

Philippe Schmitt-Kopplin

List of Publications by Year in descending order

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499
papers

25,663
citations

5891

81
h-index

12933

131
g-index

523
all docs

523
docs citations

523
times ranked

28290
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of a major refractory component of marine dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2990-3010.	1.6	731
2	High-fat diet alters gut microbiota physiology in mice. <i>ISME Journal</i> , 2014, 8, 295-308.	4.4	583
3	GTP Cyclohydrolase 1/Tetrahydrobiopterin Counteract Ferroptosis through Lipid Remodeling. <i>ACS Central Science</i> , 2020, 6, 41-53.	5.3	551
4	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. <i>Science</i> , 2013, 342, 1069-1073.	6.0	487
5	High molecular diversity of extraterrestrial organic matter in Murchison meteorite revealed 40 years after its fall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2763-2768.	3.3	466
6	Naturally Occurring Human Urinary Peptides for Use in Diagnosis of Chronic Kidney Disease. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2424-2437.	2.5	434
7	Metabolomics Reveals Metabolic Biomarkers of Crohn's Disease. <i>PLoS ONE</i> , 2009, 4, e6386.	1.1	429
8	Natural Organic Matter and the Event Horizon of Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 8908-8919.	3.2	394
9	High-field NMR spectroscopy and FTICR mass spectrometry: powerful discovery tools for the molecular level characterization of marine dissolved organic matter. <i>Biogeosciences</i> , 2013, 10, 1583-1624.	1.3	276
10	Capillary electrophoresis mass spectrometry: 15 years of developments and applications. <i>Electrophoresis</i> , 2003, 24, 3837-3867.	1.3	271
11	The dynamic range of the human metabolome revealed by challenges. <i>FASEB Journal</i> , 2012, 26, 2607-2619.	0.2	268
12	High-precision frequency measurements: indispensable tools at the core of the molecular-level analysis of complex systems. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1311-1327.	1.9	267
13	Molecular transformation and degradation of refractory dissolved organic matter in the Atlantic and Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 321-337.	1.6	247
14	Oral versus intravenous iron replacement therapy distinctly alters the gut microbiota and metabolome in patients with IBD. <i>Gut</i> , 2017, 66, 863-871.	6.1	237
15	Molecular characterization of effluent organic matter identified by ultrahigh resolution mass spectrometry. <i>Water Research</i> , 2011, 45, 2943-2953.	5.3	224
16	Impact of Dietary Resistant Starch on the Human Gut Microbiome, Metaproteome, and Metabolome. <i>MBio</i> , 2017, 8, .	1.8	219
17	Response of <i>Arabidopsis thaliana</i> to N-hexanoyl-dl-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. <i>Planta</i> , 2008, 229, 73-85.	1.6	201
18	A molecular perspective on the ageing of marine dissolved organic matter. <i>Biogeosciences</i> , 2012, 9, 1935-1955.	1.3	200

