

Ralf Zimmermann

List of Publications by Year in descending order

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159
papers

8,155
citations

81900

39
h-index

54911

84
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167
all docs

167
docs citations

167
times ranked

8028
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of black carbon measurement techniques for marine engine emissions using three marine fuel types. <i>Aerosol Science and Technology</i> , 2022, 56, 46-62.	3.1	4
2	Genotoxic and inflammatory effects of spruce and brown coal briquettes combustion aerosols on lung cells at the air-liquid interface. <i>Science of the Total Environment</i> , 2022, 806, 150489.	8.0	9
3	Single-particle characterization of polycyclic aromatic hydrocarbons in background air in northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1495-1514.	4.9	12
4	A comparative study of persistent DNA oxidation and chromosomal instability induced in vitro by oxidizers and reference airborne particles. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2022, 874-875, 503446.	1.7	2
5	Molecular Characterization of Water-Soluble Aerosol Particle Extracts by Ultrahigh-Resolution Mass Spectrometry: Observation of Industrial Emissions and an Atmospherically Aged Wildfire Plume at Lake Baikal. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1095-1107.	2.7	12
6	The priming effect of diesel exhaust on native pollen exposure at the air-liquid interface. <i>Environmental Research</i> , 2022, 211, 112968.	7.5	5
7	pH modifies the oxidative potential and peroxide content of biomass burning HULIS under dark aging. <i>Science of the Total Environment</i> , 2022, 834, 155365.	8.0	13
8	Impact of Thermal Stress on Abrasive Dust from a Carbon Fiber-Reinforced Concrete Composite. <i>Fibers</i> , 2022, 10, 39.	4.0	3
9	On the Complementarity and Informative Value of Different Electron Ionization Mass Spectrometric Techniques for the Chemical Analysis of Secondary Organic Aerosols. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1358-1374.	2.7	4
10	Clinical and genetic characterization of a cohort of 97 CLN6 patients tested at a single center. <i>Orphanet Journal of Rare Diseases</i> , 2022, 17, 179.	2.7	6
11	Effect of hydrothermal carbonization and eutectic salt mixture (KCl/LiCl) on the pyrolysis of Kraft lignin as revealed by thermal analysis coupled to advanced high-resolution mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105604.	5.5	10
12	External trap-and-release membrane inlet for photoionization mass spectrometry: Towards fast direct analysis of aromatic pollutants in aquatic systems. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8863.	1.5	2
13	Cyclic Ion Mobility Spectrometry Coupled to High-Resolution Time-of-Flight Mass Spectrometry Equipped with Atmospheric Solid Analysis Probe for the Molecular Characterization of Combustion Particulate Matter. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 206-217.	2.8	6
14	Sorption and biodegradation parameters of selected pharmaceuticals in laboratory column experiments. <i>Journal of Contaminant Hydrology</i> , 2021, 236, 103738.	3.3	10
15	Combustion by-products and their health effects: Summary of the 16th international congress. <i>Fuel</i> , 2021, 283, 118562.	6.4	0
16	Hyper-fast gas chromatography and single-photon ionisation time-of-flight mass spectrometry with integrated electrical modulator-based sampling for headspace and online VOC analyses. <i>Analyst</i> , The, 2021, 146, 3137-3149.	3.5	8
17	Atmospheric Pressure Single Photon Laser Ionization (APSPLI) Mass Spectrometry Using a 157 nm Fluorine Excimer Laser for Sensitive and Selective Detection of Non- to Semipolar Hydrocarbons. <i>Analytical Chemistry</i> , 2021, 93, 3691-3697.	6.5	7
18	Comparison of Different Analytical Methods for the On-Site Analysis of Traces at Clandestine Drug Laboratories. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3754.	2.5	1

