



Geochemistry Articles – January 2015

**Analytical Chemistry****Protocols for finding the most orthogonal dimensions for two-dimensional high performance liquid chromatography**

Bassanese, D.N., Holland, B.J., Conlan, X.A., Francis, P.S., Barnett, N.W., Stevenson, P.G., 2015. *Talanta* 134, 402–408.
<http://www.sciencedirect.com/science/article/pii/S0039914014009291>

1.1 μm Superficially porous particles for liquid chromatography: Part II: Column packing and chromatographic performance

Blue, L.E., Jorgenson, J.W., 2015. *Journal of Chromatography A* 1380, 71–80.
<http://www.sciencedirect.com/science/article/pii/S0021967314019876>

Recent developments in paper-based microfluidic devices

Cate, D.M., Adkins, J.A., Mettakoonpitak, J., Henry, C.S., 2015. *Analytical Chemistry* 87, 19–41.
<http://dx.doi.org/10.1021/ac503968p>

High lateral resolution vs molecular preservation in near-IR fs-laser desorption/ionization mass spectrometry

Cui, Y., Veryovkin, I.V., Majeski, M.W., Cavazos, D.R., Hanley, L., 2015. *Analytical Chemistry* 87, 367–371.
<http://dx.doi.org/10.1021/ac5041154>

TEXPRESS v1.0: A MATLAB toolbox for efficient processing of GDGT LC–MS data

Dillon, J.T., Huang, Y., 2015. *Organic Geochemistry* 79, 44–48.
<http://www.sciencedirect.com/science/article/pii/S0146638014002897>

Reproducibility of retention time and peak area in comprehensive two-dimensional liquid chromatography

Elsner, V., Wulf, V., Wirtz, M., Schmitz, O.J., 2015. *Analytical and Bioanalytical Chemistry* 407, 279–284.
<http://dx.doi.org/10.1007/s00216-014-8090-3>

Determination of polycyclic aromatic hydrocarbons in water samples by hollow fiber extraction coupled with GC–MS

Guo, J.-F., Guo, Q.-Z., Yan, G.-p., 2015. *Analytical Methods* 7, 1071–1075.
<http://dx.doi.org/10.1039/C4AY02410A>

Solvent minimization in two-dimensional liquid chromatography

Horváth, K., Sepsey, A., Hajós, P., 2015. *Journal of Chromatography A* 1378, 32–36.
<http://www.sciencedirect.com/science/article/pii/S0021967314018858>

Thin layer chromatography-ion mobility spectrometry (TLC–IMS)

Ilbeigi, V., Tabrizchi, M., 2015. *Analytical Chemistry* 87, 464–469.
<http://dx.doi.org/10.1021/ac502685m>

Monolithic and core-shell columns in comprehensive two-dimensional HPLC: A review

Jandera, P., Hájek, T., Staňková, M., 2015. *Analytical and Bioanalytical Chemistry* 407, 139–151.
<http://dx.doi.org/10.1007/s00216-014-8147-3>

Nanomaterial-based miniaturized extraction and preconcentration techniques coupled to matrix-assisted laser desorption/ionization mass spectrometry for assaying biomolecules

Kailasa, S.K., Wu, H.-F., 2015. *TrAC Trends in Analytical Chemistry* 65, 54–72.
<http://www.sciencedirect.com/science/article/pii/S0165993614002477>

Modeling RP-1 fuel advanced distillation data using comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry and partial least squares analysis

Kehimkar, B., Parsons, B.A., Hoggard, J.C., Billingsley, M.C., Bruno, T.J., Synovec, R.E., 2015. *Analytical and Bioanalytical Chemistry* 407, 321–330.
<http://dx.doi.org/10.1007/s00216-014-8233-6>

Molecular approaches to chromatography using single molecule spectroscopy

Kisley, L., Landes, C.F., 2015. *Analytical Chemistry* 87, 83–98.
<http://dx.doi.org/10.1021/ac5039225>

