



Geochemistry Articles – March 2013

Analytical Chemistry

Rapid identification of acetic acid bacteria using MALDI-TOF mass spectrometry fingerprinting

Andrés-Barrao, C., Benagli, C., Chappuis, M., Ortega Pérez, R., Tonolla, M., Barja, F., 2013. *Systematic and Applied Microbiology* 36, 75–81.
<http://www.sciencedirect.com/science/article/pii/S0723202012001294>

Fast Fourier Transform and autocorrelation function for the analysis of complex mass spectra

Apicella, B., Bruno, A., Wang, X., Spinelli, N., 2013. *International Journal of Mass Spectrometry* 338, 30–38.
<http://www.sciencedirect.com/science/article/pii/S1387380613000195>

Using NMR to identify and characterize natural products

Breton, R.C., Reynolds, W.F., 2013. *Natural Product Reports* 30, 501–524.
<http://dx.doi.org/10.1039/C2NP20104F>

Natural product isolation - how to get from biological material to pure compounds

Bucar, F., Wube, A., Schmid, M., 2013. *Natural Product Reports* 30, 525–545.
<http://dx.doi.org/10.1039/C3NP20106F>

Soft ionization of saturated hydrocarbons, alcohols and nonpolar compounds by negative-ion direct analysis in real-time mass spectrometry

Cody, R.B., Dane, A.J., 2013. *Journal of The American Society for Mass Spectrometry* 24, 329–334.
<http://dx.doi.org/10.1007/s13361-012-0569-6>

Carbon isotope separation and molecular formation in laser-induced plasmas by laser ablation molecular isotopic spectrometry

Dong, M., Mao, X., Gonzalez, J.J., Lu, J., Russo, R.E., 2013. *Analytical Chemistry* 85, 2899–2906.
<http://dx.doi.org/10.1021/ac303524d>

Tubular metal–organic framework-based capillary gas chromatography column for separation of alkanes and aromatic positional isomers

Fang, Z.-L., Zheng, S.-R., Tan, J.-B., Cai, S.-L., Fan, J., Yan, X., Zhang, W.-G., 2013. *Journal of Chromatography A* 1285, 132–138.
<http://www.sciencedirect.com/science/article/pii/S0021967313003130>

Structural studies on archaeal phytanyl-ether lipids isolated from membranes of extreme halophiles by linear ion-trap multiple-stage tandem mass spectrometry with electrospray ionization

Hsu, F.-F., Lobasso, S., Turk, J., Corcelli, A., 2013. *Analytica Chimica Acta* 771, 73–85.
<http://www.sciencedirect.com/science/article/pii/S0003267013002249>

HPLC–NMR revisited: Using time-slice high-performance liquid chromatography–solid-phase extraction–nuclear magnetic resonance with database-assisted dereplication

Johansen, K.T., Wubshet, S.G., Nyberg, N.T., 2013. *Analytical Chemistry* 85, 3183–3189.
<http://dx.doi.org/10.1021/ac303455j>

Structural characterization of bacterial lipopolysaccharides with mass spectrometry and on- and off-line separation techniques

Kilár, A., Dörnyei, Á., Kocsis, B., 2013. *Mass Spectrometry Reviews* 32, 90–117.
<http://dx.doi.org/10.1002/mas.21352>

On the determination of a detector response enhancement factor for flow modulated comprehensive two-dimensional gas chromatography

Krupčík, J., Májek, P., Gorovenko, R., Špánik, I., Sandra, P., Armstrong, D.W., 2013. *Journal of Chromatography A* 1286, 235–240.
<http://www.sciencedirect.com/science/article/pii/S0021967313003750>

Characterization of black carbon in geosorbents at the nanometer scale by STEM–EDX elemental mapping

Kuo, D.T.F., Vander Sande, J.B., Gschwend, P.M., 2013. *Organic Geochemistry* 56, 81–93.
<http://www.sciencedirect.com/science/article/pii/S0146638013000028>

Laser-ablation split-stream ICP petrochronology

Kylander-Clark, A.R.C., Hacker, B.R., Cottle, J.M., 2013. *Chemical Geology* 345, 99–112.
<http://www.sciencedirect.com/science/article/pii/S0009254113000788>

Steroid-based facial amphiphiles for stabilization and crystallization of membrane proteins