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19	Selective Chlorination of Natural Organic Matter: Identification of Previously Unknown Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2013, 47, 2264-2271.	4.6	194
20	The Microbial Metabolite Butyrate Induces Expression of Th1-Associated Factors in CD4+ T Cells. <i>Frontiers in Immunology</i> , 2017, 8, 1036.	2.2	193
21	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	6.0	191
22	Tracking changes in the optical properties and molecular composition of dissolved organic matter during drinking water production. <i>Water Research</i> , 2015, 85, 286-294.	5.3	191
23	MassTRIX: mass translator into pathways. <i>Nucleic Acids Research</i> , 2008, 36, W481-W484.	6.5	190
24	The <i>Arabidopsis</i> Glucosyltransferase UGT76B1 Conjugates Isoleucic Acid and Modulates Plant Defense and Senescence. <i>Plant Cell</i> , 2011, 23, 4124-4145.	3.1	186
25	Metabonomic fingerprints of fasting plasma and spot urine reveal human pre-diabetic metabolic traits. <i>Metabolomics</i> , 2010, 6, 362-374.	1.4	181
26	Variations of DOM Quality in Inflows of a Drinking Water Reservoir: Linking of van Krevelen Diagrams with EEMF Spectra by Rank Correlation. <i>Environmental Science & Technology</i> , 2012, 46, 5511-5518.	4.6	180
27	Metabolic Functions of Gut Microbes Associate With Efficacy of Tumor Necrosis Factor Antagonists in Patients With Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2019, 157, 1279-1292.e11.	0.6	180
28	CE-MS analysis of the human urinary proteome for biomarker discovery and disease diagnostics. <i>Proteomics - Clinical Applications</i> , 2008, 2, 964-973.	0.8	178
29	Practical Approach for the Identification and Isomer Elucidation of Biomarkers Detected in a Metabonomic Study for the Discovery of Individuals at Risk for Diabetes by Integrating the Chromatographic and Mass Spectrometric Information. <i>Analytical Chemistry</i> , 2008, 80, 1280-1289.	3.2	178
30	Cyclic Lipopeptides of <i>Bacillus amyloliquefaciens</i> subsp. <i>plantarum</i> Colonizing the Lettuce Rhizosphere Enhance Plant Defense Responses Toward the Bottom Rot Pathogen <i>Rhizoctonia solani</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 984-995.	1.4	173
31	Transitory microbial habitat in the hyperarid Atacama Desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2670-2675.	3.3	172
32	Kendrick-Analogous Network Visualisation of Ion Cyclotron Resonance Fourier Transform Mass Spectra: Improved Options for the Assignment of Elemental Compositions and the Classification of Organic Molecular Complexity. <i>European Journal of Mass Spectrometry</i> , 2011, 17, 415-421.	0.5	170
33	Dietary fat and gut microbiota interactions determine diet-induced obesity in mice. <i>Molecular Metabolism</i> , 2016, 5, 1162-1174.	3.0	170
34	Wine microbiome: A dynamic world of microbial interactions. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 856-873.	5.4	169
35	A Review on Solid Phase Micro Extractionâ€™High Performance Liquid Chromatography (SPME-HPLC) Analysis of Pesticides. <i>Critical Reviews in Analytical Chemistry</i> , 2005, 35, 71-85.	1.8	161
36	Analysis of the Unresolved Organic Fraction in Atmospheric Aerosols with Ultrahigh-Resolution Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy: Organosulfates As Photochemical Smog Constituents. <i>Analytical Chemistry</i> , 2010, 82, 8017-8026.	3.2	158

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37	Changes in Dissolved Organic Matter during the Treatment Processes of a Drinking Water Plant in Sweden and Formation of Previously Unknown Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2014, 48, 12714-12722.	4.6	155
38	Structural Changes in a Dissolved Soil Humic Acid during Photochemical Degradation Processes under O ₂ and N ₂ Atmosphere. <i>Environmental Science & Technology</i> , 1998, 32, 2531-2541.	4.6	152
39	Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory. <i>Science</i> , 2016, 354, 456-459.	6.0	152
40	Environmental and Agricultural Relevance of Humic Fractions Extracted by Alkali from Soils and Natural Waters. <i>Journal of Environmental Quality</i> , 2019, 48, 217-232.	1.0	148
41	Occurrence and distribution of UV-filters and other anthropogenic contaminants in coastal surface water, sediment, and coral tissue from Hawaii. <i>Science of the Total Environment</i> , 2019, 670, 398-410.	3.9	144
42	The chemodiversity of wines can reveal a metabiogeography expression of cooperage oak wood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9174-9179.	3.3	141
43	Pathway analysis of the transcriptome and metabolome of salt sensitive and tolerant poplar species reveals evolutionary adaptation of stress tolerance mechanisms. <i>BMC Plant Biology</i> , 2010, 10, 150.	1.6	141
44	Liquid chromatography–mass spectrometry in metabolomics research: Mass analyzers in ultra high pressure liquid chromatography coupling. <i>Journal of Chromatography A</i> , 2013, 1292, 51-65.	1.8	139
45	Physico-chemical characterization of SOA derived from catechol and guaiacol – a model substance for the aromatic fraction of atmospheric HULIS. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1-15.	1.9	137
46	Membrane vesicle-mediated bacterial communication. <i>ISME Journal</i> , 2017, 11, 1504-1509.	4.4	131
47	Randomized controlled trial on the impact of early-life intervention with bifidobacteria on the healthy infant fecal microbiota and metabolome. <i>American Journal of Clinical Nutrition</i> , 2017, 106, 1274-1286.	2.2	124
48	Microbial transformation of virus-induced dissolved organic matter from picocyanobacteria: coupling of bacterial diversity and DOM chemodiversity. <i>ISME Journal</i> , 2019, 13, 2551-2565.	4.4	122
49	Development of capillary electrophoresis methods for the analysis of fluoroquinolones and application to the study of the influence of humic substances on their photodegradation in aqueous phase. <i>Journal of Chromatography A</i> , 1999, 837, 253-265.	1.8	120
50	Structural characterization of organic aerosol using Fourier transform ion cyclotron resonance mass spectrometry: Aromaticity equivalent approach. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2445-2454.	0.7	119
51	Understanding molecular formula assignment of Fourier transform ion cyclotron resonance mass spectrometry data of natural organic matter from a chemical point of view. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7977-7987.	1.9	119
52	D-tryptophan from probiotic bacteria influences the gut microbiome and allergic airway disease. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1525-1535.	1.5	119
53	Water droplets in oil are microhabitats for microbial life. <i>Science</i> , 2014, 345, 673-676.	6.0	118
54	Proposed Guidelines for Solid Phase Extraction of Suwannee River Dissolved Organic Matter. <i>Analytical Chemistry</i> , 2016, 88, 6680-6688.	3.2	118

