, M.; Davidson, A.; Stucky, G., *Microporous Mater*, **1996**, *6* (2), 99-104. DOI: 10.1016/0927-6513(95)00090-9
- "Latex Film Formation at Surfaces and Interfaces: Spectroscopic Attenuated Total Reflectance and Photoacoustic Fourier Transform IR Approaches." Niu, B.-J.; Martin, L. R.; Tebelius, L. K.; Urban, M. W.; In *Film Formation in Waterborne Coatings*, Provder, T.; Winnik, M. A.; Urban, M. W., Eds.; ACS Symposium Series 648, ACS: 1996; pp 301-331. DOI: 10.1021/bk-1996-0648.ch020
- "Surfactant Exudation and Film Formation in 50%/50% STY/n-BA Latex Films: Step-Scan Photoacoustic FT-IR Spectroscopic Studies." Niu, B. J.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1996**, *212*, 30-PMSE.
- "Quantitative Characterization of Polymer Structure by Photoacoustic Fourier Transform Infrared Spectroscopy." Parker, J. R.; Waddell, W. H., *J Elastomers Plast*, **1996**, *28* (2), 140-160.
- "High Pressure Photoacoustic Step-Scan FT-IR Spectroscopy of Polymers." Pennington, B. D.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1996**, *212*, 29-PMSE.
- "Characterization and Quantification of the NH₃ Modification of a BCl₃-Treated Silica Gel Surface." Possemiers, K.; Van Der Voort, P.; Vansant, E. F., *J Chem Soc, Faraday Trans*, **1996**, *92* (4), 679-684. DOI: 10.1039/ft9969200679
- "FT-IR PAS Depth Profiling Investigation of Polyethylene Surface Sulfonation." Sowa, M. G.; Fischer, D.; Eysel, H. H.; Mantsch, H. H., *J Mol Struct*, **1996**, *379* (1-3), 77-85. DOI: 10.1016/0022-2860(95)09057-6
- "Study of New Technique for Three Dimensional Images in Photoacoustic Microscope." Tokunaga, Y.; Tamura, K., *Jpn J Appl Phys, Part 1*, **1996**, *35* (5B), 2892-2895. DOI: 10.1143/JJAP.35.2892
- "Quantitative Aspects of ATR and Photoacoustic Step-Scan FT-IR Surface and Interfacial Analysis of Polymeric Films." Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1996**, *212*, 10-PMSE.
- "Surfactants in Latex Films Interactions with Latex Components and Quantitative Analysis using ATR and Step-Scan PAS-FT-IR Spectroscopy." Urban, M. W.; In *XXIInd International Conference in Organic Coatings - Waterborne - High Solids - Powder Coatings*, 1996; pp 385-408.
- "Infrared Optoacoustic Spectroscopy of ¹³CD₃OD around the 10R and 10P CO₂ Laser Lines." Viscovini, R. C.; Scalabrin, A.; Pereira, D., *International Journal of Infrared and Millimeter Waves*, **1996**, *17* (11), 1821-1838. DOI: 10.1007/BF02069457
- "Analysis of Underground Storage Tank Waste Simulants by Fourier Transform Infrared Photoacoustic Spectroscopy." Bajic, S. J.; Luo, S.; Jones, R. W.; McClelland, J. F., *Appl Spectrosc*, **1995**, *49* (7), 1000-1005. DOI: 10.1366/0003702953964642
- "Overtone Spectroscopy of CHD₃ in Liquid Argon Solutions." Blunt, V. M.; Brock, A.; Manzanares, C., *Berichte Der Bunsen-Gesellschaft-Physical Chemistry Chemical Physics*, **1995**, *99* (3), 520-529.

- "Pulsed-Laser Excitation of Acoustic Modes in Open High-Q Photoacoustic Resonators for Trace Gas Monitoring - Results for C₂H₄." Brand, C.; Winkler, A.; Hess, P.; Miklós, A.; Bozóki, Z.; Sneider, J., *Appl Opt*, **1995**, 34 (18), 3257-3266. DOI: 10.1364/AO.34.003257
- "Spectroscopic, Structural and Microcalorimetric Study of Stishovite, a Nonpathogenic Polymorph of SiO₂." Cerrato, G.; Fubini, B.; Baricco, M.; Morterra, C., *J Mater Chem*, **1995**, 5 (11), 1935-1941. DOI: 10.1039/jm9950501935
- "Tri-n-Butylborane Oxide-Initiated Homopolymerization of Vinyl Monomers Containing Cyano or Isocyanato Groups." Chappelow, C. C.; Pinzino, C. S.; Byerley, T. J.; Eick, J. D., *J Appl Polym Sci*, **1995**, 58 (7), 1147-1150. DOI: 10.1002/app.1995.070580708
- "The Quantitative Analysis of Fluorocarbon Polymer Finishes on Wool by FT-IR Spectroscopy." Church, J. S.; Evans, D. J., *J Appl Polym Sci*, **1995**, 57 (13), 1585-1594. DOI: 10.1002/app.1995.070571306
- "Advances in Photoacoustic Step-scan FT-IR Spectroscopy." Drapcho, D. L.; Crocombe, R. A.; Seebode, J.; In *Progress in Fourier Transform Spectroscopy*; 10th International Conference on Fourier Transform Spectroscopy, Mink, J.; Keresztury, G.; Kellner, R., Eds.; Springer, 1995, 585-588. DOI: 10.1007/978-3-7091-6840-0_146
- "Photoacoustic Phase Spectrum of a Layered Sample." Du, H.; Fang, J. W.; Zheng, J. J., *Appl Phys A*, **1995**, 60 (4), 419-423. DOI: 10.1007/BF01538344
- "The Effect of Surface Fluorination on the Wettability of High-Density Polyethylene." Dutoit, F. J.; Sanderson, R. D.; Engelbrecht, W. J.; Wagener, J. B., *J Fluorine Chem*, **1995**, 74 (1), 43-48. DOI: 10.1016/0022-1139(94)03218-0
- "Crystallinity Index of Microcrystalline Cellulose Particles Compressed Into Tablets." Ek, R.; Wormald, P.; Ostelius, J.; Iversen, T.; Nystrom, C., *Int J Pharm*, **1995**, 125 (2), 257-264. DOI: 10.1016/0378-5173(95)00139-A
- "Interaction Between Molybdena and Silica: FT-IR/PA Studies of Surface Hydroxyl Groups and Pore Structure Assessment." El Shafei, G. M. S.; Mokhtar, M. M., *Colloids Surf Physicochem Eng Aspects*, **1995**, 94 (2-3), 267-277. DOI: 10.1016/0927-7757(94)03005-7
- "Depth Profiling of a Photochemically Yellowed Paper. Part II. FT-IR Techniques." Forsskåhl, I.; Kenttä, E.; Kyyrönen, P.; Sundström, O., *Appl Spectrosc*, **1995**, 49 (2), 163-170. DOI: 10.1366/0003702953963724
- "Rapid Computer-Assisted Infrared Analysis of Urinary Calculi Using Photoacoustic Detection." Gould, N.; Hallson, P. C.; Kasidas, G. P.; Samuell, C. T.; Weir, T. B., *Urological Research*, **1995**, 23 (1), 63-69.
- "Chemical Activation of Elutrilite Producing Carbon-Aluminosilicate Composite Adsorbent." Hu, Z.; Vansant, E. F., *Carbon*, **1995**, 33 (9), 1293-1300. DOI: 10.1016/0008-6223(95)00076-P
- "Development and Applications of a Photoacoustic Phase Theory for Multilayer Materials: The Phase Difference Approach." Jiang, E. Y.; Palmer, R. A.; Chao, J. L., *J Appl Phys*, **1995**, 78 (1), 460-469. DOI: 10.1063/1.360627
- "Application of FT-IR Step-Scan Photoacoustic Phase Modulation Methods to Keratin Fibers." Jurdana, L. E.; Ghiggino, K. P.; Leaver, I. H.; Cole-Clarke, P., *Appl Spectrosc*, **1995**, 49 (3), 361-366. DOI: 10.1366/0003702953963508
- "The Photoacoustic Effect Generated by an Isotropic Solid Sphere." Khan, M. I.; Diebold, G. J., *Ultrasonics*, **1995**, 33 (4), 265-269. DOI: 10.1016/0041-624X(95)00034-Z
- "Quantitative Determination of the Composition of Individual Pea Seeds by Fourier-Transform Infrared Photoacoustic Spectroscopy." Letzelter, N. S.; Wilson, R. H.; Jones, A. D.; Sinnavee, G., *J Sci Food Agric*, **1995**, 67 (2), 239-245. DOI: 10.1002/jsfa.2740670215
- "Rheophotoacoustic Fourier Transform IR Spectroscopy to Study Diffusion and Adhesion in Polymers." Ludwig, B. W.; Pennington, B. D.; Urban, M. W.; In *Multidimensional Spectroscopy of Polymers: Vibrational, NMR, and Fluorescence Techniques*, ACS Symposium Series 598, 1995; pp 78-98.
- "Hydrogen Cyanide Polymers: From Laboratory to Space." Matthews, C. N., *Planetary and Space Science*, **1995**, 43 (10-11), 1365-1370. DOI: 10.1016/0032-0633(95)00023-X
- "Near and Mid-Infrared Photoacoustic Analysis of Principal Components of Foodstuffs." McQueen, D. H.; Wilson, R.; Kinnunen, A., *TrAC-Trends in Analytical Chemistry*, **1995**, 14 (10), 482-492. DOI: 10.1016/0165-9936(95)90809-2
- "Infrared Spectroscopy of Thermally Treated Low-Rank Coals. 2. Mid-Infrared and Near-Infrared Photoacoustic Spectra of Coals Heated in Oxidizing and Inert Atmospheres." Michaelian, K. H.; Ogunsola, O. I.; Bartholomew, R. J., *Canadian Journal of Applied Spectroscopy*, **1995**, 40 (4), 94-99.
- "Surface Morphology and Chemical Characterization of Abrasion Erosion Lesions." Mixson, J. M.; Spencer,

