Organic Geochemistry 87 (2015) e1–e30

Contents lists available at ScienceDirect

Organic Geochemistry

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

Geochemistry Articles – July 2015

Analytical Chemistry

An international round-robin study for the analysis of particulate semi-volatile organics by thermal desorption gas chromatography mass spectrometry
Caravaggio, G., Hebbern, C., Ding, L., Cakmak, S., 2015. International Journal of Environmental Analytical Chemistry 95, 754–775.
http://dx.doi.org/10.1080/03067319.2015.1055469

Development of an accurate and high-throughput methodology for structural comprehension of chlorophylls derivatives. (i) phytylated derivatives
Chen, K., Ríos, J.J., Pérez-Gálvez, A., Roca, M., 2015. Journal of Chromatography A 1406, 99–108.
http://www.sciencedirect.com/science/article/pii/S0021967315008110

Fast and accurate numerical method for predicting gas chromatography retention time
Claumann, C.A., Wüst Zibetti, A., Bolzan, A., Machado, R.A.F., Pinto, L.T., 2015. Journal of Chromatography A 1406, 258–265.
http://www.sciencedirect.com/science/article/pii/S0021967315008201

Quantification of biodiesel in biodiesel-diesel blends using spectrofluorimetry and multivariate calibration
Corgozinho, C.N.C., Barbeira, P.J.S., 2015. Journal of Analytical Chemistry 70, 936–942.
http://dx.doi.org/10.1134/S1061934815080067

Enantiomer-specific analysis of multi-component mixtures by correlated electron imaging-ion mass spectrometry
Fanood, M.M.R., Ram, N.B., Lehmann, C.S., Powis, I., Janssen, M.H.M., 2015. Nature Communications 6, Article number 7511.
http://dx.doi.org/10.1038/ncomms8511

Critical role of a pre-purge setup in the thermal desorption analysis of volatile organic compounds by gas chromatography with mass spectrometry
Kim, Y.-H., Kim, K.-H., 2015. Journal of Separation Science 38, 2455–2462.
http://dx.doi.org/10.1002/jssc.201500367

Combining mass spectrometric metabolic profiling with genomic analysis: A powerful approach for discovering natural products from cyanobacteria
Kleigrewe, K., Almaliti, J., Tian, I.Y., Kinnel, R.B., Korobeynikov, A., Monroe, E.A., Duggan, B.M., Di Marzo, V., Sherman, D.H., Dorrestein, P.C., Gerwick, L., Gerwick, W.H., 2015. Journal of Natural Products 78, 1671–1682.
http://pubs.acs.org/doi/abs/10.1021/acs.jnatprod.5b00301

High-throughput and comprehensive lipidomic analysis using ultrahigh-performance supercritical fluid chromatography–mass spectrometry
Lísa, M., Holčapek, M., 2015. Analytical Chemistry 87, 7187–7195.
http://dx.doi.org/10.1021/acs.analchem.5b01054

Mass spectrometry tools and workflows for revealing microbial chemistry
Luzzatto-Knaan, T., Melnik, A.V., Dorrestein, P.C., 2015. Analyst 140, 4949–4966.
http://dx.doi.org/10.1039/C5AN00171D

Development of a magnetic solid-phase extraction coupled with high-performance liquid chromatography method for the analysis of polyaromatic hydrocarbons
Ma, Y., Xie, J., Jin, J., Wang, W., Yao, Z., Zhou, Q., Li, A., Liang, Y., 2015. Journal of Separation Science 38, 2517–2525.
http://dx.doi.org/10.1002/jssc.201500183

Design of C_{18} organic phases with multiple embedded polar groups for ultraversatile applications with ultrahigh selectivity
Mallik, A.K., Qiu, H., Oishi, T., Kuwahara, Y., Takafuji, M., Ihara, H., 2015. Analytical Chemistry 87, 6614–6621.
http://dx.doi.org/10.1021/acs.analchem.5b00663

Chromatographic behavior of small organic compounds in low-temperature high-performance liquid chromatography using liquid carbon dioxide as the mobile phase
Motono, T., Nagai, T., Kitagawa, S., Ohtani, H., 2015. Journal of Separation Science 38, 2381–2386.
http://dx.doi.org/10.1002/jssc.201500151

