



Geochemistry Articles - November 2013

Analytical Chemistry

Atmospheric pressure photo ionization hydrogen/deuterium exchange mass spectrometry—a method to differentiate isomers by mass spectrometry

Ahmed, A., Kim, S., 2013. *Journal of The American Society for Mass Spectrometry* 24, 1900–1905.
<http://dx.doi.org/10.1007/s13361-013-0726-6>

New spectral deconvolution algorithms for the analysis of polycyclic aromatic hydrocarbons and sulfur heterocycles by comprehensive two-dimensional gas chromatography-quadrupole mass spectrometry

Antle, P.M., Zeigler, C.D., Gankin, Y., Robbat, A., 2013. *Analytical Chemistry* 85, 10369–10376.
<http://dx.doi.org/10.1021/ac402336j>

Compositional and structural investigation of HCN polymer through high resolution mass spectrometry

Bonnet, J.Y., Thissen, R., Frisari, M., Vuitton, V., Quirico, É., Orthous-Daunay, F.-R., Dutuit, O., Le Roy, L., Fray, N., Cottin, H., Hörst, S.M., Yelle, R.V., 2013. *International Journal of Mass Spectrometry* 354–355, 193–203.
<http://www.sciencedirect.com/science/article/pii/S1387380613002492>

High concentration capacity sample preparation techniques to improve the informative potential of two-dimensional comprehensive gas chromatography - mass spectrometry: Application to sensomics

Cordero, C., Cagliero, C., Liberto, E., Nicolotti, L., Rubiolo, P., Sgorbini, B., Bicchi, C., 2013. *Journal of Chromatography A* 1318, 1–11.
<http://www.sciencedirect.com/science/article/pii/S002196731301532X>

Ionic liquids and deep eutectic solvents in natural products research: Mixtures of solids as extraction solvents

Dai, Y., van Spronsen, J., Witkamp, G.-J., Verpoorte, R., Choi, Y.H., 2013. *Journal of Natural Products* 76, 2162–2173.
<http://pubs.acs.org/doi/abs/10.1021/np400051w>

Petroleomics by traveling wave ion mobility–mass spectrometry using CO₂ as a drift gas

Fasciotti, M., Lalli, P.M., Klitzke, C.F., Corilo, Y.E., Pudenzi, M.A., Pereira, R.C.L., Bastos, W., Daroda, R.J., Eberlin, M.N., 2013. *Energy & Fuels*.
<http://pubs.acs.org/doi/abs/10.1021/ef401630b>

Possibilities of new generation columns packed with 1.3 μm core–shell particles in gradient elution mode

Fekete, S., Guillarme, D., 2013. *Journal of Chromatography A* 1320, 86–95.
<http://www.sciencedirect.com/science/article/pii/S0021967313016804>

RAMSY: Ratio analysis of mass spectrometry to improve compound identification

Gu, H., Gowda, G.A.N., Neto, F.C., Opp, M.R., Raftery, D., 2013. *Analytical Chemistry* 85, 10771–10779.
<http://dx.doi.org/10.1021/ac4019268>

Alternating current corona discharge/atmospheric pressure chemical ionization for mass spectrometry

Habib, A., Usmanov, D., Ninomiya, S., Chen, L.C., Hiraoka, K., 2013. *Rapid Communications in Mass Spectrometry* 27, 2760–2766.
<http://dx.doi.org/10.1002/rcm.6744>

Online and splitless nanoLC × capillaryLC with quadrupole/time-of-flight mass spectrometric detection for comprehensive screening analysis of complex samples

Haun, J., Leonhardt, J., Portner, C., Hetzel, T., Tuerk, J., Teutenberg, T., Schmidt, T.C., 2013. *Analytical Chemistry* 85, 10083–10090.
<http://dx.doi.org/10.1021/ac402002m>

Computational mass spectrometry for small-molecule fragmentation

Hufsky, F., Scheubert, K., Böcker, S., 2014. *TrAC Trends in Analytical Chemistry* 53, 41–48.
<http://www.sciencedirect.com/science/article/pii/S016599361300232X>

