

AndrÃ© J Simpson

List of Publications by Year in descending order

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Version: 2024-02-01

216
papers

11,126
citations

32410

55
h-index

48101

92
g-index

222
all docs

222
docs citations

222
times ranked

10382
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of double-tuned single-sided planar microcoils for the analysis of small ¹³ C enriched biological samples using ¹ H- ¹³ C 2D heteronuclear correlation NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 386-397.	1.1	6
2	NMR spectroscopy of a single mammalian early stage embryo. <i>Journal of Magnetic Resonance</i> , 2022, 335, 107142.	1.2	7
3	Applications of nuclear magnetic resonance for the study of soils. , 2022, , .		1
4	DREAMTIME NMR Spectroscopy: Targeted Multi-Compound Selection with Improved Detection Limits. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
5	Coastal fisheries resource monitoring through A deep learning-based underwater video analysis. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 269, 107815.	0.9	13
6	Comparing the Potential of Helmholtz and Planar NMR Microcoils for Analysis of Intact Biological Samples. <i>Analytical Chemistry</i> , 2022, 94, 8523-8532.	3.2	7
7	Exploring the Applications of Carbon-Detected NMR in Living and Dead Organisms Using a ¹³ C-Optimized Comprehensive Multiphase NMR Probe. <i>Analytical Chemistry</i> , 2022, 94, 8756-8765.	3.2	8
8	A new perspective on the photocatalytic action of titanium dioxide on phenol elucidated using comprehensive multiphase NMR. <i>Nanoscale</i> , 2022, 14, 9869-9876.	2.8	3
9	A ubiquitous tire rubber-derived chemical induces acute mortality in coho salmon. <i>Science</i> , 2021, 371, 185-189.	6.0	504
10	Towards real-time kinetic monitoring of wastewater treatment: A case study of sunlight and ozone treatment of unconcentrated wastewater using flow NMR. <i>Chemical Engineering Journal</i> , 2021, 405, 126696.	6.6	10
11	Titrate over the Internet: An Open-Source Remote-Control Titration Unit for All Students. <i>Journal of Chemical Education</i> , 2021, 98, 1037-1042.	1.1	16
12	Expanding current applications and permitting the analysis of larger intact samples by means of a 7 mm CP-MR probe. <i>Analyst</i> , The, 2021, 146, 4461-4472.	1.7	6
13	Land-Use Change and Environmental Properties Alter the Quantity and Molecular Composition of Soil-Derived Dissolved Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1395-1406.	1.2	17
14	Comprehensive Multiphase NMR Probehead with Reduced Radiofrequency Heating Improves the Analysis of Living Organisms and Heat-Sensitive Samples. <i>Analytical Chemistry</i> , 2021, 93, 10326-10333.	3.2	7
15	Facile route to biomass-derived 1D carbon fiber supported high-performance MnO-based nanocomposite anode material. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00322.	1.7	4
16	Metabolomics Reveals That Bisphenol Pollutants Impair Protein Synthesis-Related Pathways in <i>Daphnia magna</i> . <i>Metabolites</i> , 2021, 11, 666.	1.3	9
17	NMR spectroscopy of wastewater: A review, case study, and future potential. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2021, 126-127, 121-180.	3.9	18
18	Which of the (Mixed) Halogenated n-Alkanes Are Likely To Be Persistent Organic Pollutants?. <i>Environmental Science & Technology</i> , 2021, 55, 15912-15920.	4.6	16