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19	Speciation of organosulfur compounds in carbonaceous chondrites. <i>Scientific Reports</i> , 2021, 11, 7410.	3.3	8
20	Adenine derivatization for LC-MS/MS epigenetic DNA modifications studies on monocytic THP-1 cells exposed to reference particulate matter. <i>Analytical Biochemistry</i> , 2021, 618, 114127.	2.4	3
21	Toxicity of Water- and Organic-Soluble Wood Tar Fractions from Biomass Burning in Lung Epithelial Cells. <i>Chemical Research in Toxicology</i> , 2021, 34, 1588-1603.	3.3	17
22	Air pollution in Germany: Spatio-temporal variations and their driving factors based on continuous data from 2008 to 2018. <i>Environmental Pollution</i> , 2021, 276, 116732.	7.5	22
23	Puff-Resolved Analysis and Selected Quantification of Chemicals in the Gas Phase of E-Cigarettes, Heat-Not-Burn Devices, and Conventional Cigarettes Using Single-Photon Ionization Time-of-Flight Mass Spectrometry (SPI-TOFMS): A Comparative Study. <i>Nicotine and Tobacco Research</i> , 2021, 23, 2135-2144.	2.6	9
24	Investigation of Chemical Composition and Fiber-Occurrence in Inhalable Particulate Matter Obtained from Dry Cutting Processes of Carbon Fiber Reinforced Concrete Composite, Concrete and the Carbon Fiber Reinforcement Materials. <i>Aerosol Science and Engineering</i> , 2021, 5, 292-306.	1.9	4
25	Variation of Absorption Ångström Exponent in Aerosols From Different Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034094.	3.3	37
26	Dried Blood Spot (DBS) Methodology Study for Biomarker Discovery in Lysosomal Storage Disease (LSD). <i>Metabolites</i> , 2021, 11, 382.	2.9	7
27	Detection of ship plumes from residual fuel operation in emission control areas using single-particle mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4171-4185.	3.1	17
28	Vacuum Laser Photoionization inside the C-trap of an Orbitrap Mass Spectrometer: Resonance-Enhanced Multiphoton Ionization High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9418-9427.	6.5	10
29	Comprehensive Chemical Description of Pyrolysis Chars from Low-Density Polyethylene by Thermal Analysis Hyphenated to Different Mass Spectrometric Approaches. <i>Energy & Fuels</i> , 2021, 35, 18185-18193.	5.1	9
30	Secondary organic aerosols produced from photochemical oxidation of secondarily evaporated biomass burning organic gases: Chemical composition, toxicity, optical properties, and climate effect. <i>Environment International</i> , 2021, 157, 106801.	10.0	11
31	Investigation of Island/Single-Core- and Archipelago/Multicore-Enriched Asphaltenes and Their Solubility Fractions by Thermal Analysis Coupled with High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 3808-3824.	5.1	25
32	Review on Evolved Gas Analysis Mass Spectrometry with Soft Photoionization for the Chemical Description of Petroleum, Petroleum-Derived Materials, and Alternative Feedstocks. <i>Energy & Fuels</i> , 2021, 35, 18308-18332.	5.1	20
33	Gas chromatography in combination with fast high-resolution time-of-flight mass spectrometry: Technical overview and perspectives for data visualization. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115677.	11.4	34
34	Profiling of synthesis-related impurities of the synthetic cannabinoid Cumylacetylacetic acid (CUMYLACAC) in seized samples of e-liquids via multivariate analysis of UHPLC-MS data. <i>Drug Testing and Analysis</i> , 2020, 12, 119-126.	2.6	12
35	Source apportionment of fine particulate matter in a Middle Eastern Metropolis, Tehran-Iran, using PMF with organic and inorganic markers. <i>Science of the Total Environment</i> , 2020, 705, 135330.	8.0	30
36	Resonance-enhanced detection of metals in aerosols using single-particle mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7139-7152.	4.9	10