- P.; Moore, D. L.; Chappell, R. P.; Adams, S., *American Journal of Dentistry*, **1995**, 8 (1), 5-9.
- "Fourier-Transform Infrared Photoacoustic Study of Pyridine Adsorbed on Silica-Supported Copper Molybdenum Catalysts." Mohamed, M. M., *Spectrochim Acta, Part A*, **1995**, 51 (1), 1-9.
- "Redox Behavior of Copper Mordenite Zeolite." Mohamed, M. M.; Vansant, E. F., *J Mater Sci*, **1995**, 30 (19), 4834-4838. DOI: 10.1007/BF01154491
- "Fourier Transform Spectroscopy of the CO-Stretching Band of C-13 Methanol in the Torsional Ground State." Mukhopadhyay, I.; Lees, R. M.; Lewis-Bevan, W.; Johns, J. W. C., *J Chem Phys*, **1995**, 102 (16), 6444-6455.
- "Evaluating the Weatherability of Polyurethane Sealants." Paroli, R. M.; Cole, K. C.; Delgado, A. H.; In *Multidimensional Spectroscopy of Polymers - Vibrational, NMR, and Fluorescence Techniques*, ACS Symposium Series 598, 1995; pp 117-136.
- "Probing Adhesion Spectroscopically: Rheo-Photoacoustic FT-IR Spectroscopy and Work of Adhesion." Pennington, B. D.; Urban, M. W., *J Adhes Sci Technol*, **1995**, 9 (8), 1143-1160. DOI: 10.1163/156856195X00950
- "A Multitechnique Analysis of the Outermost Layers of the Teflon PFA Surface." Piyakis, K.; Sacher, E.; Domingue, A.; Pireaux, J.-J.; Leclerc, G.; Bertrand, P.; Lhoest, J. B., *Appl Surf Sci*, **1995**, 84 (3), 227-235. DOI: 10.1016/0169-4332(94)00551-6
- "Total Characterization of the BCl₃-modified Silica Surface by means of Quantitative Surface Analysis." Possemiers, K.; Vrancken, K. C.; Van Der Voort, P.; Vansant, E. F., *J Chem Soc, Faraday Trans*, **1995**, 91 (14), 2173-2178. DOI: 10.1039/ft9959102173
- "A Comparison between PA-FTIR and FT-Raman Spectroscopies in the Structural Analysis of Annealed Injected-Moulded Poly(ethylene terephthalate)." Quintanilla, L.; Rodriguez-Cabello, J. C.; Merino, J. C.; Pastor, J. M., *Macromolecular Symposia*, **1995**, 94, 129-144. DOI: 10.1002/masy.19950940112
- "Application of Fourier-Transform Infrared Photoacoustic Spectroscopy to Porphyrins Studies. 3. FTIR-PAS of Lanthanide Acetylacetonate-Meso-Tetra-(Para-Chlorophenyl) Porphyrin Rare-Earth Complexes." Shi, T. S.; Liu, G. F.; Yu, L. X.; Cao, X. Z., *Chemical Journal of Chinese Universities-Chinese*, **1995**, 16 (1), 94-97.
- "Polyheterocycles Containing Alkene Spacer Linkages. Part II. Synthesis and Polymerization of (E)-2-Styrylthiophenes and (E)-2-Styrylpyrrole." Smith, J. R.; Ratcliffe, N. M.; Campbell, S. A., *Synth Met*, **1995**, 73 (2), 171-182. DOI: 10.1016/0379-6779(95)03318-1
- "Planar Chromatography Coupled with Spectroscopic Techniques." Somsen, G. W.; Morden, W.; Wilson, I. D., *J Chromatogr A*, **1995**, 703 (1-2), 613-665. DOI: 10.1016/0021-9673(95)00296-Y
- "Electric-Field Effects on Roto-Vibrational Transitions of ¹³CD₃OH." Telles, E. M.; Moraes, J. C. S.; Scalabrin, A.; Pereira, D.; Carelli, G.; Massa, C. A.; Moretti, A.; Strumia, F., *International Journal of Infrared and Millimeter Waves*, **1995**, 16 (12), 2233-2248. DOI: 10.1007/BF02073424
- "Intensities of CH-Stretching Overtones in 2-Butenes." Turnbull, D. M.; Kjaergaard, H. G.; Henry, B. R., *Chem Phys*, **1995**, 195 (1-3), 129-141. DOI: 10.1016/0301-0104(95)00059-W
- "Comparison of Photoacoustic, Diffuse Reflectance and Transmission Infrared Spectroscopy for the Study of Carbon Fibres." Yang, C. Q.; Simms, J. R., *Fuel*, **1995**, 74 (4), 543-548. DOI: 10.1016/0016-2361(95)98357-K
- "Fourier-Transform Infrared Photoacoustic Spectroscopy to Study the Penetration of Substances through Skin." Baesso, M. L.; Snook, R. D.; Andrew, J. J., *J Phys IV*, **1994**, 4 (C7), 449-451. DOI: 10.1051/jp4:1994791
- "Photoacoustic Infrared Spectroscopy for Evaluation of an ABS as an Automotive Interior Material." Carter, R. O., III; McCallum, J. B., *Polym Degrad Stab*, **1994**, 45 (1), 1-10. DOI: 10.1016/0141-3910(94)90172-4
- "Application of FTIR Photoacoustic Spectroscopy in the Determination of the Level of Chemical Modification of Jute Fibers." Cherian, X. M.; Satyamoorthy, P.; Andrew, J. J.; Bhattacharya, S. K., *Journal of Macromolecular Science-Pure and Applied Chemistry*, **1994**, A31 (Supplement 3-4), 261-270.
- "Chemical Reactions Between Dentin and Bonding Agents." Drenzo, M.; Ellis, T. H.; Domingue, A.; Bertrand, L.; Sacher, E.; Stangel, I., *J Adhes*, **1994**, 47 (1-3), 115-121.
- "Fourier-Transform Photoacoustic Spectroscopy of Polymers." Dittmar, R. M.; Palmer, R. A.; Carter, R. O., *Appl Spectrosc Rev*, **1994**, 29 (2), 171-231. DOI: 10.1080/05704929408000900
- "Measurement of Photoacoustic Signal and Noises in a Sensitive Spectrophone with a Frequency-Stabilised CO₂ Laser." Dutu, C. A.; Cristescu, S.; Dumitras, D. C.; Fourth Conference in

- Optics, ROMOPTO '94, Vlad, V. I., Ed. SPIE, Vol. 2461; 1994, 310-316. DOI: 10.1117/12.203562
- "Model Study of the First Steps in the Deterioration of Calcareous Stone. 1. Initial Surface Sulphite Formation on Calcite." Elfving, P.; Panas, I.; Lindqvist, O., *Appl Surf Sci*, **1994**, *74* (1), 91-98. DOI: 10.1016/0169-4332(94)90103-1
- "Depth Profiling of Polymer Surfaces with FT-IR Spectroscopy." Fina, L. J., *Appl Spectrosc Rev*, **1994**, *29* (3-4), 309-365. DOI: 10.1080/05704929408000562
- "Use of Photoacoustic Fourier-Transform Infrared Spectroscopy to Study Phosphates in Proteins." Graves, D. J.; Luo, S. Q., *Biochem Biophys Res Commun*, **1994**, *205* (1), 618-624. DOI: 10.1006/bbrc.1994.2710
- "Characterization of Catalytically Active Sites on Aluminum Oxides, Hydroxyfluorides, and Fluorides in Correlation with Their Catalytic Behavior." Hess, A.; Kemnitz, E., *J Catal*, **1994**, *149* (2), 449-457. DOI: 10.1006/jcat.1994.1311
- "Spectroscopic Analysis and in situ Monitoring of Impregnation and Extraction of Polymer Films and Powders using Supercritical Fluids." Howdle, S. M.; Ramsay, J. M.; Cooper, A. I., *J Polym Sci, Part B*, **1994**, *32* (3), 541-549. DOI: 10.1002/polb.1994.090320315
- "Nonequilibrium Mass and Heat-Transport in Polymers - Spectroscopic Approach." Huang, J. B.; Urban, M. W., *J Chem Phys*, **1994**, *100* (6), 4509-4517. DOI: 10.1063/1.467226
- "A Comparison of Specular Reflection and PA-FTIR Techniques in the Analysis of Annealed Injection-Molded Polyamide 6,6." Jawhari, T.; Quintanilla, L.; Pastor, J. M., *J Appl Polym Sci*, **1994**, *51* (3), 463-471. DOI: 10.1002/app.1994.070510309
- "Pulse Photoacoustic Technique for Measuring Thermal Diffusivity." Korobov, A. I.; Odina, N. I.; Kokshaysky, I. N., *Instruments and Experimental Techniques*, **1994**, *37* (3), 380-383.
- "Organic Analysis of Hydrogen Cyanide Polymers: Prebiotic and Extraterrestrial Chemistry." Liebman, S. A.; Pescerodriguez, R. A.; Matthews, C. N.; In *Life Sciences and Space Research XXV (4) - Planetary Biology and Origins of Life*, Advances in Space Research, 1994; Vol. 15, pp 71-80.
- "The Effect of Polyurethane Curing Conditions on the Delamination of Pressure-Sensitive Films." Ludwig, B. W.; Urban, M. W., *Journal of Coatings Technology*, **1994**, *66* (839), 59-67.
- "A Study of Protein Secondary Structure by Fourier Transform Infrared/Photoacoustic Spectroscopy and Its Application for Recombinant Proteins." Luo, S.; Huang, C.-Y. F.; McClelland, J. F.; Graves, D. J., *Anal Biochem*, **1994**, *216* (1), 67-76. DOI: 10.1006/abio.1994.1009
- "Infrared Spectroscopy Studies of the Photooxidation of a Polyethylene Nonwoven Fabric." Martin, L. K.; Yang, C. Q., *J Environ Polymer Degradation*, **1994**, *2* (2), 153-160. DOI: 10.1007/BF02074783
- "Interfacial Analysis using Rheo-Photoacoustic Fourier Transform Infrared Spectroscopy." McDonald, W. F.; In *Moving Forward with 50 Years of Leadership in Advanced Materials - 39th International SAMPE Symposium and Exhibition, Vol 39, Books 1 and 2*, 1994; pp 2518-2529.
- "FT-IR PAS Steps Up to Depth Profiling." Noble, D., *Anal Chem*, **1994**, *66* (14), 757A-760A.
- "Observation of FT-IR/Photoacoustic and FT-IR/Photoacoustic Reflection-Absorption Spectra of Langmuir-Blodgett Films on a Metal Substrate." Ochiai, S.; McClelland, J. F.; Kobayashi, K.; Takaoka, K., *Appl Spectrosc*, **1994**, *48* (10), 1287-1289. DOI: 10.1366/0003702944027426
- "In Situ Formation of Polystyrene in Adsorbed Surfactant Bilayers on Precipitated Silica." O'Haver, J. H.; Harwell, J. H.; Orear, E. A.; Snodgrass, L. J.; Waddell, W. H., *Langmuir*, **1994**, *10* (8), 2588-2593. DOI: 10.1021/la00020a017
- "Applications of Thermogravimetry and PAS-FTIR in the Characterization of Silicone Sealants." Paroli, R. M.; Delgado, A. H.; Cole, K. C., *Canadian Journal of Applied Spectroscopy*, **1994**, *39* (1), 7-14.
- "Structural Analysis of Poly(ethylene terephthalate) Reinforced with Glass Fibre: 1. A Photoacoustic Fourier Transform Infra-red Study." Quintanilla, L.; Rodriguez-Cabello, J. C.; Jawhari, T.; Pastor, J. M., *Polymer*, **1994**, *35* (3), 514-518. DOI: 10.1016/0032-3861(94)90505-3
- "Quantitative Analysis of Kaolinite/Silica and Kaolinite/KBr Mixtures by Photoacoustic FT-IR Spectroscopy." Saffa, A. M.; Michaelian, K. H., *Appl Spectrosc*, **1994**, *48* (7), 871-874. DOI: 10.1366/0003702944030008
- "Infrared Spectroscopy Studies of the Petroleum Pitch Carbon Fiber--II. The Distribution of the Oxidation Products between the Surface and the Bulk." Simms, J. R.; Yang, C. Q., *Carbon*, **1994**, *32* (4), 621-626. DOI: 10.1016/0008-6223(94)90081-7
- "FT-IR Photoacoustic Depth Profiling Spectroscopy of Enamel." Sowa, M. G.; Mantsch, H. H., *Calcif Tissue Int*, **1994**, *54* (6), 481-485. DOI: 10.1007/BF00334328
- "Optically Pumped ¹³CD₃OH - Far-Infrared Laser Lines and Assignment." Telles, E. M.; Moraes, J. C. S.;

- Scalabrin, A.; Pereira, D.; Carelli, G.; Ioli, N.; Moretti, A.; Strumia, F., *IEEE Journal of Quantum Electronics*, **1994**, 30 (12), 2946-2949.
- "Effects of the Nd:YAG Laser and Combined Treatments on in vitro Fibroblast Attachment to Root Surfaces." Thomas, D.; Rapley, J.; Cobb, C.; Spencer, P.; Killoy, W., *Journal of Clinical Periodontology*, **1994**, 21 (1), 38-44. DOI: 10.1111/j.1600-051X.1994.tb00274.x
- "Surface and Interfacial Analysis of Polymers and Coatings using Photoacoustic FTIR Spectroscopy." Urban, M. W.; In *Surface and Interface Characterizations in Corrosion*, 1994; pp 109-133.
- "The Torsion Rotational Spectral Structure of Ethanol Molecules Adsorbed on Polycrystalline Silver Substrate." Wang, Z. Y.; Ng, C. F.; Lim, P. K.; Leung, H. W.; Wu, J. G.; Chen, H. F., *Journal of Physics-Condensed Matter*, **1994**, 6 (36), 7207-7215. DOI: 10.1088/0953-8984/6/36/005
- "Photooxidation and Thermal Oxidation of the Nonwoven Polypropylene Fabric Studied by FT-IR Photoacoustic Spectroscopy." Yang, C. Q.; Martin, L. K., *J Appl Polym Sci*, **1994**, 51 (3), 389-397. DOI: 10.1002/app.1994.070510301
- "CH₃¹⁸OH: Assignment of FIR Laser Lines Optically Pumped in the In-Plane CH₃-Rocking Band." Zhao, S.; Lees, R. M., *J Mol Spectrosc*, **1994**, 168 (1), 67-81. DOI: 10.1006/jmsp.1994.1260
- "Chemical Characterization of Sclerotic Dentin using FTIR Photoacoustic Spectroscopy." Adams, S.; Spencer, P.; Dixit, U.; Mixson, J.; Ahlert, J.; Vergotine, R., *J Dent Res*, **1993**, 72 (Special Issue-Abstracts), 258.
- "Fourier-Transform Infrared Photoacoustic Studies of Hydrogenated Diamond Surfaces." Ando, T.; Inoue, S.; Ishii, M.; Kamo, M.; Sato, Y.; Yamada, O.; Nakano, T., *J Chem Soc, Faraday Trans*, **1993**, 89 (4), 749-751. DOI: 10.1039/ft9938900749
- "Orientation Development in Injection Molded Plaque of Liquid-Crystal Copolyesteramide using Normal Incidence Specular Reflection." Bensaad, S.; Jasse, B.; Noel, C., *Polymer*, **1993**, 34 (8), 1602-1606. DOI: 10.1016/0032-3861(93)90315-2
- "Fourier Transform Infra-red Spectroscopic Study of Thermal Degradation in Poly(ether ether ketone) Carbon Composites." Cole, K. C.; Casella, I. G., *Polymer*, **1993**, 34 (4), 740-745. DOI: 10.1016/0032-3861(93)90357-G
- "Signal Processing in Step-Scan FTIR." Crocombe, R. A.; Leonardi, J. C.; Johnson, D. B.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 244-245. DOI: 10.1117/12.166794
- "Analysis of Photooxidation of Polymer Materials by Photoacoustic Fourier Transform Infra-Red Spectroscopy." Delprat, P.; Gardette, J.-L., *Polymer*, **1993**, 34 (5), 933-937. DOI: 10.1016/0032-3861(93)90210-2
- "Absolute Optical Absorption Spectra in Graphite Epoxy by Fourier Transform Infrared Photoacoustic Spectroscopy." Dubois, M.; Choquet, M.; Monchalain, J.-P.; Enguehard, F.; Bertrand, L., *Optical Engineering*, **1993**, 32 (9), 2255-2260. DOI: 10.1117/12.145067
- "Multivariate FTIR Analysis of Substrates for Protein, Polysaccharide, Lipid and Microbe Content: Potential for Solid-State Fermentations." Gordon, S. H.; Whatel, S. C.; Wheeler, B. C.; James, C., *Biotechnol Adv*, **1993**, 11 (3), 665-675. DOI: 10.1016/0734-9750(93)90035-L
- "Modification of a Research-Grade FT-IR Spectrometer for Optional Step-Scan Operation." Gregoriou, V. G.; Daun, M.; Schauer, M. W.; Chao, J. L.; Palmer, R. A., *Appl Spectrosc*, **1993**, 47 (9), 1311-1316. DOI: 10.1366/0003702934067649
- "Photoacoustic Fourier Transform Infrared Spectroscopy of Gases: A Nonequilibrium Approach." Huang, J.; Urban, M. W., *J Chem Phys*, **1993**, 98 (7), 5259-5268. DOI: 10.1063/1.464925
- "Nonequilibria in Polymer Systems - Photoacoustic FT-IR Approach." Huang, J. B.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1993**, 206, 102-POLY.
- "Nanoscale Metal Oxide Particles as Chemical Reagents. Intrinsic Effects of Particle Size on Hydroxyl Content and on Reactivity and Acid/Base Properties of Ultrafine Magnesium Oxide." Itoh, H.; Utamapanya, S.; Stark, J. V.; Klabunde, K. J.; Schlup, J. R., *Chem Mater*, **1993**, 5 (1), 71-77. DOI: 10.1021/cm00025a015
- "Photoacoustic Waves Generated by Absorption of Laser Radiation in Optically Thin Cylinders." Khan, M. I.; Sun, T.; Diebold, G. J., *J Acoust Soc Am*, **1993**, 94 (2), 931-940. DOI: 10.1121/1.408195
- "Photoacoustic Waves Generated by Absorption of Laser Radiation in Optically Thin Layers." Khan, M. I.; Sun, T.; Diebold, G. J., *J Acoust Soc Am*, **1993**, 93 (3), 1417-1425. DOI: 10.1121/1.405428
- "Comparison of Mid-IR with NIR in Polymer Analysis." Lee, K. A. B., *Appl Spectrosc Rev*, **1993**, 28 (3), 231-284. DOI: 10.1080/05704929308018113