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55	Dissolved organic matter in sea spray: a transfer study from marine surface water to aerosols. <i>Biogeosciences</i> , 2012, 9, 1571-1582.	1.3	117
56	Challenges of metabolomics in human gut microbiota research. <i>International Journal of Medical Microbiology</i> , 2016, 306, 266-279.	1.5	117
57	A grape and wine chemodiversity comparison of different appellations in Burgundy: Vintage vs terroir effects. <i>Food Chemistry</i> , 2014, 152, 100-107.	4.2	112
58	Microbial community of the deep-sea brine lake K_{10} brine interface is active below the chaotropy limit of life as revealed by recovery of mRNA. <i>Environmental Microbiology</i> , 2015, 17, 364-382.	1.8	109
59	Metabolic evidence for biogeographic isolation of the extremophilic bacterium $Salinibacter ruber$. <i>ISME Journal</i> , 2008, 2, 242-253.	4.4	108
60	Distinct signatures of host microbial meta-metabolome and gut microbiome in two C57BL/6 strains under high-fat diet. <i>ISME Journal</i> , 2014, 8, 2380-2396.	4.4	106
61	Molecular characterization of dissolved organic matter from subtropical wetlands: a comparative study through the analysis of optical properties, NMR and FTICR/MS. <i>Biogeosciences</i> , 2016, 13, 2257-2277.	1.3	105
62	Unraveling different chemical fingerprints between a champagne wine and its aerosols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16545-16549.	3.3	104
63	Synbiotic-driven improvement of metabolic disturbances is associated with changes in the gut microbiome in diet-induced obese mice. <i>Molecular Metabolism</i> , 2019, 22, 96-109.	3.0	102
64	Capillary electrophoresis - mass spectrometry: Survey on developments and applications 2003-2004. <i>Electrophoresis</i> , 2005, 26, 1209-1220.	1.3	100
65	Picocyanobacteria and deep-ocean fluorescent dissolved organic matter share similar optical properties. <i>Nature Communications</i> , 2017, 8, 15284.	5.8	100
66	Uptake, degradation and chiral discrimination of N-acyl-D/L-homoserine lactones by barley (Hordeum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 1447-1457.	1.9	98
67	In Situ Synthesis of Magnetic Multiwalled Carbon Nanotube Composites for the Clean-up of (Fluoro)Quinolones from Human Plasma Prior to Ultrahigh Pressure Liquid Chromatography Analysis. <i>Analytical Chemistry</i> , 2010, 82, 2743-2752.	3.2	98
68	How representative are dissolved organic matter (DOM) extracts? A comprehensive study of sorbent selectivity for DOM isolation. <i>Water Research</i> , 2017, 116, 316-323.	5.3	98
69	Chemical and spectroscopic characterization of marine dissolved organic matter isolated using coupled reverse osmosis-electrodialysis. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4215-4231.	1.6	96
70	Characterization of Dissolved Organic Matter in Full Scale Continuous Stirred Tank Biogas Reactors Using Ultrahigh Resolution Mass Spectrometry: A Qualitative Overview. <i>Environmental Science & Technology</i> , 2012, 46, 12711-12719.	4.6	96
71	Physical Heterogeneity Increases Biofilm Resource Use and Its Molecular Diversity in Stream Mesocosms. <i>PLoS ONE</i> , 2010, 5, e9988.	1.1	96
72	Analysis of agrochemicals by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 891, 45-67.	1.8	95

