Organic Geochemistry 97 (2016) e1–e31

Contents lists available at ScienceDirect

Organic Geochemistry

journal homepage: www.elsevier.com/locate/orggeochem

Geochemistry Articles – April 2016

Analytical Chemistry

Optimization and application of atmospheric pressure chemical and photoionization hydrogen–deuterium exchange mass spectrometry for speciation of oxygen-containing compounds
Acter, T., Kim, D., Ahmed, A., Jin, J.M., Yim, U.H., Shim, W.J., Kim, Y.H., Kim, S., 2016. Analytical and Bioanalytical Chemistry 408, 3281–3293.
http://dx.doi.org/10.1007/s00216-016-9399-x

Using variable ionization energy time-of-flight mass spectrometry with comprehensive GC×GC to identify isomeric species
Alam, M.S., Stark, C., Harrison, R.M., 2016. Analytical Chemistry 88, 4211–4220.
http://dx.doi.org/10.1021/acs.analchem.5b03122

Characterization of rhamnolipids by liquid chromatography/mass spectrometry after solid-phase extraction
Behrens, B., Engelen, J., Tiso, T., Blank, L.M., Hayen, H., 2016. Analytical and Bioanalytical Chemistry 408, 2505–2514.
http://dx.doi.org/10.1007/s00216-016-9353-y

Supercritical fluid chromatography coupled with in-source atmospheric pressure ionization hydrogen/deuterium exchange mass spectrometry for compound speciation
Cho, Y., Choi, M.-H., Kim, B., Kim, S., 2016. Journal of Chromatography A 1444, 123–128.
http://www.sciencedirect.com/science/article/pii/S0021967316302618

A digital microfluidic interface between solid-phase microextraction and liquid chromatography–mass spectrometry
Choi, K., Boyacı, E., Kim, J., Seale, B., Barrera-Arbelaez, L., Pawliszyn, J., Wheeler, A.R., 2016. Journal of Chromatography A 1444, 1–7.
http://www.sciencedirect.com/science/article/pii/S0021967316302941

Fully automated on-line solid phase extraction coupled to liquid chromatography–tandem mass spectrometry for the simultaneous analysis of alkylphenol polyethoxylates and their carboxylic and phenolic metabolites in wastewater samples
Ciofi, L., Ancillotti, C., Chiuminatto, U., Fibbi, D., Pasquini, B., Bruzzoniti, M.C., Rivoira, L., Del Bubba, M., 2016. Analytical and Bioanalytical Chemistry 408, 3331–3347.
http://dx.doi.org/10.1007/s00216-016-9403-5

Comprehensive two-dimensional gas chromatographic separations with a temperature programmed microfabricated thermal modulator
Collin, W.R., Nuñovero, N., Paul, D., Kurabayashi, K., Zellers, E.T., 2016. Journal of Chromatography A 1444, 114–122.
http://www.sciencedirect.com/science/article/pii/S0021967316303697

Mass spectrometry in plant-omics
Gemperline, E., Keller, C., Li, L., 2016. Analytical Chemistry 88, 3422–3434.
http://dx.doi.org/10.1021/acs.analchem.5b02938

Toward faster and higher resolution LA–ICPMS imaging: On the co-evolution of LA cell design and ICPMS instrumentation
Gundlach-Graham, A., Günther, D., 2016. Analytical and Bioanalytical Chemistry 408, 2687–2695.
http://dx.doi.org/10.1007/s00216-015-9251-8

Development of a gas chromatography–mass spectrometry method to monitor in a single run, mono- to triterpenoid compounds distribution in resinous plant materials
Jemmali, Z., Chartier, A., Elfakir, C., 2016. Journal of Chromatography A 1443, 241–253.
http://www.sciencedirect.com/science/article/pii/S0021967316302965

http://dx.doi.org/10.1016/j.orggeochem.2016.05.001

Soft- and reactive landing of ions onto surfaces: Concepts and applications
Johnson, G.E., Gunaratne, D., Laskin, J., 2016. Mass Spectrometry Reviews 35, 439–479.
http://dx.doi.org/10.1002/mas.21451

msIQuant – Quantitation software for mass spectrometry imaging enabling fast access, visualization, and analysis of large data sets
Källback, P., Nilsson, A., Shariatgorji, M., Andrén, P.E., 2016. Analytical Chemistry 88, 4346–4353.
http://dx.doi.org/10.1021/acs.analchem.5b04603