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19	Nontargeted Screening Using Gas Chromatography-Atmospheric Pressure Ionization Mass Spectrometry: Recent Trends and Emerging Potential. <i>Molecules</i> , 2021, 26, 6911.	1.7	13
20	Flow-based <i>in vivo</i> NMR spectroscopy of small aquatic organisms. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 411-426.	1.1	12
21	<i>In vivo</i> comprehensive multiphase NMR. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 427-444.	1.1	19
22	Exploring the interactions of iron and zinc with the microtubule binding repeats R1 and R4. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110987.	1.5	15
23	Long-Term Nitrogen Addition Alters the Composition of Soil-Derived Dissolved Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 189-201.	1.2	25
24	Direct Conversion of McDonald's Waste Cooking Oil into a Biodegradable High-Resolution 3D-Printing Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1171-1177.	3.2	42
25	Inverse or direct detect experiments and probes: Which are "best" for <i>in vivo</i> NMR research of ¹³ C enriched organisms?. <i>Analytica Chimica Acta</i> , 2020, 1138, 168-180.	2.6	18
26	NMR assignment of the <i>in vivo</i> daphnia magna metabolome. <i>Analyst, The</i> , 2020, 145, 5787-5800.	1.7	26
27	Comprehensive Multiphase NMR - A Powerful Tool to Understand and Monitor Molecular Processes during Biofuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17551-17564.	3.2	10
28	5-Axis CNC Micromilling for Rapid, Cheap, and Background-Free NMR Microcoils. <i>Analytical Chemistry</i> , 2020, 92, 15454-15462.	3.2	13
29	Exploring the Maker Culture in Chemistry: Making an Affordable Thermal Imaging System for Reaction Visualization. <i>Journal of Chemical Education</i> , 2020, 97, 3887-3891.	1.1	6
30	Chlorines Are Not Evenly Substituted in Chlorinated Paraffins: A Predicted NMR Pattern Matching Framework for Isomeric Discrimination in Complex Contaminant Mixtures. <i>Environmental Science and Technology Letters</i> , 2020, 7, 496-503.	3.9	23
31	Aqueous Photoreactions of Wood Smoke Brown Carbon. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1149-1160.	1.2	39
32	Optimization of an MMPB Lemieux Oxidation method for the quantitative analysis of microcystins in fish tissue by LC-QTOF MS. <i>Science of the Total Environment</i> , 2020, 737, 140209.	3.9	16
33	Targeting the Lowest Concentration of a Toxin That Induces a Detectable Metabolic Response in Living Organisms: Time-Resolved <i>In Vivo</i> 2D NMR during a Concentration Ramp. <i>Analytical Chemistry</i> , 2020, 92, 9856-9865.	3.2	10
34	Evidence for substantial acetate presence in cutaneous earthworm mucus. <i>Journal of Soils and Sediments</i> , 2020, 20, 3627-3632.	1.5	3
35	<i>Ex Vivo</i> Comprehensive Multiphase NMR of whole organisms: A complementary tool to <i>in vivo</i> NMR. <i>Analytica Chimica Acta: X</i> , 2020, 6, 100051.	2.8	16
36	CASE (Computer-Assisted Structure Elucidation) Study for an Undergraduate Organic Chemistry Class. <i>Journal of Chemical Education</i> , 2020, 97, 855-860.	1.1	15

