



Geochemistry Articles – March 2015

Analytical Chemistry

High energy gas cluster ions for organic and biological analysis by time-of-flight secondary ion mass spectrometry

Angerer, T.B., Blenkinsopp, P., Fletcher, J.S., 2015. *International Journal of Mass Spectrometry* 377, 591–598.

<http://www.sciencedirect.com/science/article/pii/S1387380614001821>

Permanent gas analysis using gas chromatography with vacuum ultraviolet detection

Bai, L., Smuts, J., Walsh, P., Fan, H., Hildenbrand, Z., Wong, D., Wetz, D., Schug, K.A., 2015. *Journal of Chromatography A* 1388, 244–250.

<http://www.sciencedirect.com/science/article/pii/S0021967315002174>

Sector instruments for chemical analysis and research

Bateman, R., 2015. *International Journal of Mass Spectrometry* 377, 281–294.

<http://www.sciencedirect.com/science/article/pii/S1387380614001274>

High temperature mass detection using a carbon nanotube bilayer modified quartz crystal microbalance as a GC detector

Benz, M., Benz, L., Patel, S.V., 2015. *Analytical Chemistry* 87, 2779–2787.

<http://dx.doi.org/10.1021/ac504101a>

Direct analysis of complex mixtures by mass spectrometry

Cooks, R.G., Jarmusch, A.K., Wlekinski, M., 2015. *International Journal of Mass Spectrometry* 377, 709–718.

<http://www.sciencedirect.com/science/article/pii/S1387380614002863>

Selective removal of phosphate for analysis of organic acids in complex samples

Deshmukh, S., Frolov, A., Marcillo, A., Birkemeyer, C., 2015. *Journal of Chromatography A* 1388, 1–8.

<http://www.sciencedirect.com/science/article/pii/S002196731500206X>

Comparison of cryogenic and differential flow (forward and reverse fill/flush) modulators and applications to the analysis of heavy petroleum cuts by high-temperature comprehensive gas chromatography

Duhamel, C., Cardinael, P., Peulon-Agasse, V., Firor, R., Pascaud, L., Semard-Jousset, G., Giusti, P., Livadaris, V., 2015. *Journal of Chromatography A* 1387, 95–103.

<http://www.sciencedirect.com/science/article/pii/S0021967315002083>

Methane standards made in whole and synthetic air compared by cavity ring down spectroscopy and gas chromatography with flame ionization detection for atmospheric monitoring applications

Flores, E., Rhoderick, G.C., Viallon, J., Moussay, P., Choteau, T., Gameson, L., Guenther, F.R., Wielgosz, R.I., 2015. *Analytical Chemistry* 87, 3272–3279.

<http://dx.doi.org/10.1021/ac5043076>

Determination of aromatic sulphur compounds in heavy gas oil by using (low-)flow modulated comprehensive two-dimensional gas chromatography-triple quadrupole mass spectrometry

Franchina, F.A., Machado, M.E., Tranchida, P.Q., Zini, C.A., Caramão, E.B., Mondello, L., 2015. *Journal of Chromatography A* 1387, 86–94.

<http://www.sciencedirect.com/science/article/pii/S0021967315001788>

Solvent jet desorption capillary photoionization-mass spectrometry

Haapala, M., Teppo, J., Ollikainen, E., Kiiski, I., Vaikkinen, A., Kauppila, T.J., Kostianen, R., 2015. *Analytical Chemistry* 87, 3280–3285.

<http://dx.doi.org/10.1021/ac504220v>

Comparisons of ambient spray ionization imaging methods

Hamid, T., Lostun, D., Cabral, E.C., Garrett, R., Bohme, D.K., Ifa, D.R., 2015. *International Journal of Mass Spectrometry* 377, 736–743.
<http://www.sciencedirect.com/science/article/pii/S1387380614002978>

Getting the picture: The coming of age of imaging MS

Heeren, R.M.A., 2015. *International Journal of Mass Spectrometry* 377, 672–680.
<http://www.sciencedirect.com/science/article/pii/S1387380614001535>

Elemental analysis of complex organic aerosol using isotopic labeling and unit-resolution mass spectrometry