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37	Characterization of Polyethylene Branching by Thermal Analysis-Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2362-2369.	2.8	2
38	Smart Online Coffee Roasting Process Control: Modelling Coffee Roast Degree and Brew Antioxidant Capacity for Real-Time Prediction by Resonance-Enhanced Multi-Photon Ionization Mass Spectrometric (REMPI-TOFMS) Monitoring of Roast Gases. <i>Foods</i> , 2020, 9, 627.	4.3	9
39	Extraction kinetics of tea aroma compounds as a function brewing temperature, leaf size and water hardness. <i>Flavour and Fragrance Journal</i> , 2020, 35, 365-375.	2.6	10
40	Investigation of Aging Processes in Bitumen at the Molecular Level with High-Resolution Fourier-Transform Ion Cyclotron Mass Spectrometry and Two-Dimensional Gas Chromatography Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 10641-10654.	5.1	22
41	Is the particle deposition in a cell exposure facility comparable to the lungs? A computer model approach. <i>Aerosol Science and Technology</i> , 2020, 54, 668-684.	3.1	2
42	Combination of stable isotope ratio data and chromatographic impurity signatures as a comprehensive concept for the profiling of highly prevalent synthetic cannabinoids and their precursors. <i>Analytica Chimica Acta</i> , 2020, 1108, 129-141.	5.4	2
43	Toward Smart Online Coffee Roasting Process Control: Feasibility of Real-Time Prediction of Coffee Roast Degree and Brew Antioxidant Capacity by Single-Photon Ionization Mass Spectrometric Monitoring of Roast Gases. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4752-4759.	5.2	16
44	Organic molecular markers and source contributions in a polluted municipality of north-east Italy: Extended PCA-PMF statistical approach. <i>Environmental Research</i> , 2020, 186, 109587.	7.5	18
45	Integration of air pollution data collected by mobile measurement to derive a preliminary spatiotemporal air pollution profile from two neighboring German-Czech border villages. <i>Science of the Total Environment</i> , 2020, 722, 137632.	8.0	27
46	Real time monitoring of slow pyrolysis of polyethylene terephthalate (PET) by different mass spectrometric techniques. <i>Waste Management</i> , 2020, 106, 226-239.	7.4	55
47	Evaluation of reversed phase versus normal phase column combination for the quantitative analysis of common commercial available middle distillates using GC-TOFMS and Visual Basic Script. <i>Fuel</i> , 2019, 235, 336-338.	6.4	28
48	Spatially Shaped Laser Pulses for the Simultaneous Detection of Polycyclic Aromatic Hydrocarbons as well as Positive and Negative Inorganic Ions in Single Particle Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 10282-10288.	6.5	21
49	Infrared-absorbing carbonaceous tar can dominate light absorption by marine-engine exhaust. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	71
50	Description of Steam Cracker Fouling and Coking Residues by Thermal Analysis-Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2019, 33, 11592-11602.	5.1	10
51	Development and Optimization of an External-Membrane Introduction Photoionization Mass Spectrometer for the Fast Analysis of (Polycyclic)Aromatic Compounds in Environmental and Process Waters. <i>Analytical Chemistry</i> , 2019, 91, 15547-15554.	6.5	9
52	Detailed Chemical Characterization of Bunker Fuels by High-Resolution Time-of-Flight Mass Spectrometry Hyphenated to GC-MS and Thermal Analysis. <i>Energy & Fuels</i> , 2019, 33, 10745-10755.	5.1	23
53	Chemical profiling of the synthetic cannabinoid MDMB-CHMICA: Identification, assessment, and stability study of synthesis-related impurities in seized and synthesized samples. <i>Drug Testing and Analysis</i> , 2019, 11, 1192-1206.	2.6	6
54	Direct inlet probe " High-resolution time-of-flight mass spectrometry as fast technique for the chemical description of complex high-boiling samples. <i>Talanta</i> , 2019, 202, 308-316.	5.5	16