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37	Unraveling Mechanisms behind Biomassâ€“Clay Interactions Using Comprehensive Multiphase Nuclear Magnetic Resonance (NMR) Spectroscopy. ACS Earth and Space Chemistry, 2020, 4, 2061-2072.	1.2	18
38	Metabolic profiling of Daphnia magna exposure to a mixture of hydrophobic organic contaminants in the presence of dissolved organic matter. Science of the Total Environment, 2019, 688, 1252-1262.	3.9	5
39	Rapid Chemical Reaction Monitoring by Digital Microfluidicsâ€“NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. Angewandte Chemie, 2019, 131, 15516-15520.	1.6	3
40	Facile Approach for Synthesizing High-Performance MnO/C Electrodes from Rice Husk. ACS Omega, 2019, 4, 18908-18917.	1.6	17
41	Understanding the Fate of Environmental Chemicals Inside Living Organisms: NMR-Based ¹³ C Isotopic Suppression Selects Only the Molecule of Interest within ¹³ C-Enriched Organisms. Analytical Chemistry, 2019, 91, 15000-15008.	3.2	16
42	Rapid Chemical Reaction Monitoring by Digital Microfluidicsâ€“NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. Angewandte Chemie - International Edition, 2019, 58, 15372-15376.	7.2	33
43	1D â€“Spikeletâ€“Projections from Heteronuclear 2D NMR Dataâ€“Permitting 1D Chemometrics While Preserving 2D Dispersion. Metabolites, 2019, 9, 16.	1.3	6
44	Digital microfluidics and nuclear magnetic resonance spectroscopy for <i>in situ</i> diffusion measurements and reaction monitoring. Lab on A Chip, 2019, 19, 641-653.	3.1	39
45	Selective Amino Acid-Only in Vivo NMR: A Powerful Tool To Follow Stress Processes. ACS Omega, 2019, 4, 9017-9028.	1.6	24
46	Comparison of metabolomic responses of earthworms to sub-lethal imidacloprid exposure in contact and soil tests. Environmental Science and Pollution Research, 2019, 26, 18846-18855.	2.7	22
47	Rethinking a Timeless Titration Experimental Setup through Automation and Open-Source Robotic Technology: Making Titration Accessible for Students of All Abilities. Journal of Chemical Education, 2019, 96, 1497-1501.	1.1	13
48	Aggregation of Microtubule Binding Repeats of Tau Protein is Promoted by Cu ²⁺ . ACS Omega, 2019, 4, 5356-5366.	1.6	30
49	Metabolomic responses to pre-chlorinated and final effluent wastewater with the addition of a sub-lethal persistent contaminant in Daphnia magna. Environmental Science and Pollution Research, 2019, 26, 9014-9026.	2.7	21
50	The concentration of dissolved organic matter impacts the metabolic response in Daphnia magna exposed to 17 β -ethynylestradiol and perfluorooctane sulfonate. Ecotoxicology and Environmental Safety, 2019, 170, 468-478.	2.9	23
51	Assessing the potential of quantitative 2D HSQC NMR in ¹³ C enriched living organisms. Journal of Biomolecular NMR, 2019, 73, 31-42.	1.6	33
52	Improvements in lipid suppression for ¹ H NMRâ€“based metabolomics: Applications to solutionâ€“state and HRâ€“MAS NMR in natural and in vivo samples. Magnetic Resonance in Chemistry, 2019, 57, 69-81.	1.1	14
53	Focusing on â€“the importantâ€“through targeted NMR experiments: an example of selective ¹³ Câ€“ ¹² C bond detection in complex mixtures. Faraday Discussions, 2019, 218, 372-394.	1.6	10
54	Metabolic Profiling Using In Vivo High Field Flow NMR. Methods in Molecular Biology, 2019, 2037, 395-409.	0.4	9

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55	Strontium adsorption and desorption in wetlands: Role of organic matter functional groups and environmental implications. <i>Water Research</i> , 2018, 133, 27-36.	5.3	40
56	Differences in Riverine and Pond Water Dissolved Organic Matter Composition and Sources in Canadian High Arctic Watersheds Affected by Active Layer Detachments. <i>Environmental Science & Technology</i> , 2018, 52, 1062-1071.	4.6	31
57	Relationship between chemical composition and oxidative potential of secondary organic aerosol from polycyclic aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3987-4003.	1.9	72
58	Analysis of earthworm sublethal toxic responses to atrazine exposure using ¹ H nuclear magnetic resonance (NMR)-based metabolomics. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 473-480.	2.2	11
59	Environmental Nuclear Magnetic Resonance Spectroscopy: An Overview and a Primer. <i>Analytical Chemistry</i> , 2018, 90, 628-639.	3.2	53
60	In Vivo Ultraslow MAS ² H/ ¹³ C NMR Emphasizes Metabolites in Dynamic Flux. <i>ACS Omega</i> , 2018, 3, 17023-17035.	1.6	21
61	Investigation of <i>Daphnia magna</i> Sub-Lethal Exposure to Organophosphate Esters in the Presence of Dissolved Organic Matter Using ¹ H NMR-Based Metabolomics. <i>Metabolites</i> , 2018, 8, 34.	1.3	13
62	Combining the Maker Movement with Accessibility Needs in an Undergraduate Laboratory: A Cost-Effective Text-to-Speech Multipurpose, Universal Chemistry Sensor Hub (MUCSH) for Students with Disabilities. <i>Journal of Chemical Education</i> , 2018, 95, 2268-2272.	1.1	13
63	Nuclear Magnetic Resonance Analysis of Changes in Dissolved Organic Matter Composition with Successive Layering on Clay Mineral Surfaces. <i>Soil Systems</i> , 2018, 2, 8.	1.0	25
64	Reducing impacts of organism variability in metabolomics via time trajectory in vivo NMR. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1117-1123.	1.1	32
65	In-Vivo NMR Spectroscopy: A Powerful and Complimentary Tool for Understanding Environmental Toxicity. <i>Metabolites</i> , 2018, 8, 35.	1.3	67
66	Sublethal metabolic responses to contaminant mixture toxicity in <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2448-2457.	2.2	10
67	¹³ C quantification in heterogeneous multiphase natural samples by CMP-NMR using stepped decoupling. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7055-7065.	1.9	11
68	Evaluation of <i>Daphnia magna</i> metabolic responses to organic contaminant exposure with and without dissolved organic matter using ¹ H nuclear magnetic resonance (NMR)-based metabolomics. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 189-200.	2.9	19
69	Development and Application of a Low-Volume Flow System for Solution-State <i>in Vivo</i> NMR. <i>Analytical Chemistry</i> , 2018, 90, 7912-7921.	3.2	46
70	Analysis of DOM phototransformation using a looped NMR system integrated with a sunlight simulator. <i>Water Research</i> , 2017, 120, 64-76.	5.3	35
71	DESI-MS imaging and NMR spectroscopy to investigate the influence of biodiesel in the structure of commercial rubbers. <i>Talanta</i> , 2017, 173, 22-27.	2.9	8
72	In-Phase Ultra High-Resolution In Vivo NMR. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6324-6328.	7.2	35