- "Large Intramolecular Energy Flow in Vibrational Overtone Spectra of Cyclohexene-3,3,6,6-*d*₄." Lespade, L.; Rodin, S.; Cavagnat, D.; Abbate, S., *J Phys Chem*, **1993**, 97 (23), 6134-6141. DOI: 10.1021/j100125a009
- "Solid-State Infrared Photoacoustic Spectra of Group 6B Metal Mixed Carbonyl-*t*-Butylisocyanide Complexes, $M(\text{CO})_{6-n}(\text{Cn}^t\text{Bu})_n$ ($M = \text{Cr, Mo, W}; n = 1-3$)." Li, H.; Butler, I. S., *Appl Spectrosc*, **1993**, 47 (2), 218-221. DOI: 10.1366/0003702934048244
- "Quantitative Correlation of Ethyl Acetate Diffusion and Crystallinity in Poly(vinylidene fluoride) - Photoacoustic FTIR Approach." Ludwig, B. W.; Urban, M. W., *Polymer*, **1993**, 34 (16), 3376-3379. DOI: 10.1016/0032-3861(93)90463-K
- "Step-Scanning Interferometer with Digital Signal Processing." Manning, C. J.; Griffiths, P. R., *Appl Spectrosc*, **1993**, 47 (9), 1345-1349. DOI: 10.1366/0003702934067630
- "Vibrational Spectroscopy of C-H Bonds of Methane and Tetramethylsilane in Liquid Argon Solutions." Manzanares, C.; Brock, A.; Peng, J. P.; Blunt, V. M., *Chem Phys Lett*, **1993**, 207 (2-3), 159-166. DOI: 10.1016/0009-2614(93)87008-Q
- "A Practical Guide to FT-IR Photoacoustic Spectroscopy." McClelland, J. F.; Jones, R. W.; Luo, S.; Seaverson, L. M.; In *Practical Sampling Techniques for Infrared Analysis*, Coleman, P. B., Ed. CRC Press: Boca Raton, FL, 1993; pp 107-144.
- "Depth Profiling With Step-Scan FT-IR Photoacoustic Spectroscopy." McClelland, J. F.; Jones, R. W.; Ochiai, S.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 302-303. DOI: 10.1117/12.166579
- "Time-Resolved and Phase-Resolved Vibrational Spectroscopy by Use of Step-Scan FT-IR." Palmer, R. A.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 53-61. DOI: 10.1117/12.166800
- "Investigation of Time-Dependent Phenomena by Use of Step-Scan FT-IR." Palmer, R. A.; Chao, J. L.; Dittmar, R. M.; Gregoriou, V. G.; Plunkett, S. E., *Appl Spectrosc*, **1993**, 47 (9), 1297-1310. DOI: 10.1366/0003702934067568
- "Phase Analysis and Its Application in Step-Scan FT-IR Photoacoustic Depth Profiling." Palmer, R. A.; Jiang, E. Y.; Chao, J. L.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 250-251. DOI: 10.1117/12.166797
- "Quantitative Analysis of Clay Mixtures by Photoacoustic FT-IR Spectroscopy." Saffa, A. M.; Michaelian, K. H.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 566-567. DOI: 10.1117/12.166725
- "Vibrational Spectroscopy of Polymers: Analysis, Physics, and Process Control." Siesler, H. W.; In *Structure-Property Relations in Polymers; Spectroscopy and Performance*, Urban, M. W.; Craver, C. D., Eds.; Advances in Chemistry 236, ACS: 1993; pp 41-87. DOI: 10.1021/ba-1993-0236.ch002
- "Phase Modulated-Phase Resolved Photoacoustic FT-IR Study of Calcified Tissues." Sowa, M. G.; Mantsch, H. H.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 128-129. DOI: 10.1117/12.166730
- "Phase Correction and Two-Dimensional Correlation Analysis for Depth-Profiling Photoacoustic Step-Scan FT-IR Spectroscopy." Story, G. M.; Marcott, C.; Noda, I.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 242-243. DOI: 10.1117/12.166793
- "PAS/FT-IR Spectroscopy with a Step-Scan Interferometer." Stout, P. J.; Crocombe, R. A.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 300-301. DOI: 10.1117/12.166578
- "Stark Spectroscopy of ¹³CD₃OH with the HCN Laser." Sudhakaran, G. R.; Jackson, M.; Lees, R. M.; Xu, L. H.; Mukhopadhyay, I., *Infrared Physics*, **1993**, 34 (6), 661-665.
- "Surface and Interface Vibrational Spectroscopy - Relevance to Adhesion." Urban, M. W., *J Adhes Sci Technol*, **1993**, 7 (1), 1-47. DOI: 10.1163/156856193X00187
- "Photoacoustic Fourier-Transform Infrared Response to Thermal and Interfacial Changes in Polymers." Urban, M. W.; In *Structure-Property Relations in Polymers: Spectroscopy and Performance*, Urban, M. W.; Craver, C. D., Eds.; Advances in Chemistry Series Vol. 236, American Chemical Society: Washington, DC, 1993; pp 645-659. DOI: 10.1021/ba-1993-0236.ch026
- "Special Data Handling Techniques for Fourier-Transform Infrared Photo-acoustic Spectra: Estimation and Characterization of the N Contents On Ammoniated Trichlorosilylated Silica Gel, using Partial Least-squares Regression and Curve Fitting on the Si-H Stretching Vibration." Van Der Voort, P.;

- Swerts, J.; Vrancken, K. C.; Vansant, E. F.; Geladi, P.; Grobet, P., *J Chem Soc, Faraday Trans*, **1993**, 89 (1), 63-68. DOI: 10.1039/ft9938900063
- "The Thermal Behavior of the Ethylenebisdithiocarbamates Maneb, Zineb and Mancozeb. 3. Thermal Stability of Maneb, Zineb and Mancozeb." Wang, G. J.; Kong, Y. H.; Wu, C. Y.; Yin, C. M.; Wang, G. H.; Liu, Z. R., *Thermochim Acta*, **1993**, 220, 237-244. DOI: 10.1016/0040-6031(93)80468-P
- "Near-Infrared Photoacoustic Spectra of Model Homo-Polypeptides." Wang, J.; Ahmed, M. K.; Sowa, M. G.; Mantsch, H. H.; 9th International Conference on Fourier Transform Spectroscopy, Bertie, J. E.; Wieser, H., Eds.; SPIE, Vol. 2089; 1993, 492-493. DOI: 10.1117/12.166684
- "Thermal Degradation of Cotton Cellulose Studied by Fourier-Transform Infrared Photoacoustic Spectroscopy." Yang, C. Q.; Freeman, J. M.; In *Structure-Property Relations in Polymers: Spectroscopy and Performance*, Urban, M. W.; Craver, C. D., Eds.; Advances in Chemistry Series Vol. 236, American Chemical Society: Washington, DC, 1993; pp 693-708. DOI: 10.1021/ba-1993-0236.ch029
- "Infrared Spectroscopy Studies of the Petroleum Pitch Carbon Fiber--I. The Raw Materials, the Stabilization, and Carbonization Processes." Yang, C. Q.; Simms, J. R., *Carbon*, **1993**, 31 (3), 451-459. DOI: 10.1016/0008-6223(93)90133-U
- "Infrared Photoacoustic and Dynamic Mechanical Spectroscopy of Sheet-Molded Compounds." Allen, G. M.; Wu, G. L.; Prentice, S. A., *J Appl Polym Sci*, **1992**, 44 (2), 213-224. DOI: 10.1002/app.1992.070440204
- "Phase Fourier Transform Infrared Photoacoustic Spectroscopy." Bertrand, L.; In *14th International Congress on Acoustics, Proceedings, Vols 1-4*, Beijing, China, 1992; pp 213-214.
- "Infrared Photoacoustic Spectra of Gaseous Pentacarbonyl(Methyl)Manganese(I) and Pentacarbonyl(Methyl)Rhenium(I)." Butler, I. S.; Gilson, D. F. R.; Lafleur, D., *Appl Spectrosc*, **1992**, 46 (11), 1605-1607. DOI: 10.1366/0003702924926754
- "The Application of Linear PA/FT-IR to Polymer-Related Problems." Carter, R. O., III, *Appl Spectrosc*, **1992**, 46 (2), 219-224. DOI: 10.1366/0003702924125410
- "Fourier Transform Intracavity Laser Absorption Spectra of the 6 ν_1 Band of CHD₃." Domingo, C.; del Olmo, A.; Escribano, R.; Bermejo, D.; Orza, J. M., *J Chem Phys*, **1992**, 96 (2), 972-975. DOI: 10.1063/1.462117
- "Fourier-Transform Infrared Photo-acoustic Spectroscopy Study of the Free Hydroxyl Group Vibration: Dependence on the Pretreatment Temperature." Gillis-D'Hamers, I.; Vrancken, K. C.; Vansant, E. F.; De Roy, G., *J Chem Soc, Faraday Trans*, **1992**, 88 (14), 2047-2050. DOI: 10.1039/ft9928802047
- "Detection of Fungal Contamination in Corn: Potential of FTIR-PAS and -DRS." Greene, R. V.; Gordon, S. H.; Jackson, M. A.; Bennett, G. A.; McClelland, J. F.; Jones, R. W., *J Agric Food Chem*, **1992**, 40 (7), 1144-1149. DOI: 10.1021/jf00019a011
- "¹³C CP/MAS NMR Study of Photodegraded Stoneground Wood Pulp." Kimura, T.; Kimura, F.; Argyropoulos, D. S.; Gray, D. G., *Holzforchung*, **1992**, 46 (4), 331-336. DOI: 10.1515/hfsg.1992.46.4.331
- "Speciation of Uranium in Aqueous Solutions and in Precipitates by Photoacoustic Spectroscopy." Kimura, T.; Serrano, J.; Nakayama, S.; Takahashi, K.; Takeishi, H., *Radiochimica Acta*, **1992**, 58-9, 173-178.
- "Infrared Photoacoustic Spectra of the Solid Manganese(I) Carbonyl Halides, Mn(CO)₅X and [Mn(CO)₄X]₂ (X = Cl, Br, I)." Li, H.; Butler, I. S., *Appl Spectrosc*, **1992**, 46 (12), 1785-1789. DOI: 10.1366/0003702924123557
- "The Mobility of Ethyl Acetate in Poly(Vinylidene Fluoride) - Rheophotoacoustic Fourier-Transform Infrared Studies." Ludwig, B. W.; Urban, M. W., *Polymer*, **1992**, 33 (16), 3343-3350. DOI: 10.1016/0032-3861(92)91090-O
- "FTIR Photoacoustic Spectroscopic Analysis of Structural Variation in Dentin." Marshall, L. L.; Spencer, P., *J Dent Res*, **1992**, 71 (Supplement 1), 265.
- "FTIR Photoacoustic Spectroscopy Applications in Qualitative and Quantitative Analyses of Solid Samples." McClelland, J. F.; Luo, S.; Jones, R. W.; Seaverson, L. M.; In *8th International Conference on Fourier Transform Spectroscopy*, Heise, H. M.; Korte, E. H.; Siesler, H. W., Eds.; Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE) SPIE: 1992; Vol. 1575, pp 226-227.
- "FTIR Techniques for the Analysis of Coating Problems - Solid Sampling Accessories." Millon, A. M.; Julian, J. M.; In *Analysis of Paints and Related Materials: Current Techniques for Solving Coatings Problems*, American Society for Testing and Materials Special Technical Publication 1119, 1992; pp 173-195.
- "Spectroscopy of the Excited C-O Stretching Q Branch of ¹³CD₃OH: Measurement and Assignment of New