NMR spectroscopy for metabolomics and metabolic profiling

Larive, C.K., Barding, G.A., Dinges, M.M., 2015. *Analytical Chemistry* 87, 133–146.
<http://dx.doi.org/10.1021/ac504075g>

High resolution solid state 2D NMR analysis of biomass and biochar

Le Brech, Y., Delmotte, L., Raya, J., Brosse, N., Gadiou, R., Dufour, A., 2015. *Analytical Chemistry* 87, 843–847.
<http://dx.doi.org/10.1021/ac504237c>

NMR insights into the inner workings of living cells

Lerche, M.H., Jensen, P.R., Karlsson, M., Meier, S., 2015. *Analytical Chemistry* 87, 119–132.
<http://dx.doi.org/10.1021/ac501467x>

The many faces of packed column supercritical fluid chromatography—A critical review

Lesellier, E., West, C., 2015. *Journal of Chromatography A* 1382, 2–46.
<http://www.sciencedirect.com/science/article/pii/S0021967315000242>

Practical considerations in comprehensive two-dimensional liquid chromatography systems (LC×LC) with reversed-phases in both dimensions

Li, D., Jakob, C., Schmitz, O., 2015. *Analytical and Bioanalytical Chemistry* 407, 153–167.
<http://dx.doi.org/10.1007/s00216-014-8179-8>

Thermally sensitive behavior explanation for unusual orthogonality observed in comprehensive two-dimensional gas chromatography comprising a single ionic liquid stationary phase

Nolvachai, Y., Kulsing, C., Marriott, P.J., 2015. *Analytical Chemistry* 87, 538–544.
<http://dx.doi.org/10.1021/ac5030039>

Comprehensive two-dimensional liquid chromatography coupled to high resolution time of flight mass spectrometry for chemical characterization of sewage treatment plant effluents

Ouyang, X., Leonards, P., Legler, J., van der Oost, R., de Boer, J., Lamoree, M., 2015. *Journal of Chromatography A* 1380, pages 139–145.
<http://www.sciencedirect.com/science/article/pii/S002196731402007X>

Fingerprinting of vegetable oil minor components by multidimensional comprehensive gas chromatography with dual detection

Purcaro, G., Barp, L., Beccaria, M., Conte, L.S., 2015. *Analytical and Bioanalytical Chemistry* 407, 309–319.
<http://dx.doi.org/10.1007/s00216-014-8140-x>

Negative electrospray ionization mass spectrometry: A method for sequencing and determining linkage position in oligosaccharides from branched hemicelluloses

Quémener, B., Vigouroux, J., Rathahao, E., Tabet, J.C., Dimitrijevic, A., Lahaye, M., 2015. *Journal of Mass Spectrometry* 50, 247–264.
<http://dx.doi.org/10.1002/jms.3528>

High-energy photon activation tandem mass spectrometry provides unprecedented insights into the structure of highly sulfated oligosaccharides extracted from macroalgal cell walls

Ropartz, D., Giuliani, A., Hervé, C., Geairon, A., Jam, M., Czjzek, M., Rogniaux, H., 2015. *Analytical Chemistry* 87, 1042–1049.
<http://dx.doi.org/10.1021/ac5036007>

Multidimensional chromatography

Schmidt, T.C., Schmitz, O.J., Teutenberg, T., 2015. *Analytical and Bioanalytical Chemistry* 407, 117–118.
<http://dx.doi.org/10.1007/s00216-014-8265-y>

MALDI-TOF mass spectrometry applied to classification and identification of bacteria

Schumann, P., Maier, T., 2014. In: Goodfellow, M., Sutcliffe, I., Chun, J. (Eds.), *Methods in Microbiology*. Vol. 41. New Approaches to Prokaryotic Systematics. Academic Press, pp. 275–306.
<http://www.sciencedirect.com/science/article/pii/S0580951714000063>

Mass spectrometry imaging of biomolecular information

Spengler, B., 2015. *Analytical Chemistry* 87, 64–82.
<http://dx.doi.org/10.1021/ac504543v>

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