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73	Carotenoids are the likely precursor of a significant fraction of marine dissolved organic matter. <i>Science Advances</i> , 2017, 3, e1602976.	4.7	56
74	Comprehensive Multiphase (CMP) NMR Monitoring of the Structural Changes and Molecular Flux Within a Growing Seed. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 6779-6788.	2.4	26
75	Towards single egg toxicity screening using microcoil NMR. <i>Analyst</i> , 2017, 142, 4812-4824.	1.7	29
76	Large perturbations in CO ₂ flux and subsequent chemosynthesis are induced in agricultural soil by the addition of elemental sulfur. <i>Scientific Reports</i> , 2017, 7, 4732.	1.6	8
77	Effective combined water and sideband suppression for low-speed tissue and in vivo MAS NMR. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5043-5055.	1.9	37
78	Metabolomic responses to sublethal contaminant exposure in neonate and adult <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 938-946.	2.2	48
79	Analysis of Sub-Lethal Toxicity of Perfluorooctane Sulfonate (PFOS) to <i>Daphnia magna</i> Using ¹ H Nuclear Magnetic Resonance-Based Metabolomics. <i>Metabolites</i> , 2017, 7, 15.	1.3	48
80	In ¹ H Phase Ultra High-Resolution In Vivo NMR. <i>Angewandte Chemie</i> , 2017, 129, 6421-6425.	1.6	3
81	Using <i>Daphnia</i> physiology to drive food web dynamics: A theoretical revisit of Lotka-Volterra models. <i>Ecological Informatics</i> , 2016, 35, 29-42.	2.3	11
82	From the environment to NMR: water suppression for whole samples in their native state. <i>Environmental Chemistry</i> , 2016, 13, 767.	0.7	19
83	Development of an in Situ NMR Photoreactor To Study Environmental Photochemistry. <i>Environmental Science & Technology</i> , 2016, 50, 5506-5516.	4.6	24
84	Identification of aquatically available carbon from algae through solution-state NMR of whole ¹³ C-labelled cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4357-4370.	1.9	40
85	Comprehensive multiphase NMR applied to a living organism. <i>Chemical Science</i> , 2016, 7, 4856-4866.	3.7	79
86	Interfacing digital microfluidics with high-field nuclear magnetic resonance spectroscopy. <i>Lab on a Chip</i> , 2016, 16, 4424-4435.	3.1	42
87	Biochar amendment and phosphorus fertilization altered forest soil microbial community and native soil organic matter molecular composition. <i>Biogeochemistry</i> , 2016, 130, 227-245.	1.7	36
88	Soil Organic Matter in Its Native State: Unravelling the Most Complex Biomaterial on Earth. <i>Environmental Science & Technology</i> , 2016, 50, 1670-1680.	4.6	77
89	¹ H NMR-based metabolomics of <i>Daphnia magna</i> responses after sub-lethal exposure to triclosan, carbamazepine and ibuprofen. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2016, 19, 199-210.	0.4	46
90	Metabolomics reveals energetic impairments in <i>Daphnia magna</i> exposed to diazinon, malathion and bisphenol-A. <i>Aquatic Toxicology</i> , 2016, 170, 175-186.	1.9	73