- FIR Laser Lines." Moraes, J. C. S.; Scalabrin, A.; Pereira, D.; Carelli, G.; Ioli, N.; Moretti, A.; Strumia, F., *Infrared Physics*, **1992**, 33 (2), 133-139. DOI: 10.1016/0020-0891(92)90004-D
- "Experimental Investigation of $^{13}\text{CD}_3\text{OH}$ Infrared Transitions by Means of Optoacoustic Spectroscopy." Moraes, J. C. S.; Telles, E. M.; Cruz, F. C.; Scalabrin, A.; Pereira, D.; Carelli, G.; Ioli, N.; Moretti, A.; Strumia, F., *International Journal of Infrared and Millimeter Waves*, **1992**, 13 (11), 1801-1823. DOI: 10.1007/BF01010747
- "Surface Characterization of Gamma-Iron Oxides For Magnetic Memory Media Using Fourier Transform Infrared Photoacoustic Spectroscopy." Nishikawa, Y.; Kimura, K.; Matsuda, A.; Kenpo, T., *Appl Spectrosc*, **1992**, 46 (11), 1695-1698. DOI: 10.1366/0003702924926934
- "New Sensor Developments." Rutledge, W. C., *ISA Trans*, **1992**, 31 (4), 39-44. DOI: 10.1016/0019-0578(92)90128-6
- "Ground Based Measurements of Atmospheric Gases by Spectroscopic Methods." Schiff, H. I., *Berichte der Bunsen-Gesellschaft-Physical Chemistry Chemical Physics*, **1992**, 96 (3), 296-306.
- "Chemical Characterization of the Dentin Adhesive Interface by Fourier-Transform Infrared Photoacoustic Spectroscopy." Spencer, P.; Byerley, T. J.; Eick, J. D.; Witt, J. D., *Dent Mater*, **1992**, 8 (1), 10-15. DOI: 10.1016/0109-5641(92)90046-F
- "FTIR Photoacoustic Spectroscopic Analysis of Healing Canine Tibial Defects." Spencer, P.; Gorski, J. P., *Bone and Mineral*, **1992**, 17 (2), 311-312. DOI: 10.1016/0169-6009(92)90776-A
- "FTIR Photoacoustic Spectroscopic Analysis of Healing Bone Defects." Spencer, P.; Gorski, J. P.; Cobb, C. M., *J Dent Res*, **1992**, 71 (Supplement 1), 307.
- "Chemical Characterization of Lased Root Surfaces Using Fourier-Transform Infrared Photoacoustic Spectroscopy." Spencer, P.; Trylovich, D. J.; Cobb, C. M., *Journal of Periodontology*, **1992**, 63 (7), 633-636.
- "Photoacoustic Fourier-Transform IR Spectroscopic Study of Polymer Dentin Interaction." Stangel, I.; Ostro, E.; In *Polymer - Solid Interfaces*, 1992; pp 157-167.
- "Direct Characterization of Tire Materials By Photoacoustical Infrared and Proton-Induced X-Ray-Emission Spectroscopy." Waddell, W. H.; Parker, J. R., *Rubber Chem Technol*, **1992**, 65 (4), 836-850.
- "Infrared Spectroscopic Analysis of Textile Materials Degradation Using Photoacoustic Detection." Yang, C. Q., *Ind Eng Chem Res*, **1992**, 31 (2), 617-621. DOI: 10.1021/ie00002a026
- "Structure Tailoring of Alkoxide Silica." Ying, J. Y.; Benziger, J. B., *J Non-Cryst Solids*, **1992**, 147, 222-231. DOI: 10.1016/S0022-3093(05)80621-0
- "Application of Infrared Absorption and Fourier Transformed Infrared Photoacoustic Spectra for Investigating Molecular Vibrations in Europium Chelates." Zachara, S.; Sikorska, A.; Acousto-Optics and Applications, Sliwinski, A.; Kwiek, P.; Linde, B.; Markiewicz, A., Eds.; SPIE, Vol. 1844; 1992, 329-332. DOI: 10.1117/12.131939
- "High-Resolution Photoacoustic Ti-Sapphire Dye Ring Laser Spectrometer." Zhan, X. W.; Kauppi, E.; Halonen, L., *Rev Sci Instrum*, **1992**, 63 (12), 5546-5551. DOI: 10.1063/1.1143379
- "FT-IR Photoacoustic and X-Ray Diffraction Study of Orientation of an Injection-Molded Liquid-Crystalline Poly(Ester-Amide)." Barres, O.; Friedrich, C.; Jasse, B.; Noel, C., *Makromolekulare Chemie, Macromolecular Symposia*, **1991**, 52, 161-174. DOI: 10.1002/masy.19910520115
- "Comparison of Photoacoustic, Attenuated Total Reflection, and Transmission Infrared Spectra of Crystalline Organoiron(II) Carbonyl Complexes." Butler, I. S.; Li, H.; Gao, J. P., *Appl Spectrosc*, **1991**, 45 (2), 223-226. DOI: 10.1366/0003702914337425
- "Evaluation of the Appropriate Sample Position in a PAS/FT-IR Experiment." Carter, R. O., III; Wright, S. L., *Appl Spectrosc*, **1991**, 45 (7), 1101-1103. DOI: 10.1366/0003702914336101
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Polymers Adsorbed from Solution by Gamma-Iron Oxide." Cook, L. E.; Luo, S. Q.; McClelland, J. F., *Appl Spectrosc*, **1991**, 45 (1), 124-126. DOI: 10.1366/0003702914337731
- "Fermi Resonance in the Overtone Spectra of the CH Chromophore in CHBr_3 . 2. Visible Spectra." Davidsson, J.; Gutow, J. H.; Zare, R. N.; Hollenstein, H. A.; Marquardt, R. R.; Quack, M., *J Phys Chem*, **1991**, 95 (3), 1201-1209. DOI: 10.1021/j100156a031
- "Photoacoustic Depth Profiling of Polymer Laminates by Step-Scan Fourier Transform Infrared Spectroscopy." Dittmar, R. M.; Chao, J. L.; Palmer, R. A., *Appl Spectrosc*, **1991**, 45 (7), 1104-1110. DOI: 10.1366/0003702914336138
- "Applications of Step-Scan FT-IR Photoacoustic Depth Profiling." Dittmar, R. M.; Palmer, R. A.; Chao, J. L.; 8th International Conference on Fourier Transform Spectroscopy, Heise, H. M.; Korte, E. H.; Siesler, H.

- W., Eds.; SPIE, Vol. 1575; 1991, 197-198. DOI: 10.1117/12.56297
- "Depth Profiling of Multi-Layer Polymer Systems Using FTIR Phase Analysis Photoacoustic Spectroscopy." Dolby, P. A.; McIntyre, R., *Polymer*, **1991**, 32 (4), 586-589. DOI: 10.1016/0032-3861(91)90468-X
- "Surface and Interfacial FTIR Spectroscopic Studies of Latexes. 1. Surfactant Copolymer Interactions." Evanson, K. W.; Urban, M. W., *J Appl Polym Sci*, **1991**, 42 (8), 2287-2296. DOI: 10.1002/app.1991.070420820
- "Determination of Residual Unsaturation in Photo-Cured Acrylate Formulations Using Photoacoustic FT-IR Spectroscopy." Factor, A.; Tilley, M. G.; Codella, P. J., *Appl Spectrosc*, **1991**, 45 (1), 135-138. DOI: 10.1366/0003702914337777
- "Surface Cristobalite Formation by Mild Hydrothermal Treatment of Silica Gel and Its Effect on the Deposition of Tris(allyl)rhodium and Subsequent Reactivity of (silica)Rh(allyl)₂." Fischer, H. E.; King, S. A.; Miller, J. B.; Ying, J. Y.; Benziger, J. B.; Schwartz, J., *Inorg Chem*, **1991**, 30 (23), 4403-4408. DOI: 10.1021/ic00023a023
- "Chemistry of Fresh and Weathered Resinites - An Infrared Photoacoustic Spectroscopic Study." Goodarzi, F.; McFarlane, R. A., *Int J Coal Geol*, **1991**, 19 (1-4), 283-301. DOI: 10.1016/0166-5162(91)90024-D
- "The Destruction-Free Analysis of Polymers by Fourier-Transform Infrared Photoacoustic and Fourier-Transform Raman-Spectroscopy - A Comparison." Grose, R. I.; Hvilsted, S.; Siesler, H. W., *Makromolekulare Chemie-Macromolecular Symposia*, **1991**, 52, 175-189. DOI: 10.1002/masy.19910520116
- "Photoacoustic Measurement of Absolute Overtone Cross Sections." Gutow, J. H.; Davidsson, J.; Zare, R. N., *Chem Phys Lett*, **1991**, 185 (1-2), 120-124. DOI: 10.1016/0009-2614(91)80151-M
- "Nanoscale Metal Oxide Particles as Chemical Reagents. Destructive Adsorption of a Chemical Agent Simulant, Dimethyl Methylphosphonate, on Heat-Treated Magnesium Oxide." Li, Y.-X.; Klabunde, K. J., *Langmuir*, **1991**, 7 (7), 1388-1393. DOI: 10.1021/la00055a017
- "Fourier Transform Infrared Photoacoustic Spectroscopy Study of the Adsorption of Organophosphorus Compounds on Heat-Treated Magnesium Oxide." Li, Y.-X.; Schlup, J. R.; Klabunde, K. J., *Langmuir*, **1991**, 7 (7), 1394-1399. DOI: 10.1021/la00055a018
- "An Investigation of Interfacial Interactions between RDX and Polymer Binders by FTIR Photoacoustic Spectroscopy." Liu, Y. L.; Wang, Y.; Ren, S. X.; Jiang, C. W.; 17th International Pyrotechnics Seminar Combined with the 2nd Beijing International Symposium on Pyrotechnics and Explosives, Ou, Y. X.; Feng, C. G.; Zhang, B. P., Eds.; Beijing Institute of Technology Press, Vol. 1; 1991, 347-352.
- "FTIR Photoacoustic Spectroscopy Applications in Qualitative and Quantitative Analyses of Solid Samples." McClelland, J. F.; Luo, S.; Jones, R. W.; Seaverson, L. M.; 8th International Conference on Fourier Transform Spectroscopy, H. M. Heise, E. H. K., and H. W. Siesler, Ed. SPIE, Vol. 1575; 1991, 226-227. DOI: 10.1117/12.56355
- "Chemical Structures at the Nextel Fiber/Polyimide Matrix Interface Detected by Photoacoustic FTIR Spectroscopy." McDonald, W. F.; Urban, M. W., *Composites*, **1991**, 22 (4), 307-318. DOI: 10.1016/0010-4361(91)90007-4
- "Depth Profiling of Oxidized Coal by Step-Scan Photoacoustic FT-IR Spectroscopy." Michaelian, K. H., *Appl Spectrosc*, **1991**, 45 (2), 302-304. DOI: 10.1366/0003702914337515
- "Signal Averaging of Photoacoustic FT-IR Data-II. Incoherent Co-Adding and Interferogram Symmetrization." Michaelian, K. H.; Birch, J. R., *Infrared Physics*, **1991**, 31 (5), 527-537. DOI: 10.1016/0020-0891(91)90033-C
- "Infrared Photoacoustic Spectra of Adsorbed Species on Fine Particles of Metal and Metal Oxide." Nakao, Y.; Yamada, H.; Yamada, M.; 8th International Conference on Fourier Transform Spectroscopy, Heise, H. M.; Korte, E. H.; Siesler, H. W., Eds.; SPIE, Vol. 1575; 1991, 538-539. DOI: 10.1117/12.56337
- "Applications of Photoacoustic Spectroscopy to Speciation of Lanthanide Elements in Aqueous Solutions and of Solid Phase." Nakayama, S.; Kimura, T., *J Nucl Sci Technol*, **1991**, 28 (8), 780-783.
- "Photoacoustic FT-IR Study on Keratin Chemically Bound on the Surface of Silica Gel Particles." Nishio, E.; Abe, I.; Ikuta, N.; Koga, J.; Okabayashi, H.; Nishikida, K., *Appl Spectrosc*, **1991**, 45 (3), 496-497. DOI: 10.1366/0003702914337254
- "Characterization of Coal and Coal Products - FTIR Spectroscopy." Papendorf, U.; Riepe, W., *Erdol and Kohle Erdgas Petrochemie*, **1991**, 44 (3), 118-120.
- "Applications of Fourier Transform Infrared Photoacoustic Spectroscopy to Solid Propellant Characterization." Pesce-Rodriguez, R. A.; Fifer, R. A., *Appl Spectrosc*, **1991**, 45 (3), 417-419. DOI: 10.1366/0003702914337074