Lee, S.C., Bennett, B.C., Hong, W.-X., Fu, Y., Baker, K.A., Marcoux, J., Robinson, C.V., Ward, A.B., Halpert, J.R., Stevens, R.C., Stout, C.D., Yeager, M.J., Zhang, Q., 2013. *Proceedings of the National Academy of Sciences* 110, E1203–E1211.
<http://www.pnas.org/content/110/13/E1203.abstract>

Biomarker imaging of single diatom cells in a microbial mat using time-of-flight secondary ion mass spectrometry (ToF-SIMS)

Leefmann, T., Heim, C., Kryvenda, A., Siljeström, S., Sjövall, P., Thiel, V., 2013. *Organic Geochemistry* 57, 23–33.
<http://www.sciencedirect.com/science/article/pii/S0146638013000077>

Carbohydrate structure characterization by tandem ion mobility mass spectrometry (IMMS)²

Li, H., Bendiak, B., Siems, W.F., Gang, D.R., Hill, H.H., 2013. *Analytical Chemistry* 85, 2760–2769.
<http://dx.doi.org/10.1021/ac303273z>

Temperature-programmable resistively heated micromachined gas chromatography and differential mobility spectrometry detection for the determination of non-sulfur odorants in natural gas

Luong, J., Gras, R., Cortes, H.J., Shellie, R.A., 2013. *Analytical Chemistry* 85, 3369–3373.
<http://dx.doi.org/10.1021/ac400067j>

New approach for chemometric analysis of mass spectrometry data

Marhuenda-Egea, F.C., Gonsálvez-Álvarez, R.D., Lledó-Bosch, B., Ten, J., Bernabeu, R., 2013. *Analytical Chemistry* 85, 3053–3058.
<http://dx.doi.org/10.1021/ac303255h>

Chromatographic response functions in 1D and 2D chromatography as tools for assessing chemical complexity

Matos, J.T.V., Duarte, R.M.B.O., Duarte, A.C., 2013. *TrAC Trends in Analytical Chemistry* 45, 14–23.
<http://www.sciencedirect.com/science/article/pii/S0165993613000344>

Laserspray and matrix-assisted ionization inlet coupled to high-field FT-ICR mass spectrometry for peptide and protein analysis

Nyadong, L., Inutan, E.D., Wang, X., Hendrickson, C.L., Trimpin, S., Marshall, A.G., 2013. *Journal of The American Society for Mass Spectrometry* 24, 320–328.
<http://dx.doi.org/10.1007/s13361-012-0545-1>

Memory efficient principal component analysis for the dimensionality reduction of large mass spectrometry imaging data sets

Race, A.M., Steven, R.T., Palmer, A.D., Styles, I.B., Bunch, J., 2013. *Analytical Chemistry* 85, 3071–3078.
<http://dx.doi.org/10.1021/ac302528v>

Identification and quantification of polyfunctionalized hopanoids by high temperature gas chromatography–mass spectrometry

Sessions, A.L., Zhang, L., Welander, P.V., Doughty, D., Summons, R.E., Newman, D.K., 2013. *Organic Geochemistry* 56, 120–130.
<http://www.sciencedirect.com/science/article/pii/S0146638012002719>

High-resolution time-of-flight mass spectrometry for rapid petroleum characterization

Siek, K., Binkley, J., Patrick, J.S., 2013. *Spectroscopy*, Special Issues March 2013, 30–37
<http://www.spectroscopyonline.com/spectroscopy/article/articleDetail.jsp?id=807692&sk=&date=%0A%09%09%09&pageID=2>

Application of GC–MS chromatography for the analysis of the oil fractions extracted by supercritical CO₂ at high pressure

Svetlana, R., Pavel, S., Sogaard, E., 2013. *Fuel* 106, 139–146.
<http://www.sciencedirect.com/science/article/pii/S0016236112010277>

Prediction of gas chromatographic retention indices as classifier in non-target analysis of environmental samples

Ulrich, N., Schüürmann, G., Brack, W., 2013. *Journal of Chromatography A* 1285, 139–147.
<http://www.sciencedirect.com/science/article/pii/S0021967313003269>

Preparation of polydopamine coated Fe₃O₄ nanoparticles and their application for enrichment of polycyclic aromatic hydrocarbons from environmental water samples

Wang, Y., Wang, S., Niu, H., Ma, Y., Zeng, T., Cai, Y., Meng, Z., 2013. *Journal of Chromatography A* 1283, 20–26.
<http://www.sciencedirect.com/science/article/pii/S0021967313002458>

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