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The future of UHPLC: Towards higher pressure and/or smaller particles?
Broeckhoven, K., Desmet, G., 2014. TrAC Trends in Analytical Chemistry 63, 65–75.
http://www.sciencedirect.com/science/article/pii/S0165993614001885

Fast screening of polycyclic aromatic hydrocarbons using trapped ion mobility spectrometry - mass spectrometry
Castellanos, A., Benigni, P., Hernandez, D.R., DeBord, J.D., Ridgeway, M.E., Park, M.A., Fernandez-Lima, F., 2014. Analytical Methods 6, 9328–9332.
http://dx.doi.org/10.1039/C4AY01655F

Enantiomeric separation in comprehensive two-dimensional gas chromatography with accurate mass analysis
Chin, S.-T., Nolvachai, Y., Marriott, P.J., 2014. Chirality 26, 747–753.
http://dx.doi.org/10.1002/chir.22280

Evaluation of laser desorption ionization coupled to Fourier transform ion cyclotron resonance mass spectrometry to study metalloporphyrin complexes
Cho, Y., Witt, M., Jin, J.M., Kim, Y.H., Nho, N.-S., Kim, S., 2014. Energy & Fuels 28, 6699–6706.
http://dx.doi.org/10.1021/ef500997m

Zoom-TOFMS: Addition of a constant-momentum-acceleration "zoom" mode to time-of-flight mass spectrometry
Dennis, E.A., Gundlach-Graham, A.W., Ray, S.J., Enke, C.G., Barinaga, C.J., Koppenaal, D.W., Hieftje, G.M., 2014. Analytical and Bioanalytical Chemistry 406, 7419–7430.
http://dx.doi.org/10.1007/s00216-014-7875-8

Ambient Ionization Mass Spectrometry
Domin, M., Cody, R., 2015. New Developments in Mass Spectrometry. Royal Society of Chemistry, 508 pp.
http://dx.doi.org/10.1039/9781782628026

Ultra-high-pressure liquid chromatography (UHPLC) in method development
Dong, M.W., Zhang, K., 2014. TrAC Trends in Analytical Chemistry 63, 21–30.
http://www.sciencedirect.com/science/article/pii/S016599361400185X

Current and future trends in UHPLC
Fekete, S., Schappler, J., Veuthey, J.-L., Guillarme, D., 2014. TrAC Trends in Analytical Chemistry 63, 2–13.
http://www.sciencedirect.com/science/article/pii/S0165993614002003

Core-shell particles lead the way to renewing high-performance liquid chromatography
González-Ruiz, V., Olives, A.I., Martín, M.A., 2015. TrAC Trends in Analytical Chemistry 64, 17–28.
http://www.sciencedirect.com/science/article/pii/S0165993614002143

The use of columns packed with sub-2 μm particles in supercritical fluid chromatography
Grand-Guillaume Perrenoud, A., Veuthey, J.-L., Guillarme, D., 2014. TrAC Trends in Analytical Chemistry 63, 44–54.
http://www.sciencedirect.com/science/article/pii/S0165993614001903

Method development for simultaneous analyses of multiple legacy and emerging organic chemicals in sediments
Guo, J., Li, Z., Sandy, A.L., Li, A., 2014. Journal of Chromatography A 1370, 1–8.
http://www.sciencedirect.com/science/article/pii/S0021967314015957

http://dx.doi.org/10.1016/j.orggeochem.2014.11.010

Understanding molecular formula assignment of Fourier transform ion cyclotron resonance mass spectrometry data of natural organic matter from a chemical point of view
Herzsprung, P., Hertkorn, N., von Tümpling, W., Harir, M., Friese, K., Schmitt-Kopplin, P., 2014. Analytical and Bioanalytical Chemistry 406, 7977–7987.
http://dx.doi.org/10.1007/s00216-014-8249-y

