

SFC Papers Published in 2012

1. "Coupling SFC with ELSD: A Study of the Relevant Parameters Ruling Response", E. Lesellier, T. Bizet, A. Valarche, C. West, M. Dreux, LCGC North America, 30 (2012) 240.
2. "Column Selection for Achiral Purification Using SFC-MS", P. Korsgren, A.L. Weinmann, Amer. Pharm. Rev., May/June, (2012) 16.
3. "Hydrogen Bonding of Ethanol in Supercritical Mixtures with CO₂ by ¹H NMR Spectroscopy and Molecular Simulation", S. Reiser, N. McCann, M. Horsch, H. Hasse, J. Supercrit. Fluids, 68 (2012) 94.
4. "Screening Strategies for Achiral SFC Employing HILIC-Like Parameters", M. Ashraf-Khorassani, L.T. Taylor, E. Seest, J. Chromatogr. A, 1229 (2012) 237.
5. "SFC Resolution of Water Soluble Isomeric Carboxyl/Amine Terminated Peptides Facilitated via Mobile Phase Water and Ion Pair Formation", M. A. Patel, F. Riley, M. Ashraf-Khorassani, L.T. Taylor, J. Chromatogr. A, 1233 (2012) 85.
6. "Experimental Considerations for Achiral Packed Column SFC", L.T. Taylor, The Column, LC/GC, Jan. 16, 2012, p.2.
7. "SFC-MS for the Rapid Analysis of Glycolytic Pathway Components (from Cell Lysates)", W. Farrell, C. Aurigemma, The Column LC/GC, Jan. 16, 2012, p. 17.
8. "Packed Column SFC of Hydrophilic Analytes via Water-Rich Modifiers", L.T. Taylor, J. Chromatogr. A, 1250 (2012) 196.
9. "High-Throughput and Sensitive Analysis of 3-Monochloropropane-1,2-Diol Fatty Acid Esters in Edible Oils by SFC/MS", K. Hori, A. Matsubara, T. Uchikata, K. Tsumura, E. Fukusaki, T. Bamba, J. Chromatogr. A, 1250 (2012) 99.
10. "Pressure, Temperature, and Density Drops Along SFC Columns. I. Experimental Results for Neat Carbon Dioxide and Columns Packed with 3- and 5-micron Particles", D.P. Poe, D. Veit, M. Ranger, K. Kaczmariski, A. Tarafder, G. Guiochon, J. Chromatogr. A, 1250 (2012) 105.
11. "Pressure, Temperature, and Density Drops Along SFC Columns. II. Theoretical Simulation for Neat Carbon Dioxide and Columns Packed with 3-micron Particles", K. Kaczmariski, D.P. Poe, A. Tarafder, G. Guiochon, J. Chromatogr. A, 1250 (2012) 115.
12. "Determination of Diffusion Coefficients for Supercritical Fluids", I. Medina, J. Chromatogr. A, 1250 (2012) 124.

13. "Applications of the Chromatographic Impulse Response Method in SFC", C.Y. Kong, T. Funazukuri, S. Kagel, G. Wang, F. Lu, T. Sako, *J. Chromatog. A*, 1250 (2012) 141.
14. "Stationary Phases for Packed-Column SFC", C. Poole, *J. Chromatogr. A*, 1250 (2012) 157.
15. "Development and Validation of Packed Column SFC for Quantification of Chlorzoxazone, Paracetamol, and Aceclofenac, in Their Individual and Combined Dosage Forms", P.P. Desai, N. R. Patel, O.D. Sherikar, P.J. Mehta, *J. Chromatogr. Sci.*, (2012) p.1.
16. "Evaluation of Mobile Phase Gradient SFC for Impurity Profiling of Pharmaceutical Compounds", A.J.Alexander, T.T.Hooker, F.P. Tomasella, *J. Pharm. Biomed. Anal.* (2012).
17. "Screening Strategy for Chiral and Achiral Separations in SFC", D.C.Speybrouck, D. Corens, J-M. Argoulion, *Curr. Top.Med. Chem.*, 12 (2012) 1250.
18. "Recent Advances in Pharmaceutical Separations with SFC Using Chiral Stationary Phases", R-Q. Wang, T-T. Ong, S-C Ng, W. Tang, *Trends. Anal. Chem.*, 37 (2012) 83.
19. "Use of Amine Additive in the Sample Diluent in a SFC Purification", B-S. Natascha, V. Hoesch, N. DeGrace, LCGC North America, (2012) p. 20.
20. "Automated Approach for the Rapid Identification of Purification Conditions Using a Unified, Walk-up HPLC/SFC/MS Screening System", C.M. Aurigemma, W.P. Farrell, J. Simpkins, M. Bayliss, M. Alimuddin, W. Wang, *J. Chromatogr. A*, 1229 (2012) 260.
21. "Ammonia is a Preferred Additive in Chiral and Achiral Applications of SFC", M. Ventura, B. Murphy, W. Goetzinger, *J. Chromatogr. A*, 1220 (2012) 147.
22. "Separations of Petroleum Products Involving SFC", T. Didier, *J. Chromatogr. A*, 1225 (2012) 177.
23. "Comprehensive Two-Dimensional Chromatography with Coupling of Reversed Phase HPLC and SFC", P.G.Stevenson, A. Tarafder, G. Guiochon, *J. Chromatogr. A*, 1220 (2012) 175.
24. "Chemically Bonded Cationic β -cyclodextrin Derivatives and Their Applications in SFC", R-Q. Wang, T-T. Ng, S-C. Ng, *J. Chromatogr. A*, 1224 (2012) 97.
25. "Efficiency in SFC with Different Superficially Porous and Fully Porous Particles ODS Bonded Phases", E. Lesellier, *J. Chromatogr. A*, 1228 (2012) 89.
26. "Chemometric Methods to Classify Stationary Phases for Achiral Packed Column SFC", C. West, E. Lesellier, *J. Chemometrics.*, 26 (2012) 52.