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55	Impact of photochemical ageing on Polycyclic Aromatic Hydrocarbons (PAH) and oxygenated PAH (Oxy-PAH/OH-PAH) in logwood stove emissions. <i>Science of the Total Environment</i> , 2019, 686, 382-392.	8.0	32
56	Evaluation and application of gas chromatography - vacuum ultraviolet spectroscopy for drug- and explosive precursors and examination of non-negative matrix factorization for deconvolution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 129-134.	3.9	17
57	Dynamic changes in optical and chemical properties of tar ball aerosols by atmospheric photochemical aging. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 139-163.	4.9	81
58	Contributions of City-Specific Fine Particulate Matter (PM _{2.5}) to Differential <i>In Vitro</i> Oxidative Stress and Toxicity Implications between Beijing and Guangzhou of China. <i>Environmental Science & Technology</i> , 2019, 53, 2881-2891.	10.0	109
59	A novel high-volume Photochemical Emission Aging flow tube Reactor (PEAR). <i>Aerosol Science and Technology</i> , 2019, 53, 276-294.	3.1	20
60	PM _{2.5} concentration and composition in the urban air of Nanjing, China: Effects of emission control measures applied during the 2014 Youth Olympic Games. <i>Science of the Total Environment</i> , 2019, 652, 1-18.	8.0	26
61	Spatial and temporal variation of sources contributing to quasi-ultrafine particulate matter PM _{0.36} in Augsburg, Germany. <i>Science of the Total Environment</i> , 2018, 631-632, 191-200.	8.0	4
62	Organic speciation of ambient quasi-ultrafine particulate matter (PM _{0.36}) in Augsburg, Germany: Seasonal variability and source apportionment. <i>Science of the Total Environment</i> , 2018, 615, 828-837.	8.0	13
63	Chemical composition and speciation of particulate organic matter from modern residential small-scale wood combustion appliances. <i>Science of the Total Environment</i> , 2018, 612, 636-648.	8.0	42
64	Identification of specific markers for amphetamine synthesised from the precursor APAAN following the Leuckart route and retrospective search for APAAN markers in profiling databases from Germany and the Netherlands. <i>Drug Testing and Analysis</i> , 2018, 10, 671-680.	2.6	12
65	Combination of Different Thermal Analysis Methods Coupled to Mass Spectrometry for the Analysis of Asphaltenes and Their Parent Crude Oils: Comprehensive Characterization of the Molecular Pyrolysis Pattern. <i>Energy & Fuels</i> , 2018, 32, 2699-2711.	5.1	42
66	Determination of Relative Ionization Cross Sections for Resonance Enhanced Multiphoton Ionization of Polycyclic Aromatic Hydrocarbons. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1617.	2.5	17
67	Brown and Black Carbon Emitted by a Marine Engine Operated on Heavy Fuel Oil and Distillate Fuels: Optical Properties, Size Distributions, and Emission Factors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6175-6195.	3.3	62
68	Time-resolved chemical composition of small-scale batch combustion emissions from various wood species. <i>Fuel</i> , 2018, 233, 224-236.	6.4	26
69	Ambient Pressure Laser Desorption/Chemical Ionization Mass Spectrometry for Fast and Reliable Detection of Explosives, Drugs, and Their Precursors. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 933.	2.5	13
70	A Novel Impurity-Profilng Workflow with the Combination of Flash-Chromatography, UHPLC-MS, and Multivariate Data Analysis for Highly Pure Drugs: A Study on the Synthetic Cannabinoid MDMB-CHMICA. <i>Analytical Chemistry</i> , 2018, 90, 10559-10567.	6.5	9
71	Thermal Resilience of Imidazolium-Based Ionic Liquids: Studies on Short- and Long-Term Thermal Stability and Decomposition Mechanism of 1-Alkyl-3-methylimidazolium Halides by Thermal Analysis and Single-Photon Ionization Time-of-Flight Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8738-8749.	2.6	33
72	Evolution of Volatile Flavor Compounds During Roasting of Nut Seeds by Thermogravimetry Coupled to Fast-Cycling Optical Heating Gas Chromatography-Mass Spectrometry with Electron and Photoionization. <i>Food Analytical Methods</i> , 2017, 10, 49-62.	2.6	24

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73	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10976-10991.	5.3	65
74	Seasonal variation of particle-induced oxidative potential of airborne particulate matter in Beijing. <i>Science of the Total Environment</i> , 2017, 579, 1152-1160.	8.0	47
75	Characterization of a heroin manufacturing process based on acidic extracts by combining complementary information from two-dimensional gas chromatography and high resolution mass spectrometry. <i>Forensic Chemistry</i> , 2017, 4, 9-18.	2.8	15
76	Using aromatic polyamines with high proton affinity as "proton sponge" dopants for electrospray ionisation mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 49-54.	1.0	2
77	Comprehensive chemical comparison of fuel composition and aerosol particles emitted from a ship diesel engine by gas chromatography atmospheric pressure chemical ionisation ultra-high resolution mass spectrometry with improved data processing routines. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 28-39.	1.0	20
78	Aerosol Mass Spectrometer for Simultaneous Detection of Polyaromatic Hydrocarbons and Inorganic Components from Individual Particles. <i>Analytical Chemistry</i> , 2017, 89, 6341-6345.	6.5	29
79	A minimal-invasive method for systemic bio-monitoring of the environmental pollutant phenanthrene in humans: Thermal extraction and gas chromatography " mass spectrometry from 1 mL capillary blood. <i>Journal of Chromatography A</i> , 2017, 1487, 254-257.	3.7	9
80	Direct Infusion Resonance-Enhanced Multiphoton Ionization Mass Spectrometry of Liquid Samples under Vacuum Conditions. <i>Analytical Chemistry</i> , 2017, 89, 10917-10923.	6.5	14
81	Proof of Concept of High-Temperature Comprehensive Two-Dimensional Gas Chromatography Time-of-Flight Mass Spectrometry for Two-Dimensional Simulated Distillation of Crude Oils. <i>Energy & Fuels</i> , 2017, 31, 11651-11659.	5.1	19
82	A chemometric investigation of aromatic emission profiles from a marine engine in comparison with residential wood combustion and road traffic: Implications for source apportionment inside and outside sulphur emission control areas. <i>Atmospheric Environment</i> , 2017, 167, 212-222.	4.1	22
83	Effect of functional groups on the thermal degradation of phosphorus- and phosphorus/nitrogen-containing functional polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 799-812.	3.6	18
84	Thermal Analysis Coupled to Ultrahigh Resolution Mass Spectrometry with Collision Induced Dissociation for Complex Petroleum Samples: Heavy Oil Composition and Asphaltene Precipitation Effects. <i>Energy & Fuels</i> , 2017, 31, 13144-13158.	5.1	44
85	Quantitative analysis of modern fuels derived from middle distillates " The impact of diverse compositions on standard methods evaluated by an offline hyphenation of HPLC-refractive index detection with GC-TOFMS. <i>Fuel</i> , 2017, 187, 16-25.	6.4	28
86	An evolved gas analysis method for the characterization of sulfur vapor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 955-960.	3.6	12
87	Systemische Analyse von volatilen Organika zur metabolischen Charakterisierung von Mausmutanten. <i>Pneumologie</i> , 2017, 71, .	0.1	0
88	Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel. <i>PLoS ONE</i> , 2016, 11, e0157964.	2.5	29
89	Vacuum ultraviolet absorption spectroscopy in combination with comprehensive two-dimensional gas chromatography for the monitoring of volatile organic compounds in breath gas: A feasibility study. <i>Journal of Chromatography A</i> , 2016, 1464, 141-146.	3.7	45
90	Erd"l in seine Bestandteile zerlegen und charakterisieren. <i>Nachrichten Aus Der Chemie</i> , 2016, 64, 751-754.	0.0	4

