

Christopher Paul RÃ¼ger

List of Publications by Year in descending order

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42
papers

1,093
citations

471509

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414414

32
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48
all docs

48
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Impact of Thermal Stress on Abrasive Dust from a Carbon Fiber-Reinforced Concrete Composite. <i>Fibers</i> , 2022, 10, 39.	4.0	3
4	Exposure to naphthalene and β -pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. <i>Environment International</i> , 2022, 166, 107366.	10.0	18
5	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
6	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
7	Direct Insertion Analysis of Polymer-Modified Bitumen by Atmospheric Pressure Chemical Ionization Ultrahigh-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 2165-2173.	5.1	5
8	Structural analysis of petroporphyrins from asphaltene by trapped ion mobility coupled with Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst</i> , 2021, 146, 4161-4171.	3.5	11
9	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
10	Exploring Complex Mixtures by Cyclic Ion Mobility High-Resolution Mass Spectrometry: Application Toward Petroleum. <i>Analytical Chemistry</i> , 2021, 93, 5872-5881.	6.5	25
11	Speciation of organosulfur compounds in carbonaceous chondrites. <i>Scientific Reports</i> , 2021, 11, 7410.	3.3	8
12	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
13	Ion mobility mass spectrometry of in situ generated biomass pyrolysis products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105164.	5.5	4
14	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
15	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
16	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
17	Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021, 35, 16335-16376.	5.1	21
18	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

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19	Optimization of ion trajectories in a dynamically harmonized Fourierâ€transform ion cyclotron resonance cell using a design of experiments strategy. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8659.	1.5	9
20	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
21	Direct Inlet Probe Atmospheric Pressure Photo and Chemical Ionization Coupled to Ultrahigh Resolution Mass Spectrometry for the Description of Lignocellulosic Biomass. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 822-831.	2.8	15
22	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
23	Structural Analysis of Neutral Nitrogen Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by High-Resolution Tandem Mass Spectrometry and Ion Mobilityâ€Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 9328-9338.	5.1	10
24	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
25	Dealing with complexity: general discussion. <i>Faraday Discussions</i> , 2019, 218, 138-156.	3.2	1
26	High resolution techniques: general discussion. <i>Faraday Discussions</i> , 2019, 218, 247-267.	3.2	4
27	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
28	Structural analysis of heavy oil fractions after hydrodenitrogenation by high-resolution tandem mass spectrometry and ion mobility spectrometry. <i>Faraday Discussions</i> , 2019, 218, 417-430.	3.2	43
29	Direct inlet probe â€ 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
30	Structural Study of Analogues of Titanâ€™s Haze by Trapped Ion Mobility Coupled with a Fourier Transform Ion Cyclotron Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1169-1173.	2.8	12
31	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
32	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
33	Using aromatic polyamines with high proton affinity as â€proton spongeâ€dopants for electrospray ionisation mass spectrometry. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 49-54.	1.0	2
34	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
35	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
36	Hyphenation of Thermal Analysis to Ultrahigh-Resolution Mass Spectrometry (Fourier Transform Ion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Studying Composition and Thermal Degradation of Complex Materials. <i>Analytical Chemistry</i> , 2015, 87, 6493-6499.	6.5	50

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37	Innovative methods in soil phosphorus research: A review. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 43-88.	1.9	256
38	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
39	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. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5923-5937.	3.7	29
40	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
41	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
42	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