Analysis of free amino acids in natural waters by liquid chromatography–tandem mass spectrometry
How, Z.T., Busetti, F., Linge, K.L., Kristiana, I., Joll, C.A., Charrois, J.W.A., 2014. Journal of Chromatography A 1370, 135–146.
http://www.sciencedirect.com/science/article/pii/S0021967314016124

Application of two-dimensional gas chromatography-mass spectrometry to determination of biodiesel impurities in hydrocarbon fuels
Kanateva, A.Y., Kurganov, A.A., Yakubenko, E.E., 2014. Petroleum Chemistry 54, 459–465.
http://dx.doi.org/10.1134/S0965544114050053

Combining UHPLC and high-resolution MS: A viable approach for the analysis of complex samples?
Kaufmann, A., 2014. TrAC Trends in Analytical Chemistry 63, 113–128.
http://www.sciencedirect.com/science/article/pii/S0165993614001927

Correlated imaging with C_{60}-SIMS and confocal Raman microscopy: Visualization of cell-scale molecular distributions in bacterial biofilms
Lanni, E.J., Masyuko, R.N., Driscoll, C.M., Dunham, S.J.B., Shrout, J.D., Bohn, P.W., Sweedler, J.V., 2014. Analytical Chemistry 86, 10885–10891.
http://dx.doi.org/10.1021/ac5030914

Lithium cationization for petroleum analysis by positive ion electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry
Lobodin, V.V., Juyal, P., McKenna, A.M., Rodgers, R.P., Marshall, A.G., 2014. Energy & Fuels 28, 6841–6847.
http://dx.doi.org/10.1021/ef501683w

'Extreme mass spectrometry': The role of mass spectrometry in the study of the Antarctic environment
Magi, E., Tanwar, S., 2014. Journal of Mass Spectrometry 49, 1071–1085.
http://dx.doi.org/10.1002/jms.3442

Ion mobility-mass spectrometry strategies for untargeted systems, synthetic, and chemical biology
May, J.C., Goodwin, C.R., McLean, J.A., 2015. Current Opinion in Biotechnology 31, 117–121.
http://www.sciencedirect.com/science/article/pii/S0958166914001803

Quantitative and qualitative analysis of hemicellulose, cellulose and lignin bio-oils by comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry
Michailof, C., Sfetsas, T., Stefanidis, S., Kalogiannis, K., Theodoridis, G., Lappas, A., 2014. Journal of Chromatography A 1369, 147–160.
http://www.sciencedirect.com/science/article/pii/S0021967314015799

A novel aspect of spectroscopy for porphyrinic compounds under magnetic fields
Mulyana, Y., Ishii, K., 2014. Dalton Transactions 43, 17596–17605.
http://dx.doi.org/10.1039/C4DT01428F

Analysis of *Drosophila* lipids by matrix-assisted laser desorption/ionization mass spectrometric imaging
Niehoff, A.-C., Kettling, H., Pirkl, A., Chiang, Y.N., Dreisewerd, K., Yew, J.Y., 2014. Analytical Chemistry 86, 11086–11092.
http://dx.doi.org/10.1021/ac503171f

Molecular composition of saturated hydrocarbons in diesels by comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry
Niu, L., Liu, Z., Zhou, J., Cai, X., Tian, S., 2014. Chinese Journal of Chromatography 32, 1236–1241.
http://www.chrom-china.com/EN/abstract/abstract13727.shtml

Hydrophilic interaction chromatography of polar and ionizable compounds by UHPLC
Nováková, L., Havlíková, L., Vlčková, H., 2014. TrAC Trends in Analytical Chemistry 63, 55–64.
http://www.sciencedirect.com/science/article/pii/S0165993614001976

Transmission geometry laser desorption atmospheric pressure photochemical ionization mass spectrometry for analysis of complex organic mixtures
Nyadong, L., Mapolelo, M.M., Hendrickson, C.L., Rodgers, R.P., Marshall, A.G., 2014. Analytical Chemistry 86, 11151–11158.
http://pubs.acs.org/doi/abs/10.1021/ac502138p