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91	Resolving Coffee Roasting-Degree Phases Based on the Analysis of Volatile Compounds in the Roasting Off-Gas by Photoionization Time-of-Flight Mass Spectrometry (PI-TOFMS) and Statistical Data Analysis: Toward a PI-TOFMS Roasting Model. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 5223-5231.	5.2	25
92	Insights into isoprene production using the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , 2016, 9, 89.	6.2	49
93	Rapid and direct volatile compound profiling of black and green teas (<i>Camellia sinensis</i>) from different countries with PTR-ToF-MS. <i>Talanta</i> , 2016, 152, 45-53.	5.5	44
94	Characterisation of the impact of open biomass burning on urban air quality in Brisbane, Australia. <i>Environment International</i> , 2016, 91, 230-242.	10.0	34
95	Pyrolysis-gas chromatography-mass spectrometry with electron-ionization and resonance-enhanced-multi-photon-ionization for the characterization of terrestrial dissolved organic matter in the Baltic Sea. <i>Analytical Methods</i> , 2016, 8, 2592-2603.	2.7	12
96	Online Analysis of Biomass Pyrolysis Tar by Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 1555-1563.	5.1	55
97	Hyphenation of Thermal Analysis to Ultrahigh-Resolution Mass Spectrometry (Fourier Transform Ion) Tj ETQq1 1 0.784314 rgBT /Overbo Studying Composition and Thermal Degradation of Complex Materials. <i>Analytical Chemistry</i> , 2015, 87, 6493-6499.	6.5	50
98	Highly Time-Resolved Imaging of Combustion and Pyrolysis Product Concentrations in Solid Fuel Combustion: NO Formation in a Burning Cigarette. <i>Analytical Chemistry</i> , 2015, 87, 1711-1717.	6.5	17
99	Mass spectrometric characterization of limited proteolysis activity in human plasma samples under mild acidic conditions. <i>Methods</i> , 2015, 89, 30-37.	3.8	10
100	Analysis of Gas-Phase Carbonyl Compounds in Emissions from Modern Wood Combustion Appliances: Influence of Wood Type and Combustion Appliance. <i>Energy & Fuels</i> , 2015, 29, 3897-3907.	5.1	37
101	Characteristics and temporal evolution of particulate emissions from a ship diesel engine. <i>Applied Energy</i> , 2015, 155, 204-217.	10.1	76
102	Characterisation of ship diesel primary particulate matter at the molecular level by means of ultra-high-resolution mass spectrometry coupled to laser desorption ionisationâ€”comparison of feed fuel, filter extracts and direct particle measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5923-5937.	3.7	29
103	Aerosols and health: a challenge for chemical and biological analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5863-5867.	3.7	5
104	Optically Heated Ultra-Fast-Cycling Gas Chromatography Module for Separation of Direct Sampling and Online Monitoring Applications. <i>Analytical Chemistry</i> , 2015, 87, 8634-8639.	6.5	10
105	Needle trap sampling thermal-desorption resonance enhanced multiphoton ionization time-of-flight mass spectrometry for analysis of marine diesel engine exhaust. <i>Analytical Methods</i> , 2015, 7, 3608-3617.	2.7	13
106	Investigating the Trace Polar Species Present in Diesel Using High-Resolution Mass Spectrometry and Selective Ionization Techniques. <i>Energy & Fuels</i> , 2015, 29, 5554-5562.	5.1	18
107	Pyrolysisâ€”gas chromatographyâ€”mass spectrometry with electron-ionization or resonance-enhanced-multi-photon-ionization for characterization of polycyclic aromatic hydrocarbons in the Baltic Sea. <i>Marine Pollution Bulletin</i> , 2015, 99, 35-42.	5.0	14
108	Fast Pyrolysis in a Microfluidized Bed Reactor: Effect of Biomass Properties and Operating Conditions on Volatiles Composition as Analyzed by Online Single Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2015, 29, 7364-7374.	5.1	54