- "Listening to Vibrating Atoms - Photoacoustic FT-IR Spectroscopy of Polymers." Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1991**, 201, 19-PMSE.
- "Photoacoustic Enhancement of Surface IR Modes in Zeolite Channels." Wang, H. P.; Eyring, E. M.; Huai, H. Y., *Appl Spectrosc*, **1991**, 45 (5), 883-885. DOI: 10.1366/0003702914336499
- "Studies of Thermal Oxidation and Degradation of Cotton Cellulose using FT-IR Photoacoustic Spectroscopy." Yang, C. O.; Freeman, J. M., *Abstracts of Papers of the American Chemical Society*, **1991**, 201, 20-PMSE.
- "Comparison of Photoacoustic and Diffuse Reflectance Infrared Spectroscopy as Near-Surface Analysis Techniques." Yang, C. Q., *Appl Spectrosc*, **1991**, 45 (1), 102-108. DOI: 10.1366/0003702914337821
- "Characterizing Ester Crosslinkages in Cotton Cellulose with FT-IR Photoacoustic Spectroscopy." Yang, C. Q., *Textile Research Journal*, **1991**, 61 (5), 298-305. DOI: 10.1177/004051759106100509
- "Infrared Spectroscopic Studies of the Nonformaldehyde Durable Press Finishing of Cotton Fabrics by Use of Polycarboxylic Acids." Yang, C. Q.; Andrews, B. A. K., *J Appl Polym Sci*, **1991**, 43 (9), 1609-1616. DOI: 10.1002/app.1991.070430904
- "Photo-Oxidation of Cotton Cellulose Studied By FT-IR Photoacoustic Spectroscopy." Yang, C. Q.; Freeman, J. M., *Appl Spectrosc*, **1991**, 45 (10), 1695-1698. DOI: 10.1366/0003702914335274
- "FTIR-PAS Investigation on Polyphenylene Sulfide." Zhang, G.; Wang, Q.; Yu, X.; Su, D.; Li, Z.; Zhang, G., *Spectrochim Acta, Part A*, **1991**, 47 (6), 737-741. DOI: 10.1016/0584-8539(91)80144-8
- "Characterization for α -Al₂O₃ and Some Hydrated Aluminas by Fourier-Transform Infrared Photoacoustic Spectroscopy." Arato, T.; Tochigi, K.; Tamamura, T., *Nippon Seramikkusu Kyokai Gakujutsu Ronbunshi [Journal of the Ceramic Society of Japan]*, **1990**, 98 (7), 726-731.
- "Siloxane Bridges as Reactive Sites on Silica Gel: Fourier Transform Infrared-Photoacoustic Spectroscopic Analysis of the Chemisorption of Diborane." Gillis-D'Hamers, I.; Philippaerts, J.; Van Der Voort, P.; Vansant, E., *J Chem Soc, Faraday Trans*, **1990**, 86 (22), 3747-3750. DOI: 10.1039/ft9908603747
- "Measurement of Protein Biomass by Fourier-Transform Infrared Photoacoustic Spectroscopy." Gordon, S. H.; Greene, R. V.; Freer, S. N.; James, C., *Biotechnol Appl Biochem*, **1990**, 12 (1), 1-10. DOI: 10.1111/j.1470-8744.1990.tb00076.x
- "Study of the Gardener Type Complexities Generated by Nociceptive Modulators Using Fourier Transform IR NMR UV Visible and Double Beam Photoacoustic Spectroscopic Methods." Kumar, S.; Bajaj, M. M.; Singh, V. R., *Pain*, **1990**, (Supplement 5), S52.
- "N-Substituted Polyanilines II. Photoacoustic and FT-IR Spectra of Poly(*N*-methylaniline) and Related Copolymers." Langer, J. J., *Synth Met*, **1990**, 35 (3), 301-305. DOI: 10.1016/0379-6779(90)90214-6
- "Depth Profiling by Fourier Analysis of Photoacoustic Signals." Lauriks, W.; Glorieux, C.; Thoen, J.; International Symposium on Physical Acoustics, Leroy, O.; Breazeale, M. A., Eds.; Plenum Press, 1990, 433-439.
- "Interaction of 7,7,8,8-Tetracyanoquinodimethane with Diacylphosphatidylcholines and Diacylphosphatidylglycerols - A Photoacoustic Fourier-Transform Infrared Study." Lotta, T. I.; Tulkki, A. P.; Virtanen, J. A.; Kinnunen, P. K. J., *Chem Phys Lipids*, **1990**, 52 (1), 11-27. DOI: 10.1016/0009-3084(90)90003-A
- "FTIR Spectroscopy with Photoacoustic Detection." McClelland, J. F.; Jones, R. W.; Luo, S.; Seaverson, L. M.; International Workshop on Fourier Transform Infrared Spectroscopy (1990), Vansant, E. F., Ed. University of Antwerp, 1990, 64-74.
- "An On-Line NIR Analyzer for Fluid, Food, Water, and Fat Content." McQueen, D. H., *International Laboratory*, **1990**, 20 (1), 16-28.
- "Adaptation of Photoacoustic Fourier Transform Infrared Spectroscopy for Studying the Thermal Oxidation of Nylon 66 At 150 °C Correlated to Mechanical Properties." Murty, E. M.; Yehl, T. W., *Polym Eng Sci*, **1990**, 30 (24), 1595-1598. DOI: 10.1002/pen.760302407
- "Effect of Particle Size and Modulation Frequency on the Photoacoustic Spectra of Silica Powders." Pandurangi, R. S.; Seehra, M. S., *Anal Chem*, **1990**, 62 (18), 1943-1947. DOI: 10.1021/ac00217a009
- "Non-Destructive Quality Control of Tablets by Photoacoustic IR Spectrometry Analysis under Primary Packaging." Piva, F.; Huvenne, J. P.; Traisnel, M., *Annales Pharmaceutiques Francaises*, **1990**, 48 (2), 94-102.
- "Probing Polymer Structures by Photoacoustic Fourier-Transform Infrared Spectroscopy." Urban, M. W.; Gaboury, S. R.; McDonald, W. F.; Tiefenthaler, A. M.; In *Polymer Characterization - Physical Property, Spectroscopy, and Chromatographic Methods*, Craver, C. D.; Provder, T., Eds.; Advances in

- Chemistry Series 227, ACS: Washington, DC, 1990, pp 287-313. DOI: 10.1021/ba-1990-0227.ch017
- "Recent Developments in Depth Profiling from Surfaces Using FT-IR Spectroscopy." Urban, M. W.; Koenig, J. L.; In *Applications of FT-IR Spectroscopy*, Durig, J. R., Ed. Vibrational Spectra and Structure Vol. 18; Elsevier: Amsterdam, 1990; pp 127-181.
- "Probing Organic Inorganic Interactions and Curing Processes in Coatings by Photoacoustic Fourier-Transform Infrared Spectroscopy." Urban, M. W.; Salazarrojas, E. M., *J Polym Sci, Part A*, **1990**, *28* (6), 1593-1613. DOI: 10.1002/pola.1990.080280624
- "Fourier Transform Mid-Infrared Spectroscopy for Food Analysis." Wilson, R. H., *TrAC-Trends in Analytical Chemistry*, **1990**, *9* (4), 127-131. DOI: 10.1016/0165-9936(90)87106-V
- "Studies of Chemically Modified Poly(ethylene terephthalate) Fibers by FT-IR Photoacoustic Spectroscopy and X-Ray Photoelectron Spectroscopy." Yang, C. Q.; Bresee, R. R.; Fateley, W. G., *Appl Spectrosc*, **1990**, *44* (6), 1035-1039. DOI: 10.1366/0003702904086696
- "Fourier-Domian Analysis of Complex Line Shapes." Bostick, J. M.; Carreira, L. A., *Appl Spectrosc*, **1989**, *43* (1), 38-44. DOI: 10.1366/0003702894201905
- "Comparison of Sample Preparation Methods for the Fourier Transform Infrared Analysis of an Organo-Clay Mineral Sorption Mechanism." Bowen, J. M.; Compton, S. V.; Blanche, M. S., *Anal Chem*, **1989**, *61* (18), 2047-2050. DOI: 10.1021/ac00193a009
- "Energy-Transfer from Optoacoustic Measurements and Fourier Transform Deconvolution." Braun, W.; Price, I.; Cadoff, B. C.; Peterson, N. C., *Int J Chem Kinet*, **1989**, *21* (11), 1029-1047. DOI: 10.1002/kin.550211106
- "The Characterization of Polymer Surfaces by Photoacoustic Fourier Transform Infrared Spectroscopy." Carter, R. O., III; Paputa Peck, M. C.; Bauer, D. R., *Polym Degrad Stab*, **1989**, *23* (2), 121-134. DOI: 10.1016/0141-3910(89)90083-9
- "Infrared Photoacoustic Spectroscopy of Carbon Black Filled Rubber: Concentration Limits for Samples and Background." Carter, R. O., III; Paputa Peck, M. C.; Samus, M. A.; Killgoar, P. C., Jr., *Appl Spectrosc*, **1989**, *43* (8), 1350-1354. DOI: 10.1366/0003702894204489
- "Photoacoustic Detection of Rapid-Scan Fourier Transform Infrared Spectra from Low-Surface-Area Solid Samples." Carter, R. O., III; Peck, M. C. P., *Appl Spectrosc*, **1989**, *43* (3), 468-473. DOI: 10.1366/0003702894202832
- "Background Spectra for Rapid- or Step-Scan FTIR Depth Profiling." Carter, R. O. I.; Palmer, R. A.; Dittmar, R. M.; Manning, C. J.; Bains, S. S.; Chao, J. L.; 7th International Conference on Fourier Transform Spectroscopy, Cameron, D. G., Ed. SPIE, Vol. 1145; 1989, 362-363. DOI: 10.1117/12.969501
- "Investigation of Linear Dichroism in Coals using Polarized Photoacoustic FTIR." Cody, G. D.; Larsen, J. W.; Siskin, M., *Energy Fuels*, **1989**, *3* (5), 544-551. DOI: 10.1021/ef00017a002
- "Crosslinking of Polyester Styrene Detected by Thermal Photoacoustic Fourier-Transform Infrared Spectroscopy." Gaboury, S. R.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1989**, 197, 194-PMSE.
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Synthetic Polymers." Jasse, B., *Journal of Macromolecular Science-Chemistry*, **1989**, *A26* (1), 43-67. DOI: 10.1080/00222338908053843
- "PA-FTIR Detection of External Lubricants in Styrenic Polymers." Kumar, T.; Yock, K. E.; 7th International Conference on Fourier Transform Spectroscopy, Cameron, D. G., Ed. SPIE, Vol. 1145; 1989, 112-115. DOI: 10.1117/12.969383
- "Recent Advances in FTIR Photoacoustic Spectroscopy." McClelland, J. F.; Jones, R. W.; Oh, J. S.; Seaverson, L. M.; Seventh International Conference on Fourier Transform Spectroscopy, Cameron, D. G., Ed. SPIE, Vol. 1145; 1989, 379. DOI: 10.1117/12.969512
- "A Novel Approach to Photoacoustic FT-IR Spectroscopy: Rheo-Photoacoustic Measurements." McDonald, W. F.; Goettler, H.; Urban, M. W., *Appl Spectrosc*, **1989**, *43* (8), 1387-1393. DOI: 10.1366/0003702894204452
- "A Novel Rheo-Photoacoustic FT-IR Technique to Monitor Deformations in Polymers." McDonald, W. F.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1989**, 197, 165-PMSE.
- "Depth Profiling and Signal Saturation in Photoacoustic FT-IR Spectra Measured With a Step-Scan Interferometer." Michaelian, K. H., *Appl Spectrosc*, **1989**, *43* (2), 185-190. DOI: 10.1366/0003702894203309
- "Interferogram Symmetrization and Multiplicative Phase Correction of Rapid-Scan and Step-Scan Photoacoustic FT-IR Data." Michaelian, K. H., *Infrared Physics*, **1989**, *29* (1), 87-100. DOI: 10.1016/0020-0891(89)90009-2