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91	A nuclear magnetic resonance study of the dynamics of organofluorine interactions with a dissolved humic acid. <i>Chemosphere</i> , 2016, 145, 307-313.	4.2	9
92	Long-term doubling of litter inputs accelerates soil organic matter degradation and reduces soil carbon stocks. <i>Biogeochemistry</i> , 2016, 127, 1-14.	1.7	71
93	Comprehensive multiphase NMR spectroscopy: A new analytical method to study the effect of biodiesel blends on the structure of commercial rubbers. <i>Fuel</i> , 2016, 166, 436-445.	3.4	25
94	<i>In vivo</i> NMR spectroscopy: toward real time monitoring of environmental stress. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 774-779.	1.1	53
95	Comprehensive multiphase NMR: a promising technology to study plants in their native state. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 735-744.	1.1	33
96	Development of an NMR microprobe procedure for high-throughput environmental metabolomics of <i>Daphnia magna</i> . <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 745-753.	1.1	41
97	Analysis of <i>Eisenia fetida</i> earthworm responses to sub-lethal C60 nanoparticle exposure using 1H-NMR based metabolomics. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 48-58.	2.9	47
98	An Oil Spill in a Tube: An Accessible Approach for Teaching Environmental NMR Spectroscopy. <i>Journal of Chemical Education</i> , 2015, 92, 693-697.	1.1	13
99	Characterization of natural organic matter in bentonite clays for potential use in deep geological repositories for used nuclear fuel. <i>Applied Geochemistry</i> , 2015, 54, 43-53.	1.4	26
100	Soil warming and nitrogen deposition alter soil organic matter composition at the molecular-level. <i>Biogeochemistry</i> , 2015, 123, 391-409.	1.7	73
101	Refractory dissolved organic nitrogen accumulation in high-elevation lakes. <i>Nature Communications</i> , 2015, 6, 6347.	5.8	42
102	Metabolomic Differentiation of Nutritional Stress in an Aquatic Invertebrate. <i>Physiological and Biochemical Zoology</i> , 2015, 88, 43-52.	0.6	43
103	A ratiometric NMR pH sensing strategy based on a slow-proton-exchange (SPE) mechanism. <i>Chemical Science</i> , 2015, 6, 6305-6311.	3.7	10
104	Characterisation of oil contaminated soils by comprehensive multiphase NMR spectroscopy. <i>Environmental Chemistry</i> , 2015, 12, 227.	0.7	16
105	From Spill to Sequestration: The Molecular Journey of Contamination via Comprehensive Multiphase NMR. <i>Environmental Science & Technology</i> , 2015, 49, 13983-13991.	4.6	33
106	Shifts in microbial community and water-extractable organic matter composition with biochar amendment in a temperate forest soil. <i>Soil Biology and Biochemistry</i> , 2015, 81, 244-254.	4.2	192
107	Perspective: <i>in vivo</i> NMR – a potentially powerful tool for environmental research. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 686-690.	1.1	25
108	Photochemistry of marine and fresh waters: A role for copper-dissolved organic matter ligands. <i>Marine Chemistry</i> , 2014, 162, 77-88.	0.9	15