27. "Solute Partitioning Between 1-n-Butyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid and Supercritical Carbon Dioxide", *J. Chem Eng. Data*, 57 (2012) 1064.
28. "Combined Use of Isopropylamine and trifluoroacetic Acid in Methanol-Containing Mobile Phases for Chiral SFC", K. De Klerck, D. Mangelings, D. Clicq, F. DeBoever, Y. Vander Heyden, *J. Chromatogr. A*, 1234 (2012) 72.
29. "Enantiomeric Separations of Chiral Polychlorinated Biphenyls on Three Polysaccharide-Type Chiral Stationary Phases by SFC", A. Zhang, W. Gao, B. Ma, L. Jin, C. Lin, *Anal. Bioanal Chem.*, 403 (2012) 2665.
30. "High Throughput Phospholipid Profiling System Based on SFE/SFC/MS for Dried Plasma Spot Analysis", T. Ulchikata, A. Matsubara, E. Fukusaki, T. Bamba, *J. Chromatogr. A*, 1250 (2012) 69.
31. "Chromatographic Separation of Bioactive Oxysterols by GC, HPLC, and SFC", *Curr. Top. Med. Chem.*, 12 (2012) 1264.
32. "Potential of Chiral Anion-Exchangers Operated in Various Subcritical Fluid Chromatography Modes for Resolution of Chiral Acids", R. Pell, W. Lindner, *J. Chromatogr. A*, 1245 (2012) 175.
33. "SFC for the Enantioseparation of Pharmaceuticals", K. De Klerck, D. Mangelings, Y. Vander Heyden, *J. Pharm. Biomed. Anal.*, 69 (2012) 77.
34. "Highly Sensitive and Rapid Profiling Method for Carotenoids and Their Epoxidized Products Using SFC Coupled with Electrospray Ionization-Triple Quadrupole MS", A. Matsubara, T. Uchikata, M. Shinohara, S. Nishiumi, M. Yoshida, E. Fukusaki, T. Bamba, *J. Biosci. Bioeng.*, 113 (2012) 782.
35. "A Critical Review on the Use of Modern Sophisticated Hyphenated Tools in the Characterization of Impurities and Degradation Products", S. Singh, T. Handa, M. Narayanam, A. Sahu, M. Junwai, R.P. Shah, *J. Pharm. Biomed. Anal.*, 69 (2012) 148.
36. "SFC Hyphenated to Bidimensional GC in Comprehensive and Heart-Cutting Mode", T. Dutriez, D. Thiebaut, M. Courtiade, H. Dulot, F. Bertoncini, M-C. Hennion, *J. Chromatogr. A*, 1255 (2012) 153.
37. "Innovative Green SFC Development for the Determination of Polar Compounds", A. Dispas, P. Lebrun, P. Sassiati, E. Ziemons, D. Thiebaut, J. Vial, P. Hubert, *J. Chromatogr. A*, 1256 (2012) 253.
38. "New Insights in Pharmaceutical Analysis", D. Guillarme, J. Boccard, J-L. Veuthey, S. Rudaz, *Chimia*, 66 (2012) 330.