- "Observation of FTIR-PA Spectra of Langmuir-Blodgett Films of Cadmium Arachidate on Glass Plates." Nakanaga, T.; Matsumoto, M.; Kawabata, Y.; Takeo, H.; Matsumura, C., *Chem Phys Lett*, **1989**, 160 (2), 129-133. DOI: 10.1016/0009-2614(89)87569-4
- "Thermal Degradation of a Poly(Vinyl Formal)-Containing Adhesive Film on a Polyethylene Rubber Surface. A Photoacoustic Fourier Transform Infrared Spectroscopic Investigation." Nguyen, T. T., *J Appl Polym Sci*, **1989**, 38 (4), 765-778. DOI: 10.1002/app.1989.070380414
- "Computer Simulations of Depth Profiling by Photoacoustic Infrared Spectroscopy." Perkins, J. H.; Griffiths, P. R.; 7th International Conference on Fourier Transform Spectroscopy, Cameron, D. G., Ed. SPIE, Vol. 1145; 1989, 360-361. DOI: 10.1117/12.969500
- "Bound Water in Collagen - Evidence from Fourier-Transform Infrared and Fourier-Transform Infrared Photoacoustic Spectroscopic Study." Renugopalakrishnan, V.; Chandrakasan, G.; Moore, S.; Hutson, T. B.; Berney, C. V.; Bhatnagar, R. S., *Macromolecules*, **1989**, 22 (10), 4121-4124. DOI: 10.1021/ma00200a054
- "Curing of Non-Pigmented Alkyd Coatings Detected by In situ Photoacoustic Fourier-Transform Infrared Spectroscopy (PA FT-IR)." Salazarrojas, E. M.; Urban, M. W., *Prog Org Coat*, **1989**, 16 (4), 371-386. DOI: 10.1016/0033-0655(89)80004-4
- "Photoacoustic FT-IR Analysis of Surface-Modified Kevlar 49® Fibers." Tidrick, S. L.; Koenig, J. L., *J Adhes*, **1989**, 29 (1-4), 43-51. DOI: 10.1080/00218468908026476
- "Stability of Nextel Fibers in Aqueous Environments Detected by Photoacoustic Fourier Transform Infrared Spectroscopy." Tiefenthaler, A. M.; Urban, M. W., *Composites*, **1989**, 20 (6), 585-588. DOI: 10.1016/0010-4361(89)90918-X
- "Thermal Stability of Silane Coupling Agents on Nextel Fibres." Tiefenthaler, A. M.; Urban, M. W., *Composites*, **1989**, 20 (2), 145-150.
- "Recent Advances in the Analysis of Polymers and Coatings by Photoacoustic FT-IR Spectroscopy." Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1989**, 198, 29-PMSE.
- "Recent Advances in Coatings Characterization by Photoacoustic FT-IR Spectroscopy." Urban, M. W., *Prog Org Coat*, **1989**, 16 (4), 321-353. DOI: 10.1016/0033-0655(89)80002-0
- "On the Sensitivity of Photoacoustic Fourier-Transform Infrared Spectroscopy to Cross-Linking Reactions." Urban, M. W.; Gaboury, S. R., *Macromolecules*, **1989**, 22 (3), 1486-1487. DOI: 10.1021/ma00193a081
- "Studies of Foam Finished Cotton Fabrics Using FT-IR Photoacoustic Spectroscopy." Yang, C. Q.; Perenich, T. A.; Fateley, W. G., *Textile Research Journal*, **1989**, 59 (10), 562-568. DOI: 10.1177/004051758905901002
- "Studies of FT-IR-PAS Spectra of Polyphenylene Sulfide." Zhang, G.; Li, Z.; Zhang, G.; Zeng, H., *Acta Physico-Chimica Sinica*, **1989**, 5 (1), 91-94.
- "Quantitative Analysis by Fourier Transform Infrared Photoacoustic Spectroscopy." Belton, P. S.; Saffa, A. M.; Wilson, R. H.; In *Recent Developments and Applications of Infrared Analytical Instrumentation*, Proceedings of the SPIE Vol. 917, 1988, pp 72-77. DOI: 10.1117/12.945587
- "The Potential of Fourier Transform Infrared Spectroscopy for the Analysis of Confectionery Products." Belton, P. S.; Saffa, A. M.; Wilson, R. H.; Ince, A. D., *Food Chem*, **1988**, 28 (1), 53-61. DOI: 10.1016/0308-8146(88)90006-4
- "Advantages of Phase Analysis in Fourier Transform Infrared Photoacoustic Spectroscopy." Bertrand, L., *Appl Spectrosc*, **1988**, 42 (1), 134-138. DOI: 10.1366/0003702884428644
- "Silk Degradation Examined by FT-IR Photoacoustic Spectroscopy." Bresee, R. R.; Yang, C. Q.; Vanpoursem, K. T., *Abstracts of Papers of the American Chemical Society*, **1988**, 196, 70-CELL.
- "Resin Characterization in Carbon-Fiber Reinforced Prepregs Using Photoacoustic FTIR." Chalmers, J. M.; Wilson, J., *Mikrochim Acta*, **1988**, 95 (1-6), 109-111. DOI: 10.1007/BF01349732
- "Quantitative Analysis and Orientation of Langmuir-Blodgett Films by Photoacoustic Fourier Transform Infrared Spectroscopy." Chatzi, E. G.; Urban, M. W.; Ishida, H.; Koenig, J. L.; Laschewski, A.; Ringsdorf, H., *Langmuir*, **1988**, 4 (4), 846-855. DOI: 10.1021/la00082a012
- "In situ Photoacoustic Fourier-Transform Infrared Studies of Polyester Styrene Crosslinking." Cooper, E. A.; Urban, M. W.; Provder, T., *Abstracts of Papers of the American Chemical Society*, **1988**, 196, 68-PMSE.
- "Low-Frequency Photoacoustic Spectroscopy of Solids." Donini, J. C.; Michaelian, K. H., *Appl Spectrosc*, **1988**, 42 (2), 289-292. DOI: 10.1366/0003702884428239
- "Poly(Dimethylsiloxane) Network Formation Detected by Photoacoustic Fourier-Transform Infrared

- Spectroscopy." Gaboury, S. R.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1988**, 196, 128-POLY.
- "Fourier-Transform Infrared-Photoacoustic Spectroscopy and Quantitative Determination of Solid-State Microbial Growth." Greene, R. V.; Freer, S. N.; Gordon, S. H., *Biophys J*, **1988**, 53 (2 Part 2), A286-A286.
- "Determination of Solid-State Fungal Growth by Fourier Transform Infrared-Photoacoustic Spectroscopy." Greene, R. V.; Freer, S. N.; Gordon, S. H., *FEMS Microbiol Lett*, **1988**, 52 (1-2), 73-77. DOI: 10.1016/0378-1097(88)90303-5
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Dental Calculus." Hou, R. Z.; Wu, J. G.; Soloway, R. D.; Guo, H.; Zhang, Y. F.; Du, Y. C.; Liu, F.; Xu, G. X., *Mikrochim Acta*, **1988**, 95 (1-6), 133-136. DOI: 10.1007/BF01349737
- "Photoacoustic Detection of Absorption Spectra using Fourier-Transform Infrared Spectrometry - Possible Applications for the Pharmaceutical Industry." Huvenne, J. P.; Lacroix, B., *Spectrochim Acta, Part A*, **1988**, 44 (1), 109-113. DOI: 10.1016/0584-8539(88)80266-6
- "Applications of Infrared Photoacoustic Spectroscopy for Wood Samples." Kuo, M.-I.; McClelland, J. F.; Luo, S.; Chien, P.-L.; Walker, R. D.; Hse, C.-Y., *Wood and Fiber Science*, **1988**, 20 (1), 132-145.
- "Detection of Carbonyl Functionality of Oxidized, Vacuum-Dried Coals by Photoacoustic Infrared Fourier-Transform (PAIFT) Spectroscopy - Correlations with Added Oxygen and with Plastic Properties." Lynch, B. M.; Lancaster, L. I.; MacPhee, J. A., *Energy Fuels*, **1988**, 2 (1), 13-17. DOI: 10.1021/ef00007a003
- "Ft-IR and Ft-NMR Study of Organo-Phosphorus Surface Reactions." Nadler, M. P.; Nissan, R. A.; Hollins, R. A., *Appl Spectrosc*, **1988**, 42 (4), 634-642. DOI: 10.1366/0003702884429463
- "In-situ Measurement of Photochemical Changes of Solid Samples by Fourier-Transform Infrared Photoacoustic Spectroscopy." Teramae, N.; Tanaka, S., *Mikrochim Acta*, **1988**, 95 (1-6), 159-162. DOI: 10.1007/BF01349743
- "In Situ Fourier Transform Infrared Diffuse Reflectance and Photoacoustic Spectroscopy Characterization of Sulfur-Oxygen Species Resulting from the Reaction of SO₂ with CaCO₃." Thompson, M. M.; Palmer, R. A., *Appl Spectrosc*, **1988**, 42 (6), 945-951. DOI: 10.1366/0003702884430155
- "Thermal Stability of Silane Coupling Agents on Nextal Fibers Detected by Photoacoustic Fourier-Transform Infrared Spectroscopy." Tiefenthaler, A. M.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1988**, 196, 67-PMSE.
- "Determination of Silicon Dioxide in Silicon Carbide by Photoacoustic Infrared Fourier Transform Spectrometry." Tsuge, A.; Uwamino, Y.; Ishizuka, T., *Appl Spectrosc*, **1988**, 42 (1), 168-170. DOI: 10.1366/0003702884428707
- "Further Developments in Photoacoustic Fourier Transform Infrared Spectroscopy: Temperature Studies." Urban, M. W.; Koenig, J. L., *Anal Chem*, **1988**, 60 (21), 2408-2412. DOI: 10.1021/ac00172a018
- "FT-IR Photoacoustic Spectra of the Surface of Ru₃(CO)₁₂/Al₂O₃ System." Xu, Z.-H.; Butler, I. S.; Wu, J.-G.; Xu, G.-X., *Mikrochim Acta*, **1988**, 95 (1-6), 171-174. DOI: 10.1007/BF01349746
- "Use of Fourier Transform Infrared Spectroscopy for Quantitative Analysis: A Comparative Study of Different Detection Methods." Belton, P. S.; Saffa, A. M.; Wilson, R. H., *Analyst*, **1987**, 112 (8), 1117-1120. DOI: 10.1039/AN9871201117
- "FT-IR, Photoacoustic and Micro-Raman Spectra of the Dodecacarbonyltriruthenium(0) Complexes (Ru₃(¹³CO)₁₂) and Ru₃(CO)₁₂." Butler, I. S.; Xu, Z. H.; Darensbourg, D. J.; Pala, M., *Journal of Raman Spectroscopy*, **1987**, 18 (5), 357-363. DOI: 10.1002/jrs.1250180511
- "FT-IR Photoacoustic Spectra of Some Solid Organometallic Complexes of Chromium, Manganese, Rhenium, and Iron." Butler, I. S.; Xu, Z. H.; Werbowyj, R. S.; St.-Germain, F., *Appl Spectrosc*, **1987**, 41 (1), 149-153. DOI: 10.1366/0003702874867990
- "Characterizing Aged Textile Fibers by Fourier-Transform Infrared Photoacoustic Spectroscopy. 1. Comparison of Artificial and Natural Aging in Cotton." Cardamone, J. M.; Gould, J. M.; Gordon, S. H., *Textile Research Journal*, **1987**, 57 (4), 235-239. DOI: 10.1177/004051758705700408
- "IR-PAS Studies: Signal-to-Noise Enhancement and Depth Profile Analysis." Duerst, R. W.; Mahmoodi, P.; In *Fourier Transform Infrared Characterization of Polymers*, Ishida, H., Ed. Plenum Press: New York, 1987; pp 113-122.
- "Signal Enhancement and Elimination of Water-Vapor Interference in Fourier-Transformed Infrared Photoacoustic Spectroscopy of Powdered Plant Materials." Gordon, S. H., *Appl Spectrosc*, **1987**, 41 (2), 195-199. DOI: 10.1366/000370287774986769

