



Geochemistry Articles – October 2014

Analytical Chemistry

Analysis of C₆₀-fullerene derivatives and pristine fullerenes in environmental samples by ultrahigh performance liquid chromatography–atmospheric pressure photoionization–mass spectrometry

Astefanei, A., Núñez, O., Galceran, M.T., 2014. *Journal of Chromatography A* 1365, 61–71.
<http://www.sciencedirect.com/science/article/pii/S0021967314013715>

Retention time prediction in temperature-programmed, comprehensive two-dimensional gas chromatography: Modelling and error assessment

Barcaru, A., Anroedh-Sampat, A., Janssen, H.-G., Vivó-Truyols, G., 2014. *Journal of Chromatography A* 1368, 190–198.
<http://www.sciencedirect.com/science/article/pii/S0021967314014897>

Atmospheric pressure solid analysis probe coupled to quadrupole-time of flight mass spectrometry as a tool for screening and semi-quantitative approach of polycyclic aromatic hydrocarbons, nitro-polycyclic aromatic hydrocarbons and oxo-polycyclic aromatic hydrocarbons in complex matrices

Carrizo, D., Domeño, C., Nerín, I., Alfaro, P., Nerín, C., 2015. *Talanta* 131, 175–184.
<http://www.sciencedirect.com/science/article/pii/S0039914014005906>

Quantification of total fatty acids in microalgae: Comparison of extraction and transesterification methods

Cavonius, L.R., Carlsson, N.-G., Undeland, I., 2014. *Analytical and Bioanalytical Chemistry* 406, 7313–7322.
<http://dx.doi.org/10.1007/s00216-014-8155-3>

High pressure super-heated electrospray ionization mass spectrometry for sub-critical aqueous solution

Chen, L.C., Rahman, M.M., Hiraoka, K., 2014. *Journal of The American Society for Mass Spectrometry* 25, 1862–1869.
<http://dx.doi.org/10.1007/s13361-014-0974-0>

Combined comprehensive two-dimensional gas chromatography analysis of polyaromatic hydrocarbons/polyaromatic sulfur-containing hydrocarbons (PAH/PASH) in complex matrices

Dijkmans, T., Van Geem, K.M., Djokic, M.R., Marin, G.B., 2014. *Industrial & Engineering Chemistry Research* 53, 15436–15446.
<http://dx.doi.org/10.1021/ie5000888>

Lipidic spherulites as magnetic resonance imaging contrast agents

Doan, B.-T., Crauste-Manciet, S., Bourgaux, C., Dhotel, H., Juge, L., Brossard, D., Scherman, D., Bessodes, M., Cuenod, C.-A., Mignet, N., 2014. *New Journal of Chemistry* 38, 5190–5197.
<http://dx.doi.org/10.1039/C4NJ00571F>

Branched polymers characterized by comprehensive two-dimensional separations with fully orthogonal mechanisms: Molecular-topology fractionation × size-exclusion chromatography

Edam, R., Mes, E.P.C., Meunier, D.M., Van Damme, F.A., Schoenmakers, P.J., 2014. *Journal of Chromatography A* 1366, 54–64.
<http://www.sciencedirect.com/science/article/pii/S0021967314013910>

Gas chromatographic determination of some phenolic compounds in fuels and engine oil after simultaneous derivatization and microextraction

Farajzadeh, M.A., Yadeghari, A., Khoshmaram, L., Ghorbanpour, H., 2014. *Journal of Separation Science* 37, 2966–2973.
<http://dx.doi.org/10.1002/jssc.201400398>

Recent advances in analysis of petroleum geological samples by comprehensive two-dimensional gas chromatography

Gao, X., Chang, Z., Dai, W., Tong, T., Zhang, W., He, S., Zhu, S., 2014. *Chinese Journal of Chromatography* 32, 1058–1065.
<http://www.chrom-china.com/fileup/PDF/sp1407010.pdf>

Quantification of arsenolipids in the certified reference material NMIJ 7405-a (Hijiki) using HPLC/mass spectrometry after chemical derivatization

Glabonjat, R.A., Raber, G., Jensen, K.B., Ehgartner, J., Francesconi, K.A., 2014. *Analytical Chemistry* 86, 10282–10287.
<http://dx.doi.org/10.1021/ac502488f>

In situ measurement of dissolved methane and carbon dioxide in freshwater ecosystems by off-axis integrated cavity output spectroscopy