Hicks, R.K., Day, D.A., Jimenez, J.L., Tolbert, M.A., 2015. *Analytical Chemistry* 87, 2741–2747.
<http://dx.doi.org/10.1021/ac504014g>

An enhanced droplet-based liquid microjunction surface sampling system coupled with HPLC-ESI-MS/MS for spatially resolved analysis

Kertesz, V., Weiskittel, T.M., Van Berkel, G.J., 2015. *Analytical and Bioanalytical Chemistry* 407, 2117–2125.
<http://dx.doi.org/10.1007/s00216-014-8287-5>

Tutorial review on validation of liquid chromatography–mass spectrometry methods: Part I

Kruve, A., Rebane, R., Kipper, K., Oldekop, M.-L., Evard, H., Herodes, K., Ravio, P., Leito, I., 2015. *Analytica Chimica Acta* 870, 29–44.
<http://www.sciencedirect.com/science/article/pii/S0003267015001956>

Tutorial review on validation of liquid chromatography–mass spectrometry methods: Part II

Kruve, A., Rebane, R., Kipper, K., Oldekop, M.-L., Evard, H., Herodes, K., Ravio, P., Leito, I., 2015. *Analytica Chimica Acta* 870, 8–28.
<http://www.sciencedirect.com/science/article/pii/S0003267015001944>

Three-dimensional imaging of lipids and metabolites in tissues by nanospray desorption electrospray ionization mass spectrometry

Lanekoff, I., Burnum-Johnson, K., Thomas, M., Cha, J., Dey, S.K., Yang, P., Prieto Conaway, M.C., Laskin, J., 2015. *Analytical and Bioanalytical Chemistry* 407, 2063–2071.
<http://dx.doi.org/10.1007/s00216-014-8174-0>

Ambient molecular imaging by laser ablation electrospray ionization mass spectrometry with ion mobility separation

Li, H., Smith, B.K., Márk, L., Nemes, P., Nazarian, J., Vertes, A., 2015. *International Journal of Mass Spectrometry* 377, 681–689.
<http://www.sciencedirect.com/science/article/pii/S1387380614002516>

Radio frequency quadrupole technology: Evolution and contributions to mass spectrometry

March, R.E., Todd, J.F.J., 2015. *International Journal of Mass Spectrometry* 377, 316–328.
<http://www.sciencedirect.com/science/article/pii/S1387380614002929>

40 years of Fourier transform ion cyclotron resonance mass spectrometry

Marshall, A.G., Chen, T., 2014. *International Journal of Mass Spectrometry* 377, 410–420.
<http://www.sciencedirect.com/science/article/pii/S1387380614002851>

Fifty years of desorption ionization of nonvolatile compounds

McEwen, C.N., Larsen, B.S., 2014. *International Journal of Mass Spectrometry* 377, 515–531.
<http://www.sciencedirect.com/science/article/pii/S1387380614002784>

Evaluation of a single-stage consumable-free modulator for comprehensive two-dimensional gas chromatography: Analysis of polychlorinated biphenyls, organochlorine pesticides and chlorobenzenes

Muscalu, A.M., Edwards, M., Górecki, T., Reiner, E.J., 2015. *Journal of Chromatography A* 1391, 93–101.
<http://www.sciencedirect.com/science/article/pii/S0021967315003660>

Cellular-level mass spectrometry imaging using infrared matrix-assisted laser desorption electrospray ionization (IR-MALDESI) by oversampling

Nazari, M., Muddiman, D.C., 2015. *Analytical and Bioanalytical Chemistry* 407, 2265–2271.
<http://dx.doi.org/10.1007/s00216-014-8376-5>

Some notes about FT ICR mass spectrometry

Nikolaev, E.N., 2014. *International Journal of Mass Spectrometry* 377, 421–431.
<http://www.sciencedirect.com/science/article/pii/S1387380614003224>

Multidimensional analytical approach based on UHPLC-UV-ion mobility-MS for the screening of natural pigments

Pacini, T., Fu, W., Gudmundsson, S., Chiaravalle, A.E., Brynjolfson, S., Palsson, B.O., Astarita, G., Paglia, G., 2015. *Analytical Chemistry* 87, 2593–2599.
<http://dx.doi.org/10.1021/ac504707n>

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