- "Application of Fourier-Transform Infrared Photoacoustic Spectroscopy to the Study of Oxidation of Ultrafine Nickel Particles." Johgo, A.; Ozawa, E.; Ishida, H.; Shoda, K., *J Mater Sci Lett*, **1987**, 6 (4), 429-430. DOI: 10.1007/BF01756786
- "Fourier-Transform Infrared Photoacoustic Spectroscopic Study of Surface Texture in Brush and Polymeric Bonded Phases." Lochmuller, C. H.; Thompson, M. M.; Kersey, M. T., *Anal Chem*, **1987**, 59 (21), 2637-2638. DOI: 10.1021/ac00148a022
- "Formation of a Cyclic Imide in Aspartyl or Asparaginyl Glycyl Peptides Induced by Heating in the Dry State." Luo, S.; Liao, C.-X.; McClelland, J. F.; Graves, D. J., *Int J Pept Protein Res*, **1987**, 29 (6), 728-733. DOI: 10.1111/j.1399-3011.1987.tb02305.x
- "Characterization of Surface Functionality of Coals by Photoacoustic FTIR (PAIFT) Spectroscopy, Reflectance Infrared Microspectrometry, and X-Ray Photoelectron Spectroscopy (XPS)." Lynch, B. M.; Lancaster, L. I.; Maceachern, A. M.; Fahey, J. T.; Macphee, J. A., *Abstracts of Papers of the American Chemical Society*, **1987**, 193, 25-FUEL.
- "Carbonyl Groups from Chemically and Thermally Promoted Decomposition of Peroxides on Coal Surfaces: Detection of Specific Types using Photoacoustic Infrared Fourier Transform Spectroscopy." Lynch, B. M.; Lancaster, L.-I.; MacPhee, J. A., *Fuel*, **1987**, 66 (7), 979-983. DOI: 10.1016/0016-2361(87)90339-5
- "Fourier-Transform Infrared Photoacoustic Spectroscopy Characterization of Sulfur-Oxygen Species Resulting from the Reaction of SO₂ with CaO and CaCO₃." Martin, M. A.; Childers, J. W.; Palmer, R. A., *Appl Spectrosc*, **1987**, 41 (1), 120-126. DOI: 10.1366/0003702874868151
- "Signal Averaging of Photoacoustic FTIR Data: I. Computation of Spectra from Double-Sided Low Resolution Interferograms." Michaelian, K. H., *Infrared Physics*, **1987**, 27 (5), 287-296. DOI: 10.1016/0020-0891(87)90069-8
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Zeolites." Philippaerts, J.; Vansant, E. F.; Peeters, G.; Vanderheyden, E., *Anal Chim Acta*, **1987**, 195, 237-246. DOI: 10.1016/S0003-2670(00)85665-2
- Rosenthal, R. J.; Carl, R. T.; Beauchaine, J. P.; Fuller, M. P., Quantitative Applications of PAS Spectroscopy. In *Nicolet FT-IR Application Note AN-8718*, Nicolet: 1987.
- "Surface Studies of Dehydrofluorinated PVF₂ Films using Photoacoustic (PA) and Attenuated Total Reflectance (ATR) FT-IR Spectroscopy." Salazarrojas, E. M.; Urban, M. W., *Abstracts of Papers of the American Chemical Society*, **1987**, 193, 21-POLY.
- "Photoacoustic Fourier-Transform Infrared Spectroscopic Study of Mechanical Pulp Brightening." St. Germain, F. G. T.; Gray, D. G., *J Wood Chem Technol*, **1987**, 7 (1), 33-50. DOI: 10.1080/02773818708085251
- "Diffuse Reflectance and Photoacoustic Fourier-Transform Infrared Spectra of Silica Surfaces under Polarizable Gases." Story, W. C.; Masujima, T.; Liang, J.; Liu, G. Y.; Eyring, E. M.; Harris, J. M.; Anderson, L. L., *Appl Spectrosc*, **1987**, 41 (7), 1156-1159. DOI: 10.1366/0003702874447563
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Films." Teramae, N.; Tanaka, S.; In *Fourier Transform Infrared Characterization of Polymers*, Ishida, H., Ed. Plenum Press: New York, 1987; pp 315-340.
- "Photoacoustic Fourier-Transform Infrared-Spectroscopy - A New Method for Characterization of Coatings." Urban, M. W., *Journal of Coatings Technology*, **1987**, 59 (745), 29-34.
- "Near-Surface Analysis and Depth Profiling by FT-IR Photoacoustic Spectroscopy." Yang, C. Q.; Bresee, R. R.; Fateley, W. G., *Appl Spectrosc*, **1987**, 41 (5), 889-896. DOI: 10.1366/0003702874448319
- "Cellulose Textile Materials Studied by Using Fourier Transform Infrared Photoacoustic Spectroscopy." Yang, C. Q.; Bresee, R. R.; Fateley, W. G.; Perenich, T. A.; In *The Structures of Cellulose: Characterization of the Solid States*; 190th Meeting of the American Chemical Society, Atalla, R. H., Ed. ACS, Vol. 340; 1985, 214-232. DOI: 10.1021/bk-1987-0340.ch013
- "Fourier-Transform Infrared Photoacoustic Spectroscopy Evaluated for Near-Surface Characterization of Polymeric Materials." Yang, C. Q.; Fateley, W. G., *Anal Chim Acta*, **1987**, 194, 303-309. DOI: 10.1016/S0003-2670(00)84785-6
- "The Useful Combination of Fourier-Transform Infrared Photoacoustic Spectroscopy and X-Ray Photoelectron Spectroscopy for Fiber Surface Analysis." Yang, C. Q.; Moulder, J. F.; Fateley, W. G., *Abstracts of Papers of the American Chemical Society*, **1987**, 193, 22-POLY.
- "C-H Local Modes in Cyclobutene. II. Laser Photoacoustic Studies 10000-17000 cm⁻¹. Vibrational Structure and C-H Local Mode Dynamics." Baggott, J. E.; Law, D. W.; Lightfoot, P. D.; Mills, I. M., *J Chem Phys*,

- 1986**, 85 (10), 5414-5429. DOI: 10.1063/1.451606
- "Application of Photoacoustics to Biology: Some Specific Systems and Methods." Balasubramanian, D.; Rao, C. M., *Can J Phys*, **1986**, 64 (9), 1132-1135. DOI: 10.1139/p86-195
- "Determination of the Accessibility of N-H Groups of Kevlar 49 Fibers by Photoacoustic FTIR Spectroscopy." Chatzi, E. G.; Urban, M. W.; Ishida, H.; Koenig, J. L., *Polymer*, **1986**, 27 (12), 1850-1854. DOI: 10.1016/0032-3861(86)90171-0
- "A Comparison of Photoacoustic and Diffuse Reflectance Detection in FTIR Spectrometry." Childers, J. W.; Palmer, R. A., *Am Lab*, **1986**, 18 (3), 22-&.
- "Fourier-Transform Photoacoustic Spectroscopy: A More Complete Method for Quantitative Analysis." Choquet, M.; Rousset, G.; Bertrand, L., *Can J Phys*, **1986**, 64 (9), 1081-1085. DOI: 10.1139/p86-186
- "Near-Infrared Photoacoustic FTIR Spectroscopy of Clay Minerals and Coal." Donini, J. C.; Michaelian, K. H., *Infrared Physics*, **1986**, 26 (3), 135-140. DOI: 10.1016/0020-0891(86)90016-3
- "Fourier Deconvolution of Photoacoustic FTIR Spectra." Friesen, W. I.; Michaelian, K. H., *Infrared Physics*, **1986**, 26 (4), 235-242. DOI: 10.1016/0020-0891(86)90075-8
- "Fourier Transform IR Spectrometry A Tool for Modern Agricultural Research." Griffiths, P. R.; Pariente, G. L.; Research Instrumentation for the 21st Century; Symposium, Beecher, G. R., Ed. Kluwer Academic Publishers, Vol. 11; 1986, 223-246.
- "Role of Conformational Changes in the Elution of Proteins from Reversed-Phase HPLC Columns." Katzenstein, G. E.; Vrona, S. A.; Wechsler, R. J.; Steadman, B. L.; Lewis, R. V.; Middaugh, C. R., *Proceedings of the National Academy of Sciences of the United States of America*, **1986**, 83 (12), 4268-4272. DOI: 10.1073/pnas.83.12.4268
- "Detection by Photoacoustic Infrared Fourier-Transform Spectroscopy of Surface Peroxide Species in Chemically and Thermally Modified Coals." Lynch, B. M.; Lancaster, L. I.; Fahey, J. T., *Abstracts of Papers of the American Chemical Society*, **1986**, 191, 26-FUEL.
- "Carbonate Associated with Hydroxide Sol-Gel Processing of Yttria: An Infrared Spectroscopic Study." Seaverson, L. M.; Luo, S.-Q.; Chien, P.-L.; McClelland, J. F., *J Am Ceram Soc*, **1986**, 69 (5), 423-429. DOI: 10.1111/j.1151-2916.1986.tb04773.x
- "Phase Transitions and Surface Characterization of Poly (Butylene Terephthalate) Fibers by Photoacoustic and Diffuse Reflectance Fourier Transform Infrared Spectroscopy." Urban, M. W.; Chatzi, E. G.; Perry, B. C.; Koenig, J. L., *Appl Spectrosc*, **1986**, 40 (8), 1103-1107. DOI: 10.1366/0003702864507530
- "Depth-Profiling Studies of Double-Layer PVF₂-on-PET Films by Fourier Transform Infrared Photoacoustic Spectroscopy." Urban, M. W.; Koenig, J. L., *Appl Spectrosc*, **1986**, 40 (7), 994-998. DOI: 10.1366/0003702864507882
- "Determination of the Orientation of Adsorbed Pyridine and γ -MPS on Alumina Surface by Photoacoustic FT-IR Spectroscopy." Urban, M. W.; Koenig, J. L., *Appl Spectrosc*, **1986**, 40 (6), 851-856. DOI: 10.1366/0003702864508412
- "Determination of the Orientation of Silanes on Silica Surfaces by Fourier Transform Infrared Photoacoustic Spectroscopy." Urban, M. W.; Koenig, J. L., *Appl Spectrosc*, **1986**, 40 (4), 513-519. DOI: 10.1366/0003702864508791
- "FT-IR Photoacoustic Spectra of Gaseous Group-VIB Metal Chalcocarbonyl Complexes." Xu, Z. H.; Butler, I. S.; St.-Germain, F. G. T., *Appl Spectrosc*, **1986**, 40 (7), 1004-1009. DOI: 10.1366/0003702864508142
- "The Effect of Particle Size on Fourier-Transform Infrared Photoacoustic Spectra." Yang, C. Q.; Fateley, W. G., *J Mol Struct*, **1986**, 146, 25-39. DOI: 10.1016/0022-2860(86)80279-4
- "The Effect of Particle Size on Peak Intensities of FT-IR Photoacoustic Spectra." Yang, C. Q.; Fateley, W. G., *J Mol Struct*, **1986**, 141, 279-284. DOI: 10.1016/0022-2860(86)80334-9
- "Depth Profile Study of Large-Sized Coal Samples by Fourier-Transform Infrared Photoacoustic Spectroscopy." Zerlia, T., *Appl Spectrosc*, **1986**, 40 (2), 214-217. DOI: 10.1366/0003702864509475
- "FT-IR/PA Study of Quinoline Adsorbed on Calcined and Sulfided Mo/ γ -Al₂O₃." Bandyopadhyay, S.; Massoth, F. E.; Pon, S.; Eyring, E. M., *J Phys Chem*, **1985**, 89 (12), 2560-2564. DOI: 10.1021/j100258a027
- "Characterization of Structural Changes in Aged Textile Fibers Using Fourier-Transform Infrared Photoacoustic Spectroscopy." Cardamone, J. M.; Gould, J. M., *Abstracts of Papers of the American Chemical Society*, **1985**, 189 (APR-), 77-CELL.
- "Comparison of Fourier-Transform Infrared-Photoacoustic Spectroscopy (FTIR-PAS) and Conventional Methods for Analysis of Coal Oxidation." Chien, P. L.; Markuszewski, R.; McClelland, J. F., *Abstracts*