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73	Gut metabolites and bacterial community networks during a pilot intervention study with flaxseeds in healthy adult men. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 1614-1628.	1.5	95
74	Metabolomics of transgenic maize combining Fourier transform-ion cyclotron resonance-mass spectrometry, capillary electrophoresis-mass spectrometry and pressurized liquid extraction. <i>Journal of Chromatography A</i> , 2009, 1216, 7314-7323.	1.8	92
75	Utilization and Transformation of Aquatic Humic Substances by Autochthonous Microorganisms. <i>Environmental Science & Technology</i> , 2002, 36, 4334-4345.	4.6	91
76	Serum 27-nor-5 β -Cholestane-3,7,12,24,25 Pentol Glucuronide Discovered by Metabolomics as Potential Diagnostic Biomarker for Epithelium Ovarian Cancer. <i>Journal of Proteome Research</i> , 2011, 10, 2625-2632.	1.8	89
77	Molecular and structural characterization of dissolved organic matter during and post cyanobacterial bloom in Taihu by combination of NMR spectroscopy and FTICR mass spectrometry. <i>Water Research</i> , 2014, 57, 280-294.	5.3	87
78	Insights into the Chemistry of Non-Enzymatic Browning Reactions in Different Ribose-Amino Acid Model Systems. <i>Scientific Reports</i> , 2018, 8, 16879.	1.6	87
79	Prevalence and nature of heating processes in CM and C2-ungrouped chondrites as revealed by insoluble organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 17-37.	1.6	86
80	Identification of bacterial N-acylhomoserine lactones (AHLs) with a combination of ultra-performance liquid chromatography (UPLC), ultra-high-resolution mass spectrometry, and in-situ biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 455-467.	1.9	83
81	MassTRIX Reloaded: Combined Analysis and Visualization of Transcriptome and Metabolome Data. <i>PLoS ONE</i> , 2012, 7, e39860.	1.1	82
82	Dynamic regulation of N-acyl-homoserine lactone production and degradation in <i>Pseudomonas putida</i> IsoF. <i>FEMS Microbiology Ecology</i> , 2010, 72, 22-34.	1.3	81
83	Fine-scale evolution: genomic, phenotypic and ecological differentiation in two coexisting <i>Salinibacter ruber</i> strains. <i>ISME Journal</i> , 2010, 4, 882-895.	4.4	81
84	GC/MS-based metabolomics reveals fatty acid biosynthesis and cholesterol metabolism in cell lines infected with influenza A virus. <i>Talanta</i> , 2010, 83, 262-268.	2.9	81
85	Quorum Sensing Inhibition by <i>Asparagopsis taxiformis</i> , a Marine Macro Alga: Separation of the Compound that Interrupts Bacterial Communication. <i>Marine Drugs</i> , 2013, 11, 253-265.	2.2	81
86	Sulfonolipids as novel metabolite markers of <i>Alistipes</i> and <i>Odoribacter</i> affected by high-fat diets. <i>Scientific Reports</i> , 2017, 7, 11047.	1.6	78
87	Extensive processing of sediment pore water dissolved organic matter during anoxic incubation as observed by high-field mass spectrometry (FTICR-MS). <i>Water Research</i> , 2018, 129, 252-263.	5.3	78
88	The Root Extract of the Medicinal Plant <i>Pelargonium sidoides</i> Is a Potent HIV-1 Attachment Inhibitor. <i>PLoS ONE</i> , 2014, 9, e87487.	1.1	78
89	Influence of Borate Buffers on the Electrophoretic Behavior of Humic Substances in Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , 1998, 70, 3798-3808.	3.2	76
90	Molecular microbiology methods for environmental diagnosis. <i>Environmental Chemistry Letters</i> , 2016, 14, 423-441.	8.3	75

