

PUBLICATIONS

Published Research:

1. J. Cai, J. T. Smith, and Z. El Rassi, "Determination of the Ionization Constants of Weak Electrolytes by Capillary Zone Electrophoresis," *J. High Resol. Chromatogr.*, 15 (1992) 30-33.
2. E. Levy, F. J. Gough, K. D. Berlin, P. W. Geno, and J. T. Smith, "Inhibition of *Septoria tritici* and other phytopathogenic fungi and bacteria by *Pseudomonas fluorescens* and its antibiotics," *Plant Pathology*, 41(1992) 335-341.
3. J. T. Smith and Z. El Rassi, "Capillary Zone Electrophoresis of Biological Substances with Surface-Modified Fused Silica Capillaries with Switchable Electroosmotic Flow," *J. High Resol. Chromatogr.*, 15 (1992) 573-578.
4. J. T. Smith and Z. El Rassi, "Capillary zone electrophoresis of biological substances with fused-silica capillaries having zero or constant electroosmotic flow," *Electrophoresis*, 14 (1993) 396-406.
5. W. Nashabeh, J. T. Smith, and Z. El Rassi, "Studies in Capillary Zone Electrophoresis with a Post-Column Multiple Capillary Device for Fraction Collection and Stepwise Increase in the Electroosmotic Flow during Analysis," *Electrophoresis*, 14 (1993) 407-416.
6. J. T. Smith, A. Mackie, S. Van Waggoner, G. Gandy, M. Washburn, R. Self, A. Horn, J.L. Kiel, and J.R. Wright, "Chemiluminescent Dosimetry of Microwave Heating and Acoustic Irradiations Based on Luminol and Metal Oxide Catalyst," *Microchemical J.*, 47 (1993) 197-205.
7. J. T. Smith, W. Nashabeh, and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography *In Situ* Charged Micelles. 1. Evaluation of *N*-D-gluco-*N*-methylalkanamide Surfactants as Anionic Borate Complexes," *Analytical Chemistry*, 66 (1994) 1119-1133.
8. J. T. Smith and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography *In Situ* Charged Micelles. 2. Evaluation and Comparison of Octylmaltoside and Octanoylsucrose Surfactants as Anionic Borate Complexes in the Separation of Herbicides," *J. Microcol. Sep.*, 6 (1994) 127-138.
9. J. T. Smith and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography *In Situ* Charged Micelles. 3. Evaluation of Alkylglucoside Surfactants as Anionic Butylboronate Complexes," *Electrophoresis*, 15 (1994) 1248-1259.
10. J. T. Smith and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography *In Situ* Charged Micelles. 4. Influence of the Nature of the Alkylglycoside Surfactant," *J. Chromatogr.*, 685 (1994) 131-143.
11. J. T. Smith and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography *In Situ* Charged Micelles. 5. Evaluation of Background Fluorophores for Indirect Fluorescence Detection," *J. Cap. Elec.*, 2 (1994) 136-143.
12. J. T. Smith and D. V. Vinjamoori, "Rapid Determination of Logarithmic Partition Coefficients Between Octanol and Water Using Micellar Electrokinetic Capillary Chromatography," *J. Chromatogr. B*, 669 (1995) 59-66.

13. Y. Merchref, J. T. Smith and Z. El Rassi, "Micellar Electrokinetic Capillary Chromatography with *In Situ* Charged Micelles. VII Expanding the Utility of Alkylglycoside-borate Micelles to Acidic and Neutral pH," *J. Liq. Chromatogr.*, 18 (1995) 3769-3786 .
14. J. T. Smith, "Developments in Amino Acids Analysis using Capillary Electrophoresis," *Electrophoresis*, 17 (1997) 2377-2392.
15. L. Maddox, M. Reeves, K. Wood, K. Roberts, J. Studer, J. Wetzel, J. T. Smith, K. Whittington, J. L. Alls, J. E. Parker, E. Holwitt, J. Kiel, and J. R. Wright, "Acoustic Wave Dosimetry Based on Diazotized luminol Solutions", *Microchemical J.*, 58 (1998) 209-217.
16. D. J. Allen, W. E. Wall, K. D. Denson, and J. T. Smith, "Adjusting Selectivity in Micellar Electrokinetic Capillary Chromatography with 1,2-Hexanediol", *Electrophoresis*, 20 (1999) 100-110.
17. W. E. Wall, K. D. Denson, D. J. Allen, G. I. Love, and J. T. Smith, "Explorations of Alkyl Polyols a Class I Organic Modifiers to Adjust Selectivity in Micellar Electrokinetic Capillary Chromatography", *Electrophoresis*, 20 (1999) 2390-2399.
18. J. T. Smith, "Recent Advancements in Amino Acid Analysis using Capillary Electrophoresis", *Electrophoresis*, 20 (1999) 3078-3083.
19. D. J. Allen, J. C. Gary, N. L. Piava, and J. T. Smith, "An Enantiomer Assay for Flavonoids Medicarpin and Vestitone using Capillary Electrophoresis", *Electrophoresis*, 21 (2000) 2051-2057.
20. B. R. Baggett, J. D. Cooper, E. T. Hogan, J. Carper, N. L. Paiva, and J. T. Smith, "Profiling Isoflavonoids Found in Legume Root Extracts using Capillary Electrophoresis", *Electrophoresis*, 23 (2002) 1642-1651.
21. V. M. Russo, J. K. Collins, P. Perkins-Veazie, and J. T. Smith, "Carbohydrate Distribution in Stalks and Ears of Sweet Maize with Different Endosperm Genotypes", *Cereal Research Communications*, 32 (2004) 91-98.
22. C. D. Broeckling, D. V. Huhman, M. Farag, J. T. Smith, G. D. May, P. Mendes, R. A. Dixon, and L. W. Sumner, "Metabolic profiling of *Medicago truncatula* cell cultures reveals effects of biotic and abiotic elicitors on metabolism", *J. Experimental Botany*, 56 (2005) 323-336.

Books:

1. Z. El Rassi and J. T. Smith, "Other Direct and Indirect Detection Methods of Carbohydrates in HPLC and HPCE," *Carbohydrate Analysis: High Performance Liquid Chromatography and Capillary Electrophoresis*, Z. El Rassi (Editor), Journal of Chromatography Library-volume 58, Elsevier, Amsterdam, copyright 1995.
2. L. W. Sumner, A. L. Duran, D. H. Huhman, and J. T. Smith, "Metabolomics: A Developing and Integral Component on Functional Genomic Studies of *Medicago truncatula*", in *Recent Advances in Phytochemistry*, - Phytochemistry in the Genomics and Post-genomics Era, Vol 36, John T. Romeo (Editor), Elsevier.