A high throughput ambient mass spectrometric approach to species identification and classification from chemical fingerprint signatures
Musah, R.A., Espinoza, E.O., Cody, R.B., Lesiak, A.D., Christensen, E.D., Moore, H.E., Maleknia, S., Drijfhout, F.P., 2015. Scientific Reports 5, Article number 11520.
http://dx.doi.org/10.1038/srep11520

Determination of polycyclic aromatic hydrocarbons in fractions in asphalt mixtures using liquid chromatography coupled to mass spectrometry with atmospheric pressure chemical ionization
Nascimento, P.C., Gobo, L.A., Bohrer, D., Carvalho, L.M., Cravo, M.C., Leite, L.F.M., 2015. Journal of Separation Science 38, 2238–2244.
http://dx.doi.org/10.1002/jssc.201401231

Methods for characterization of organic compounds in atmospheric aerosol particles
Parshintsev, J., Hyötyläinen, T., 2015. Analytical and Bioanalytical Chemistry 407, 5877–5897.
http://dx.doi.org/10.1007/s00216-014-8394-3

Hyphenation of thermal analysis to ultrahigh-resolution mass spectrometry (Fourier transform ion cyclotron resonance mass spectrometry) using atmospheric pressure chemical ionization for studying composition and thermal degradation of complex materials
Rüger, C.P., Miersch, T., Schwemer, T., Sklorz, M., Zimmermann, R., 2015. Analytical Chemistry 87, 6493–6499.
http://dx.doi.org/10.1021/acs.analchem.5b00785

Characterisation of ship diesel primary particulate matter at the molecular level by means of ultra-high-resolution mass spectrometry coupled to laser desorption ionisation—comparison of feed fuel, filter extracts and direct particle measurements
Rüger, C.P., Sklorz, M., Schwemer, T., Zimmermann, R., 2015. Analytical and Bioanalytical Chemistry 407, 5923–5937.
http://dx.doi.org/10.1007/s00216-014-8408-1

MALDI-TOF mass spectrometry: An emerging technology for microbial identification and diagnosis
Singhal, N., Kumar, M., Kanaujia, P.K., Virdi, J.S., 2015. Frontiers in Microbiology 6, 791. doi: 10.3389/fmicb.2015.00791.
http://journal.frontiersin.org/article/10.3389/fmicb.2015.00791/abstract

Archaeological/Art Organic Chemistry

Comment on "Sedimentary DNA from a submerged site reveals wheat in the British Isles 8000 years ago"
Bennett, K.D., 2015. Science 349, 247.
http://www.sciencemag.org/content/349/6245/247.2.abstract

Why are they still there? A model of accumulation and decay of organic prehistoric cultural deposits
Bleicher, N., Schubert, C., 2015. Journal of Archaeological Science 61, 277–286.
http://www.sciencedirect.com/science/article/pii/S0305440315002162

Application of derivatization pyrolysis gas chromatography/mass spectrometry to analysis of archaeological lacquerwares
Igo, S., Honda, T., Lu, R., Kamiya, Y., Miyakoshi, T., 2015. Journal of Analytical and Applied Pyrolysis 114, 302–307.
http://www.sciencedirect.com/science/article/pii/S0165237015300322

How 'pastoral' is pastoralism? Dietary diversity in Bronze Age communities in the central Kazakhstan steppes
Lightfoot, E., Motuzaite-Matuzeviciute, G., O'Connell, T.C., Kukushkin, I.A., Loman, V., Varfolomeev, V., Liu, X., Jones, M.K., 2015. Archaeometry 57, 232–249.
http://dx.doi.org/10.1111/arcm.12123

Isotope and faunal evidence for high levels of freshwater fish consumption by Late Glacial humans at the Late Upper Palaeolithic site of Šandalja II, Istria, Croatia
Richards, M.P., Karavanić, I., Pettitt, P., Miracle, P., 2015. Journal of Archaeological Science 61, 204–212.
http://www.sciencedirect.com/science/article/pii/S0305440315002149