- of Papers of the American Chemical Society*, **1985**, 189 (APR), 2-FUEL.
- "Quantitative Fourier-Transform Infrared Photoacoustic Spectroscopy." Choquet, M.; Rousset, G.; Bertrand, L. G., *J Opt Soc Am A*, **1985**, 2 (13), P7-P7.
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Condensed-Phase Samples." Graham, J. A.; Grim, W. M., III; Fateley, W. G.; In *Fourier Transform Infrared Spectroscopy: Applications to Chemical Systems*, Ferraro, J. R.; Basile, L. J., Eds.; Academic Press: Orlando, FL, 1985; Vol. 4, pp 345-392.
- "The Influence of Experimental Conditions in Quantitative Analysis of Powdered Samples by Fourier Transform Infrared Photoacoustic Spectroscopy." Highfield, J. G.; Moffat, J. B., *Appl Spectrosc*, **1985**, 39 (3), 550-552. DOI: 10.1366/0003702854248683
- "Surface Characterization of Chemically Modified (Trimethylsilyl) Silicas by ²⁹Si Solid-State NMR, XPS, and IR Photoacoustic Spectroscopy." Linton, R. W.; Miller, M. L.; Maciel, G. E.; Hawkins, B. L., *Surf Interface Anal*, **1985**, 7 (4), 196-203. DOI: 10.1002/sia.740070407
- "High-Temperature Fourier-Transform Photoacoustic Spectroscopy - Sample Emission Effects." McGovern, S.; Royce, B. S. H.; Benziger, J., *Appl Opt*, **1985**, 24 (10), 1512-1514. DOI: 10.1364/AO.24.001512
- "FT-IR/Photoacoustic and ¹³C-CPMAS Investigation of Mo₂(C₃H₅)₄ Supported on Silica and Alumina." McKenna, W. P.; Eyring, E. M., *J Mol Catal*, **1985**, 29 (3), 363-369. DOI: 10.1016/0304-5102(85)80042-0
- "FT-IR Photoacoustic Spectroscopy Investigation of Oxidized Wool." McKenna, W. P.; Gale, D. J.; Rivett, D. E.; Eyring, E. M., *Spectrosc Lett*, **1985**, 18 (2), 115-122. DOI: 10.1080/00387018508062216
- "FTIR Photoacoustic Investigation of the Surface Species Resulting from the Photochemical Reaction of Re₂(CO)₁₀ with Silica and Alumina." McKenna, W. P.; Higgins, B. E.; Eyring, E. M., *J Mol Catal*, **1985**, 31 (2), 199-206. DOI: 10.1016/0304-5102(85)85061-6
- "Structural Studies of Phosvitin in Solution and in the Solid State." Renugopalakrishnan, V.; Horowitz, P. M.; Glimcher, M. J., *J Biol Chem*, **1985**, 260 (21), 11406-11413.
- "Investigation of Water and Hydroxyl Groups Associated with Coal Fly Ash by Thermal Desorption and Fourier Transform Infrared Photoacoustic Spectroscopies." Seaverson, L. M.; McClelland, J. F.; Burnet, G.; Anderegg, J. W.; Iles, M. K., *Appl Spectrosc*, **1985**, 39 (1), 38-45. DOI: 10.1366/0003702854249330
- "Effect of Heat from Rear Surface of a Film Sample on Spectral Features in Fourier Transform Infrared Photoacoustic Spectroscopy." Teramae, N.; Tanaka, S., *Anal Chem*, **1985**, 57 (1), 95-99. DOI: 10.1021/ac00279a027
- "Subsurface Layer Detection by Fourier-Transform Infrared Photoacoustic Spectroscopy." Teramae, N.; Tanaka, S., *Appl Spectrosc*, **1985**, 39 (5), 797-799. DOI: 10.1366/0003702854249925
- "Enhancement of the Surface Modes in Photoacoustic FT-IR Spectroscopy Using a Highly Polarizable Inert Gas." Urban, M. W.; Koenig, J. L., *Appl Spectrosc*, **1985**, 39 (6), 1051-1056. DOI: 10.1366/0003702854249673
- "Analysis of Thin-Layer Chromatographic Adsorbates by Fourier Transform Infrared Photoacoustic Spectroscopy." White, R. L., *Anal Chem*, **1985**, 57 (9), 1819-1822. DOI: 10.1021/ac00286a008
- "The Depth Profiling of FT-IR Photoacoustic Spectroscopy and Its Application in Polymer Material Studies." Yang, C. Q.; Ellis, T. J.; Bresee, R. R.; Fateley, W. G., *Abstracts of Papers of the American Chemical Society*, **1985**, 190 (SEP), 42-PME.
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Raw Coal." Zerlia, T., *Fuel*, **1985**, 64 (9), 1310-1312. DOI: 10.1016/0016-2361(85)90194-2
- "The Analysis of Textile Mixtures Using Fourier-Transform Infrared Photoacoustic Spectroscopy." Davidson, R. S.; Fraser, G. V., *J Soc Dyers Colourists*, **1984**, 100 (5-6), 167-170.
- "Effect of Cell Resonance on Depth Profiling in Photoacoustic FTIR Spectra." Donini, J. C.; Michaelian, K. H., *Infrared Physics*, **1984**, 24 (2-3), 157-163. DOI: 10.1016/0020-0891(84)90064-2
- "Comparison of Attenuated Total Reflectance and Photoacoustic Sampling for Surface Analysis of Polymer Mixtures by Fourier Transform Infrared Spectroscopy." Gardella, J. A., Jr.; Grobe, G. L., III; Hopson, W. L.; Eyring, E. M., *Anal Chem*, **1984**, 56 (7), 1169-1177. DOI: 10.1021/ac00271a026
- "Characterization of Coal Using Fourier Transform Infrared Photoacoustic Spectroscopy." Gerson, D. J.; McClelland, J. F.; Veysey, S.; Markuszewski, R., *Appl Spectrosc*, **1984**, 38 (6), 902-904. DOI: 10.1366/0003702844554684
- "Analytical Applications of Photoacoustic Detection to FTIR Spectroscopy." Gerson, D. J.; Wong, J. S.; Casper, J. M., *Am Lab*, **1984**, 16 (11), 63-71.

- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Lignin in the Solid State." Gould, J. M.; Greene, R. V.; Gordon, S. H., *Abstracts of Papers of the American Chemical Society*, **1984**, 188 (AUG), 109-CELL.
- "The Detection Capabilities of Fourier-Transform External Reflection and Photoacoustic Spectroscopy for Electrode-Supported Films." Porter, M. D.; Karweik, D. H.; Kuwana, T.; Theis, W. B.; Norris, G. B.; Tiernan, T. O., *Appl Spectrosc*, **1984**, 38 (1), 11-16. DOI: 10.1366/0003702844554396
- "Fourier Transform Infrared Photoacoustic Spectroscopy: A Novel Conformational Probe. Demonstration of α -Helical Conformation of Poly(γ -benzyl glutamate)." Renugopalakrishnan, V.; Bhatnagar, R. S., *J Am Chem Soc*, **1984**, 106 (7), 2217-2219. DOI: 10.1021/ja00319a056
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Films." Tanaka, S.; Teramae, N., *Abstracts of Papers of the American Chemical Society*, **1984**, 188 (AUG), 166-POLY.
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Film-Like Samples." Teramae, N.; Tanaka, S., *Bunseki Kagaku*, **1984**, 33 (9), E397-E400.
- "Photoacoustic and Reflection FT-IR Spectrometry - Photometric Approximations for Practical Quantitative Analysis." Vidrine, D. W., *Abstracts of Papers of the American Chemical Society*, **1984**, 188 (AUG), 70-POLY.
- "Infrared Photoacoustic Spectroscopy of Conducting Polymers III. Polyparaphenylene and its Derivatives." Yaniger, S. I.; Rose, D. J.; McKenna, W. P.; Eyring, E. M., *Appl Spectrosc*, **1984**, 38 (1), 7-11. DOI: 10.1366/0003702844554486
- "Photoacoustic Infrared Spectroscopy of Doped and Undoped Poly(*p*-phenylene)." Yaniger, S. I.; Rose, D. J.; McKenna, W. P.; Eyring, E. M., *Macromolecules*, **1984**, 17 (12), 2579-2583. DOI: 10.1021/ma00142a020
- "Crystallization Studies of Polymer Blends by Fourier-Transform IR Photoacoustic Spectroscopy." Balizer, E.; Talaat, H., *Journal de Physique*, **1983**, 44 (C-6), 131-136. DOI: 10.1051/jphyscol:1983620
- "Contrast Improvement in Photoacoustic and Diffuse Light Fourier-Transform Spectroscopy." Fournier, D.; Boccara, A. C.; Badoz, J., *Journal de Physique*, **1983**, 44 (C-6), 145-150. DOI: 10.1051/jphyscol:1983622
- "Determination of Phencyclidine and Phenobarbital in Complex Mixtures by Fourier-Transformed Infrared Photo-Acoustic Spectroscopy." Rockley, M. G.; Woodard, M.; Richardson, H. H.; Davis, D. M.; Purdie, N.; Bowen, J. M., *Anal Chem*, **1983**, 55 (1), 32-34. DOI: 10.1021/ac00252a011
- "Photoacoustic Fourier Transform Infrared Spectroscopy of Solids and Liquids." Vidrine, D. W.; In *Fourier Transform Infrared Spectroscopy*, Ferraro, J. R.; Basile, L. J., Eds.; Academic Press: 1982; Vol. 3, pp 125-148.
- "High-Luminosity Visible and Near-IR Fourier-Transform Photoacoustic Spectrometer." Débarre, D.; Boccara, A. C.; Fournier, D., *Appl Opt*, **1981**, 20 (24), 4281-4286. DOI: 10.1364/AO.20.004281
- "Organometallic Photochemistry at the Solid-Gas Interface - Photochemistry of Surface-Confined Cobalt Tetracarbonyl Monitored by Fourier-Transform Infrared Photoacoustic Spectroscopy." Kinney, J. B.; Staley, R. H.; Reichel, C. L.; Wrighton, M. S., *J Am Chem Soc*, **1981**, 103 (14), 4273-4275. DOI: 10.1021/ja00404a061
- "Some Applications of Fourier Transform Infrared Photoacoustic Spectroscopy." Krishnan, K., *Appl Spectrosc*, **1981**, 35 (6), 549-557. DOI: 10.1366/0003702814732076
- "Condensed Matter Photoacoustic Spectroscopy and Detection Using GAS Phase Signal Generation and Detection." McClelland, J. F., *IEEE Trans Sonics Ultrason*, **1981**, 28 (5), 362-362.
- "Quantitative Analysis of a Binary Mixture by Fourier-Transform Infrared Photoacoustic Spectroscopy." Rockley, M. G.; Davis, D. M.; Richardson, H. H., *Appl Spectrosc*, **1981**, 35 (2), 185-186. DOI: 10.1366/0003702814731635
- "Fourier Transformed Infrared Photoacoustic Spectroscopy, The Technique and Its Application." Rockley, M. G.; Richardson, H. H.; Davis, D. M., *IEEE Trans Sonics Ultrason*, **1981**, 28 (5), 365-365.
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Solids." Royce, B. S. H.; Teng, Y. C.; Enns, J., *IEEE Trans Sonics Ultrason*, **1981**, 28 (5), 365-365.
- "Fourier Transform Infrared Photoacoustic Spectroscopy of Solid Samples." Teramae, N.; Hiroguchi, M.; Tanaka, S., *Chem Lett*, **1981**, 10 (8), 1091-1092. DOI: 10.1246/cl.1981.1091
- "Photoacoustic Fourier-Transform Infrared Spectroscopy and its Application to Polymer Analysis." Vidrine, D. W., *Abstracts of Papers of the American Chemical Society*, **1981**, 181 (MAR), 46-MACR.
- "Studies of Supported Transition-Metal Catalysts Using Fourier-Transform Infrared Photoacoustic Spectroscopy." Kinney, J. B.; Staley, R. H., *Abstracts of Papers of the American Chemical Society*,

1980, 180 (AUG), 67-ANYL.

- "Fourier-Transform Photoacoustic Visible Spectroscopy of Solids and Liquids." Lloyd, L. B.; Burnham, R. K.; Chandler, W. L.; Eyring, E. M.; Farrow, M. M., *Anal Chem*, **1980**, 52 (11), 1595-1598. DOI: 10.1021/ac50061a014
- "Fourier Transform Photoacoustic Spectrometer." Lloyd, L. B.; Riseman, S. M.; Burnham, R. K.; Eyring, E. M.; Farrow, M. M., *Rev Sci Instrum*, **1980**, 51 (11), 1488-1492. DOI: 10.1063/1.1136109
- "Fourier-Transformed Infrared Photoacoustic Spectroscopy of Solids." Rockley, M. G., *Appl Spectrosc*, **1980**, 34 (4), 405-406. DOI: 10.1366/0003702804731465
- "Reasons for the Distortion of the Fourier-Transformed Infrared Photoacoustic Spectroscopy of Ammonium-Sulfate Powder." Rockley, M. G., *Chem Phys Lett*, **1980**, 75 (2), 370-372. DOI: 10.1016/0009-2614(80)80533-1
- "Fourier-Transformed Infrared Photoacoustic Spectroscopy of Biological Materials." Rockley, M. G.; Davis, D. M.; Richardson, H. H., *Science*, **1980**, 210 (4472), 918-920. DOI: 10.1126/science.7434007
- "Fourier-Transform Infrared Photoacoustic Spectroscopy of Solids." Royce, B. S. H.; Enns, J.; Teng, Y. C., *Bulletin of the American Physical Society*, **1980**, 25 (3), 408-408.
- "Photoacoustic FT-IR of Solid Samples." Vidrine, D. W., *Abstracts of Papers of the American Chemical Society*, **1980**, 180 (AUG), 66-ANYL.
- "Photoacoustic Fourier Transform Infrared Spectroscopy of Solid Samples." Vidrine, D. W., *Appl Spectrosc*, **1980**, 34 (3), 314-319. DOI: 10.1366/0003702804730303
- "Fourier-Transformed Infrared Photoacoustic Spectroscopy of Polystyrene Film." Rockley, M. G., *Chem Phys Lett*, **1979**, 68 (2-3), 455-456. DOI: 10.1016/0009-2614(79)87236-X
- "Fourier-Transform Photoacoustic Spectroscopy." Farrow, M. M.; Burnham, R. K.; Eyring, E. M., *Appl Phys Lett*, **1978**, 33 (8), 735-737. DOI: 10.1063/1.90521