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91	Mycorrhiza-Triggered Transcriptomic and Metabolomic Networks Impinge on Herbivore Fitness. <i>Plant Physiology</i> , 2018, 176, 2639-2656.	2.3	75
92	Metabonomics Study on the Effects of the Ginsenoside Rg3 in a β -Cyclodextrin-Based Formulation on Tumor-Bearing Rats by a Fully Automatic Hydrophilic Interaction/Reversed-Phase Column-Switching HPLC-ESI-MS Approach. <i>Analytical Chemistry</i> , 2008, 80, 4680-4688.	3.2	74
93	Total Mass Difference Statistics Algorithm: A New Approach to Identification of High-Mass Building Blocks in Electrospray Ionization Fourier Transform Ion Cyclotron Mass Spectrometry Data of Natural Organic Matter. <i>Analytical Chemistry</i> , 2009, 81, 10106-10115.	3.2	74
94	Automated Label-free Quantification of Metabolites from Liquid Chromatography-Mass Spectrometry Data. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 348-359.	2.5	74
95	Depth-dependent molecular composition and photo-reactivity of dissolved organic matter in a boreal lake under winter and summer conditions. <i>Biogeosciences</i> , 2013, 10, 6945-6956.	1.3	73
96	Design of Quinonoid-Enriched Humic Materials with Enhanced Redox Properties. <i>Environmental Science & Technology</i> , 2005, 39, 8518-8524.	4.6	72
97	Development and application of a method for the analysis of N-acylhomoserine lactones by solid-phase extraction and ultra high pressure liquid chromatography. <i>Journal of Chromatography A</i> , 2006, 1134, 186-193.	1.8	72
98	Trends in CE-MS 2005-2006. <i>Electrophoresis</i> , 2008, 29, 66-79.	1.3	72
99	Evolution of Complex Maillard Chemical Reactions, Resolved in Time. <i>Scientific Reports</i> , 2017, 7, 3227.	1.6	72
100	RNAi-mediated suppression of isoprene emission in poplar transiently impacts phenolic metabolism under high temperature and high light intensities: a transcriptomic and metabolomic analysis. <i>Plant Molecular Biology</i> , 2010, 74, 61-75.	2.0	71
101	Maribo-A new CM fall from Denmark. <i>Meteoritics and Planetary Science</i> , 2012, 47, 30-50.	0.7	71
102	High precision mass measurements for wine metabolomics. <i>Frontiers in Chemistry</i> , 2014, 2, 102.	1.8	71
103	Halogenated Organic Compounds Identified in Hydraulic Fracturing Wastewaters Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2017, 51, 5377-5385.	4.6	71
104	Wine microbiology is driven by vineyard and winery anthropogenic factors. <i>Microbial Biotechnology</i> , 2017, 10, 354-370.	2.0	71
105	How Subtle Is the "Terroir" Effect? Chemistry-Related Signatures of Two "Climats de Bourgogne". <i>PLoS ONE</i> , 2014, 9, e97615.	1.1	71
106	Capillary electrophoresis in the analysis of humic substances. <i>Journal of Chromatography A</i> , 1998, 807, 101-109.	1.8	69
107	UV-B mediated metabolic rearrangements in poplar revealed by non-targeted metabolomics. <i>Plant, Cell and Environment</i> , 2015, 38, 892-904.	2.8	69
108	IL-17 controls central nervous system autoimmunity through the intestinal microbiome. <i>Science Immunology</i> , 2021, 6, .	5.6	67

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109	Quantitative and qualitative precision improvements by effective mobility-scale data transformation in capillary electrophoresis analysis. <i>Electrophoresis</i> , 2001, 22, 77-87.	1.3	66
110	Direct analysis of selected N-acyl-L-homoserine lactones by gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1341-1344.	0.7	66
111	Rapid biotic molecular transformation of fulvic acids in a karst aquifer. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5474-5482.	1.6	66
112	Tracking Aging of Bitumen and Its Saturate, Aromatic, Resin, and Asphaltene Fractions Using High-Field Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2017, 31, 4771-4779.	2.5	66
113	Steroid hormone signalling links reproduction to lifespan in dietary-restricted <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2014, 5, 4879.	5.8	65
114	Photocatalytic reactions of imazamox at TiO ₂ , H ₂ O ₂ and TiO ₂ /H ₂ O ₂ in water interfaces: Kinetic and photoproducts study. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 524-532.	10.8	63
115	Dietary non-fermentable fiber prevents autoimmune neurological disease by changing gut metabolic and immune status. <i>Scientific Reports</i> , 2018, 8, 10431.	1.6	63
116	Bromination of Marine Dissolved Organic Matter following Full Scale Electrochemical Ballast Water Disinfection. <i>Environmental Science & Technology</i> , 2015, 49, 9048-9055.	4.6	62
117	Metabolomic investigations in cerebrospinal fluid of Parkinson's disease. <i>PLoS ONE</i> , 2018, 13, e0208752.	1.1	62
118	Dissipation of racemic mecoprop and dichlorprop and their pure R-enantiomers in three calcareous soils with and without peat addition. <i>Environmental Pollution</i> , 2001, 111, 209-215.	3.7	61
119	Determination of glycoalkaloids and relative aglycones by nonaqueous capillary electrophoresis coupled with electrospray ionization-ion trap mass spectrometry. <i>Electrophoresis</i> , 2002, 23, 2904-2912.	1.3	61
120	Reduction of Cr(VI) by peat and coal humic substances. <i>Environmental Chemistry Letters</i> , 2004, 2, 141-145.	8.3	61
121	Phenotypic Switching in <i>Pseudomonas brassicacearum</i> Involves GacS- and GacA-Dependent Rsm Small RNAs. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1658-1665.	1.4	61
122	<i>Arabidopsis</i> ENHANCED DISEASE SUSCEPTIBILITY1 promotes systemic acquired resistance via azelaic acid and its precursor 9-oxo nonanoic acid. <i>Journal of Experimental Botany</i> , 2014, 65, 5919-5931.	2.4	60
123	Exploring the <i>Arabidopsis</i> sulfur metabolome. <i>Plant Journal</i> , 2014, 77, 31-45.	2.8	60
124	Influence of the UV/H ₂ O ₂ Advanced Oxidation Process on Dissolved Organic Matter and the Connection between Elemental Composition and Disinfection Byproduct Formation. <i>Environmental Science & Technology</i> , 2020, 54, 14964-14973.	4.6	60
125	Pollen metabolome analysis reveals adenosine as a major regulator of dendritic cell-primed TH cell responses. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 127, 454-461.e9.	1.5	59
126	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	0.7	59