Gonzalez-Valencia, R., Magana-Rodriguez, F., Gerardo-Nieto, O., Sepulveda-Jauregui, A., Martinez-Cruz, K., Walter-Anthony, K., Baer, D., Thalasso, F., 2014. *Environmental Science & Technology* 48, 11421–11428.
<http://dx.doi.org/10.1021/es500987j>

Profiling of triacylglycerols in plant oils by high-performance liquid chromatography–atmosphere pressure chemical ionization mass spectrometry using a novel mixed-mode column

Hu, N., Wei, F., Lv, X., Wu, L., Dong, X.-Y., Chen, H., 2014. *Journal of Chromatography B* 972, 65–72.
<http://www.sciencedirect.com/science/article/pii/S157002321400614X>

Cleavage of side chains on thiophenic compounds by supercritical water treatment of crude oil quantified by GC × GC-SCD

Kida, Y., Carr, A.G., Green, W.H., 2014. *Energy & Fuels* 28, 6589–6595.
<http://dx.doi.org/10.1021/ef5015956>

Enumeration of non-labile oxygen atoms in dissolved organic matter by use of $^{16}\text{O}/^{18}\text{O}$ exchange and Fourier transform ion-cyclotron resonance mass spectrometry

Kostyukevich, Y., Kononikhin, A., Zhrebker, A., Popov, I., Perminova, I., Nikolaev, E., 2014. *Analytical and Bioanalytical Chemistry* 406, 6655–6664.
<http://dx.doi.org/10.1007/s00216-014-8097-9>

Biomolecular imaging with a C₆₀-SIMS/MALDI dual ion source hybrid mass spectrometer: Instrumentation, matrix enhancement, and single cell analysis

Lanni, E.J., Dunham, S.J.B., Nemes, P., Rubakhin, S.S., Sweedler, J.V., 2014. *Journal of The American Society for Mass Spectrometry* 25, 1897–1907.
<http://dx.doi.org/10.1007/s13361-014-0978-9>

Differential mobility spectrometry-driven shotgun lipidomics

Lintonen, T.P.I., Baker, P.R.S., Suoniemi, M., Ubhi, B.K., Koistinen, K.M., Duchoslav, E., Campbell, J.L., Ekroos, K., 2014. *Analytical Chemistry* 86, 9662–9669.
<http://dx.doi.org/10.1021/ac5021744>

Expanding the linear dynamic range for quantitative liquid chromatography–high resolution mass spectrometry utilizing natural isotopologue signals

Liu, H., Lam, L., Yan, L., Chi, B., Dasgupta, P.K., 2014. *Analytica Chimica Acta* 850, 65–70.
<http://www.sciencedirect.com/science/article/pii/S0003267014009234>

Profiling of thiol-containing compounds by stable isotope labeling double precursor ion scan mass spectrometry

Liu, P., Huang, Y.-Q., Cai, W.-J., Yuan, B.-F., Feng, Y.-Q., 2014. *Analytical Chemistry* 86, 9765–9773.
<http://dx.doi.org/10.1021/ac5023315>

A high-resolution LC–MS-based secondary metabolite fingerprint database of marine bacteria

Lu, L., Wang, J., Xu, Y., Wang, K., Hu, Y., Tian, R., Yang, B., Lai, Q., Li, Y., Zhang, W., Shao, Z., Lam, H., Qian, P.-Y., 2014. *Scientific Reports* 4, Article number 6537.
<http://dx.doi.org/10.1038/srep06537>

Silver dopants for targeted and untargeted direct analysis of unsaturated lipids via infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI)

Meier, F., Garrard, K.P., Muddiman, D.C., 2014. *Rapid Communications in Mass Spectrometry* 28, 2461–2470.
<http://dx.doi.org/10.1002/rcm.7041>

The Single-probe: A miniaturized multifunctional device for single cell mass spectrometry analysis

Pan, N., Rao, W., Kothapalli, N.R., Liu, R., Burgett, A.W.G., Yang, Z., 2014. *Analytical Chemistry* 86, 9376–9380.
<http://dx.doi.org/10.1021/ac5029038>

Development of a GC/quadrupole-Orbitrap mass spectrometer, Part I: Design and characterization

Peterson, A.C., Hauschild, J.-P., Quarumby, S.T., Krumwiede, D., Lange, O., Lemke, R.A.S., Grosse-Coosmann, F., Horning, S., Donohue, T.J., Westphall, M.S., Coon, J.J., Griep-Raming, J., 2014. *Analytical Chemistry* 86, 10036–10043.
<http://dx.doi.org/10.1021/ac5014767>

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