Non-targeted evaluation of selectivity of water-compatible class selective adsorbents for the analysis of steroids in wastewater
Kopperi, M., Riekkola, M.-L., 2016. Analytica Chimica Acta 920, 47–53.
http://www.sciencedirect.com/science/article/pii/S0003267016303701

Continuum in MDGC technology: From classical multidimensional to comprehensive two-dimensional gas chromatography
Kulsing, C., Nolvachai, Y., Rawson, P., Evans, D.J., Marriott, P.J., 2016. Analytical Chemistry 88, 3529–3538.
http://dx.doi.org/10.1021/acs.analchem.5b03839

Ionizing aromatic compounds in petroleum by electrospray with $HCOONH_4$ as ionization promoter
Lu, J., Zhang, Y., Shi, Q., 2016. Analytical Chemistry 88, 3471–3475.
http://dx.doi.org/10.1021/acs.analchem.6b00022

Comparative study of organic matter chemical characterization using negative and positive mode electrospray ionization ultrahigh-resolution mass spectrometry
Ohno, T., Sleighter, R.L., Hatcher, P.G., 2016. Analytical and Bioanalytical Chemistry 408, 2497–2504.
http://dx.doi.org/10.1007/s00216-016-9346-x

Two-dimensional gas chromatography-online hydrogenation for improved characterization of petrochemical samples
Potgieter, H., Bekker, R., Govender, A., Rohwer, E., 2016. Journal of Chromatography A 1445, 118–125.
http://www.sciencedirect.com/science/article/pii/S0021967316302746

Establishing atmospheric pressure chemical ionization efficiency scale
Rebane, R., Kruve, A., Liigand, P., Liigand, J., Herodes, K., Leito, I., 2016. Analytical Chemistry 88, 3435–3439.
http://dx.doi.org/10.1021/acs.analchem.5b04852

Fullerenes in asphaltenes and other carbonaceous materials: Natural constituents or laser artifacts
Santos, V.G., Fasciotti, M., Pudenzi, M.A., Klitzke, C.F., Nascimento, H.L., Pereira, R.C.L., Bastos, W.L., Eberlin, M.N., 2016. Analyst 141, 2767–2773.
http://dx.doi.org/10.1039/C5AN02333E

Developments in high-speed countercurrent chromatography and its applications in the separation of terpenoids and saponins
Song, H., Lin, J., Zhu, X., Chen, Q., 2016. Journal of Separation Science 39, 1574–1591.
http://dx.doi.org/10.1002/jssc.201501199

Coupling charge reduction mass spectrometry to liquid chromatography for complex mixture analysis
Stutzman, J.R., Crowe, M.C., Alexander, J.N., Bell, B.M., Dunkle, M.N., 2016. Analytical Chemistry 88, 4130–4139.
http://dx.doi.org/10.1021/acs.analchem.6b00485

Recent progress in application of carbon nanomaterials in laser desorption/ionization mass spectrometry
Wang, J., Liu, Q., Liang, Y., Jiang, G., 2016. Analytical and Bioanalytical Chemistry 408, 2861–2873.
http://dx.doi.org/10.1007/s00216-015-9255-4

Recent advances in materials for stationary phases of mixed-mode high-performance liquid chromatography
Wang, L., Wei, W., Xia, Z., Jie, X., Xia, Z.Z., 2016. TrAC Trends in Analytical Chemistry 80, 495–506.
http://www.sciencedirect.com/science/article/pii/S0165993615302004

Predicting collision-induced dissociation mass spectra: Understanding the role of the mobile proton in small molecule fragmentation
Wright, P., Alex, A., Pullen, F., 2016. Rapid Communications in Mass Spectrometry 30, 1163–1175.
http://dx.doi.org/10.1002/rcm.7521

Recent advances of adsorbents in solid phase extraction for environmental samples
Xiao, J., Wang, J., Fan, H., Zhou, Q., Liu, X., 2016. International Journal of Environmental Analytical Chemistry 96, 407–435.
http://dx.doi.org/10.1080/03067319.2016.1150459