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127	Depth-dependent photodegradation of marine dissolved organic matter. <i>Frontiers in Marine Science</i> , 2015, 2, .	1.2	59
128	2-Furoylglycine as a Candidate Biomarker of Coffee Consumption. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8615-8621.	2.4	59
129	Insulin Sensitivity Is Reflected by Characteristic Metabolic Fingerprints - A Fourier Transform Mass Spectrometric Non-Targeted Metabolomics Approach. <i>PLoS ONE</i> , 2010, 5, e13317.	1.1	58
130	Amines in the Environment. <i>Critical Reviews in Analytical Chemistry</i> , 2010, 40, 102-121.	1.8	58
131	Sulfites and the wine metabolome. <i>Food Chemistry</i> , 2017, 237, 106-113.	4.2	58
132	Mechanisms of Humic Acids Degradation by White Rot Fungi Explored Using ¹ H NMR Spectroscopy and FTICR Mass Spectrometry. <i>Environmental Science & Technology</i> , 2011, 45, 2748-2754.	4.6	57
133	Influence of cell-cell contact between <i>L. thermotolerans</i> and <i>S. cerevisiae</i> on yeast interactions and the exo-metabolome. <i>Food Microbiology</i> , 2019, 83, 122-133.	2.1	57
134	Autoinducers Act as Biological Timers in <i>Vibrio harveyi</i> . <i>PLoS ONE</i> , 2012, 7, e48310.	1.1	57
135	Two new major subunits in the cellulosome of <i>Clostridium thermocellum</i> : xyloglucanase Xgh74A and endoxylanase Xyn10D. <i>Microbiology (United Kingdom)</i> , 2005, 151, 3395-3401.	0.7	56
136	Response of sulfate-reducing bacteria to an artificial oil spill in a coastal marine sediment. <i>Environmental Microbiology</i> , 2011, 13, 1488-1499.	1.8	55
137	Geochemistry of Dissolved Organic Matter in a Spatially Highly Resolved Groundwater Petroleum Hydrocarbon Plume Cross-Section. <i>Environmental Science & Technology</i> , 2016, 50, 5536-5546.	4.6	55
138	High reactivity of deep biota under anthropogenic CO ₂ injection into basalt. <i>Nature Communications</i> , 2017, 8, 1063.	5.8	55
139	The chemodiversity of algal dissolved organic matter from lysed <i>Microcystis aeruginosa</i> cells and its ability to form disinfection by-products during chlorination. <i>Water Research</i> , 2019, 155, 300-309.	5.3	55
140	Distribution, abundance and diversity of the extremely halophilic bacterium <i>Salinibacter ruber</i> . <i>Saline Systems</i> , 2008, 4, 15.	2.0	54
141	Chemodiversity of dissolved organic matter in the Amazon Basin. <i>Biogeosciences</i> , 2016, 13, 4279-4290.	1.3	53
142	A new approach for evaluating transformations of dissolved organic matter (DOM) via high-resolution mass spectrometry and relating it to bacterial activity. <i>Water Research</i> , 2017, 123, 513-523.	5.3	52
143	Relationships between drought, heat and air humidity responses revealed by transcriptome-metabolome co-analysis. <i>BMC Plant Biology</i> , 2017, 17, 120.	1.6	52
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