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109	Gas Chromatography Coupled to Atmospheric Pressure Chemical Ionization FT-ICR Mass Spectrometry for Improvement of Data Reliability. <i>Analytical Chemistry</i> , 2015, 87, 11957-11961.	6.5	23
110	Application of pyrolysis-mass spectrometry and pyrolysis-gas chromatography-mass spectrometry with electron-ionization or resonance-enhanced-multi-photon ionization for characterization of crude oils. <i>Analytica Chimica Acta</i> , 2015, 855, 60-69.	5.4	24
111	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536.	2.5	111
112	Spatial and temporal variability of source contributions to ambient PM10 during winter in Augsburg, Germany using organic and inorganic tracers. <i>Chemosphere</i> , 2014, 103, 263-273.	8.2	24
113	Identification of the sources of primary organic aerosols at urban schools: A molecular marker approach. <i>Environmental Pollution</i> , 2014, 191, 158-165.	7.5	3
114	Two-stroke scooters are a dominant source of air pollution in many cities. <i>Nature Communications</i> , 2014, 5, 3749.	12.8	126
115	Resonance-Enhanced Multiphoton Ionization Mass Spectrometry (REMPI-MS): Applications for Process Analysis. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 361-381.	5.4	59
116	High secondary aerosol contribution to particulate pollution during haze events in China. <i>Nature</i> , 2014, 514, 218-222.	27.8	3,582
117	Advanced scripting for the automated profiling of two-dimensional gas chromatography-time-of-flight mass spectrometry data from combustion aerosol. <i>Journal of Chromatography A</i> , 2014, 1364, 241-248.	3.7	29
118	Hyphenation of thermogravimetry and soft single photon ionization-ion trap mass spectrometry (TG-SPI-ITMS) for evolved gas analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1471-1479.	3.6	7
119	Evolved gas analysis by single photon ionization-mass spectrometry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1461-1469.	3.6	38
120	Complete Group-Type Quantification of Petroleum Middle Distillates Based on Comprehensive Two-Dimensional Gas Chromatography Time-of-Flight Mass Spectrometry (GC-GC-TOFMS) and Visual Basic Scripting. <i>Energy & Fuels</i> , 2014, 28, 5670-5681.	5.1	80
121	Diurnal cycle of fossil and nonfossil carbon using radiocarbon analyses during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6818-6835.	3.3	82
122	SHORT-TERM EVAPORATION OF SEMI-VOLATILE N-ALKANE AEROSOL PARTICLES: EXPERIMENTAL AND COMPUTATIONAL APPROACH. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 1775-1785.	0.6	6
123	Thermal analysis/evolved gas analysis using single photon ionization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 1667-1673.	3.6	18
124	Flow injection of liquid samples to a mass spectrometer with ionization under vacuum conditions: a combined ion source for single-photon and electron impact ionization. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6953-6957.	3.7	12
125	Rapid comprehensive characterization of crude oils by thermogravimetry coupled to fast modulated gas chromatography-single photon ionization time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7107-7116.	3.7	27
126	On-line process monitoring of coffee roasting by resonant laser ionisation time-of-flight mass spectrometry: bridging the gap from industrial batch roasting to flavour formation inside an individual coffee bean. <i>Journal of Mass Spectrometry</i> , 2013, 48, 1253-1265.	1.6	35

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127	Photo ionisation in mass spectrometry: light, selectivity and molecular ions. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6901-6905.	3.7	26
128	Assessment of the presence of damiana in herbal blends of forensic interest based on comprehensive two-dimensional gas chromatography. <i>Forensic Toxicology</i> , 2013, 31, 251-262.	2.4	13
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