39. "Metabolic Profiling of Lipids by SFC/MS", T. Bamba, J.W. Lee, A. Matsubara, E. Fukusaki, *J. Chromatogr. A*, 1250 (2012) 212.
40. "Development of Oxidized Phosphatidylcholine Isomer Profiling Method Using SFC/Tandem MS", T. Uchikata, A. Matsubara, S. Nishiumi, M. Yoshida, E. Fukusaki, T. Bamba, *J. Chromatogr. A*, 1250 (2012) 205.
41. "Characterization and Use of HILIC Type Stationary Phases in SFC", C. West, S. Khater, E. Lesellier, *J. Chromatogr. A*, 1250 (2012) 182.
42. "Placing SFC One Step Ahead in RP-HPLC in the Achiral Purification Arena: A HILIC Cross-Linked Diol Chemistry as a New Generic Stationary Phase", M.L.de la Puente, P. Soto-Yarritu, A. C. Lopez, *J. Chromatogr. A*, 1250 (2012)1782.
43. "Effects of Selected Parameters on the Response of the ELSD in SFC", E. Lesellier, A. Valarche, C. West, M. Dreux, *J. Chromatogr. A*, 1250 (2012) 220.
44. "Evaluation of Flash SFC and Alternate Sample Loading Techniques for Pharmaceutical Medicinal Chemistry Purification", L. Miller, M. Mahoney, *J. Chromatogr. A*, 1250 (2012) 264.
45. "High Accuracy Analysis System for the Redox Status of Coenzyme Q₁₀ by Online SFE/SFC/MS", T. Uchikata, A. Matsubara, E. Fukusaki, T. Bamba, *J. Chromatogr. A*, 1250 (2012) 76.
46. "Evaluation of Injection Conditions for Preparative SFC", L. Miller, I. Sebastian, *J. Chromatogr. A*, 1250 (2012) 256.
47. "Preparative Enantioseparation Using SFC", L. Miller, *J. Chromatogr. A*, 1250 (2012) 227.
48. "Design of Preparative SFC", A. Rajendran, *J. Chromatogr. A*, 1250 (2012) 227.
49. "Feasibility of Neat Carbon Dioxide Packed Column Comprehensive Two Dimensional SFC", P. Guibal, D. Thiebaut, P. Sassiati, J. Vial, *J. Chromatogr. A*, 1255 (2012) 252.
50. "Chiral Resolution, Absolute Configuration Assignment and Biological Activity of Racemic Diarylpyrimidine CH(OH)-DAPY as Potent Non-nucleoside HIV-1 Reversed Transcriptase Inhibitors", S-X. Gu, Z-M. Li, X-D. Ma, S-Q. Yang, Q-Q. He, F-E. Chen, E. DeClercq, J. Balzarini, C. Pannecouque, *Euro. J. Med. Chemistry*, 53 (2012) 229.

51. "Enantiomeric Separations of Chiral Polychlorinated Biphenyls on Three Polysaccharide-Type Chiral Stationary Phases by SFC", A. Zhang, W. Gao, B. Ma, L. Jin, C. Lin, *Anal. Bioanal. Chem.*, 403 (2012) 2665.
52. "Resolution of Racemic 3-Hydroxy-4,5-dimethyl-2(5H)-furanone (sotolon) by Packed Column SFC", J. Xie, H. Han, L. Sun, H. Zeng, B. Sun, *Flav. Frag. J.*, 27 (2012) 244.
53. "Development of the Certified Reference Material of Poly(ethylene glycol) Nonylphenyl Ether by SFC", K. Takahashi, S. Matsuyama, H. Kato, S. Kinugasa, *Int. J. Polym. Anal. Characterist.*, 17 (2012) 208.
54. "Chemically Bonded Cationic β -Cyclodextrin Derivatives as Chiral Stationary Phases for Enantioseparation Applications", R-Q. Wang, T-T. Ong, S-C. Ng, *Tetra. Lettr.*, 53 (2012) 2312.
55. "Thermodynamic Study of Enantioseparation of Mitotane by SFC", F. Antelo, C.C. Santana, T.L.Moitinho, A.G. Barreto, *Sep. Sci Tech.*, 47 (2012) 636.
56. "Chiral Drug Analysis Using Mass Spectrometric Detection Relevant to Research and Practice in Clinical and Forensic Toxicology", A.E.Schwaninger, M.R. Meyer, H.H. Mauer, *J. Chromatogr. A*, (2012).
57. "Chromatographic Separation of Bioactive Oxysterols by GC, HPLC, and SFC", H. McAllister, J. Wu, *Curr. Topics Med. Chem.*, 12 (2012) 1264.
58. "Unexpected Retention Behavior of SFC at the Low Density Near Critical Region of Carbon Dioxide", A. Tarafder, G. Guiochon, *J. Chromatogr. A*, 1229 (2012) 249.
59. "Determination of Carotenoids in Microalgae Using SFE and SFC", V. Abrahamsson, I. Rodriguez-Meizoso, C. Turner, *J. Chromatogr. A*, 1250 (2012) 63.
60. "Use of the Isopycnic Plots in Designing Operations of SFC IV: Pressure and Density Drops Along Columns", A. Tarafder, K. Kaczmarek, M. Ranger, D.P. Poe, G. Guiochon, *J. Chromatogr. A*, 1238 (2012) 132.
61. "Application of SFC/MS to Lipid Profiling of Soybean", J.W. Lee, T. Uchikata, A. Matsubara, T. Nakamura, E. Fukusaki, B. Takeshi, *J. Biosci. Bioeng.*, 113 (2012) 262.
62. "Supercritical Fluid Flash Chromatography: A Greener Technique", Z. Wang, *Bioanalysis*, 4 (2012) 1275.