Applications of resistive heating in gas chromatography: A review

Jacobs, M.R., Hilder, E.F., Shellie, R.A., 2013. *Analytica Chimica Acta* 803, 2–14.
<http://www.sciencedirect.com/science/article/pii/S0003267013006442>

Cluster secondary ion mass spectrometry microscope mode mass spectrometry imaging

Kiss, A., Smith, D.F., Jungmann, J.H., Heeren, R.M.A., 2013. *Rapid Communications in Mass Spectrometry* 27, 2745–2750.
<http://dx.doi.org/10.1002/rcm.6719>

Applications of LA-ICP-MS in the elemental analyses of geological samples

Liu, Y., Hu, Z., Li, M., Gao, S., 2013. *Chinese Science Bulletin* 58, 3863–3878.
<http://dx.doi.org/10.1007/s11434-013-5901-4>

Selective separation and purification of highly polar basic compounds using a silica-based strong cation exchange stationary phase

Long, Z., Guo, Z., Xue, X., Zhang, X., Nordahl, L., Liang, X., 2013. *Analytica Chimica Acta* 804, 304–312.
<http://www.sciencedirect.com/science/article/pii/S0003267013013421>

Unprecedented separation of long chain alkenones from gas chromatography with a poly(trifluoropropylmethylsiloxane) stationary phase

Longo, W.M., Dillon, J.T., Tarozo, R., Salacup, J.M., Huang, Y., 2013. *Organic Geochemistry* 65, 94–102.
<http://www.sciencedirect.com/science/article/pii/S0146638013002386>

A simple approach to reduce dimensionality from comprehensive two-dimensional liquid chromatography coupled with a multichannel detector

Matos, J.T.V., Duarte, R.M.B.O., Duarte, A.C., 2013. *Analytica Chimica Acta* 804, 296–303.
<http://www.sciencedirect.com/science/article/pii/S000326701301341X>

Evaluation of comprehensive two-dimensional gas chromatography with flame photometric detection: Potential application for sulfur speciation in shale oil

Mitrevski, B., Amer, M.W., Chaffee, A.L., Marriott, P.J., 2013. *Analytica Chimica Acta* 803, 174–180.
<http://www.sciencedirect.com/science/article/pii/S0003267013009677>

Alleviating the reference standard dilemma using a systematic exact mass suspect screening approach with liquid chromatography-high resolution mass spectrometry

Moschet, C., Piazzoli, A., Singer, H., Hollender, J., 2013. *Analytical Chemistry* 85, 10312–10320.
<http://dx.doi.org/10.1021/ac4021598>

Improved gas chromatography-flame ionization detector analytical method for the analysis of epoxy fatty acids

Mubiru, E., Shrestha, K., Papastergiadis, A., De Meulenaer, B., 2013. *Journal of Chromatography A* 1318, 217–225.
<http://www.sciencedirect.com/science/article/pii/S0021967313016257>

Single-cell imaging mass spectrometry

Passarelli, M.K., Ewing, A.G., 2013. *Current Opinion in Chemical Biology* 17, 854–859.
<http://www.sciencedirect.com/science/article/pii/S1367593113001464>

Liquid-liquid extraction combined with differential isotope dimethylaminophenacyl labeling for improved metabolomic profiling of organic acids

Peng, J., Li, L., 2013. *Analytica Chimica Acta* 803, 97–105.
<http://www.sciencedirect.com/science/article/pii/S0003267013010064>

Comprehensive two-dimensional gas chromatography with a multi-capillary second dimension: A new column-set format for simultaneous optimum linear velocity operation

Peroni, D., Sampat, A.A.S., van Egmond, W., de Koning, S., Cochran, J., Lautamo, R., Janssen, H.-G., 2013. *Journal of Chromatography A* 1317, 3–11.
<http://www.sciencedirect.com/science/article/pii/S0021967313011989>

Comprehensive sample analysis using high performance liquid chromatography with multi-detection

Pravadali, S., Bassanese, D.N., Conlan, X.A., Francis, P.S., Smith, Z.M., Terry, J.M., Shalliker, R.A., 2013. *Analytica Chimica Acta* 803, 188–193.
<http://www.sciencedirect.com/science/article/pii/S0003267013010775>

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