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109	Accumulation of aliphatic compounds in soil with increasing mean annual temperature. <i>Organic Geochemistry</i> , 2014, 76, 118-127.	0.9	61
110	Comprehensive Multiphase NMR Spectroscopy of Intact ¹³ C-Labeled Seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 107-115.	2.4	38
111	Analysis of soil organic matter at the solid-water interface by nuclear magnetic resonance spectroscopy. <i>Environmental Chemistry</i> , 2014, 11, 472.	0.7	16
112	Biomarkers reveal the effects of hydrography on the sources and fate of marine and terrestrial organic matter in the western Irish Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 136, 157-171.	0.9	27
113	¹ H NMR-based metabolomic analysis of polar and non-polar earthworm metabolites after sub-lethal exposure to phenanthrene. <i>Metabolomics</i> , 2013, 9, 44-56.	1.4	37
114	Molecular characterization of organic matter in Canadian Arctic paleosols for paleoecological applications. <i>Organic Geochemistry</i> , 2013, 63, 122-138.	0.9	10
115	The pH-dependence of organofluorine binding domain preference in dissolved humic acid. <i>Chemosphere</i> , 2013, 90, 270-275.	4.2	24
116	Rapid parameter optimization of low signal-to-noise samples in NMR spectroscopy using rapid CPMG pulsing during acquisition: application to recycle delays. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 129-135.	1.1	11
117	Rapid estimation of nuclear magnetic resonance experiment time in low-concentration environmental samples. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 129-136.	2.2	10
118	1-D and 2-D NMR-based metabolomics of earthworms exposed to endosulfan and endosulfan sulfate in soil. <i>Environmental Pollution</i> , 2013, 175, 35-44.	3.7	48
119	Comparison of cryoconite organic matter composition from Arctic and Antarctic glaciers at the molecular-level. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 1-18.	1.6	33
120	Molecular level analysis of long term vegetative shifts and relationships to soil organic matter composition. <i>Organic Geochemistry</i> , 2013, 62, 7-16.	0.9	29
121	Photochemistry of excited-state species in natural waters: A role for particulate organic matter. <i>Water Research</i> , 2013, 47, 5189-5199.	5.3	46
122	Comparison of soil organic matter composition after incubation with maize leaves, roots, and stems. <i>Geoderma</i> , 2013, 192, 86-96.	2.3	50
123	An enhanced capillary electrophoresis method for characterizing natural organic matter. <i>Analyst</i> , 2013, 138, 1174.	1.7	5
124	¹ H NMR-based metabolomics investigation of <i>Daphnia magna</i> responses to sub-lethal exposure to arsenic, copper and lithium. <i>Chemosphere</i> , 2013, 93, 331-337.	4.2	78
125	Tracking the Fate of Microbially Sequestered Carbon Dioxide in Soil Organic Matter. <i>Environmental Science & Technology</i> , 2013, 47, 5128-5137.	4.6	31
126	Physical, chemical, and biochemical mechanisms of soil organic matter stabilization under conservation tillage systems: A central role for microbes and microbial by-products in C sequestration. <i>Soil Biology and Biochemistry</i> , 2013, 57, 124-134.	4.2	197

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127	Unraveling the long-term stabilization mechanisms of organic materials in soils by physical fractionation and NMR spectroscopy. <i>Agriculture, Ecosystems and Environment</i> , 2013, 171, 9-18.	2.5	87
128	Formation of aqueous-phase $\dot{\text{I}}\pm$ -hydroxyhydroperoxides ($\dot{\text{I}}\pm$ -HHP): potential atmospheric impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5857-5872.	1.9	60
129	Solution-state NMR investigation of the sorptive fractionation of dissolved organic matter by alkaline mineral soils. <i>Environmental Chemistry</i> , 2013, 10, 333.	0.7	32
130	^1H NMR-Based Metabolomic Analysis of Sub-Lethal Perfluorooctane Sulfonate Exposure to the Earthworm, <i>Eisenia fetida</i> , in Soil. <i>Metabolites</i> , 2013, 3, 718-740.	1.3	29
131	HR-MAS NMR Spectroscopy: A Practical Guide for Natural Samples. <i>Current Organic Chemistry</i> , 2013, 17, 3013-3031.	0.9	44
132	Comparison of nuclear magnetic resonance methods for the analysis of organic matter composition from soil density and particle fractions. <i>Environmental Chemistry</i> , 2012, 9, 97.	0.7	51
133	Geophysical and geochemical survey of a large marine pockmark on the Malin Shelf, Ireland. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	13
134	Comprehensive multiphase NMR spectroscopy: Basic experimental approaches to differentiate phases in heterogeneous samples. <i>Journal of Magnetic Resonance</i> , 2012, 217, 61-76.	1.2	92
135	Molecular Characterization of Dissolved Organic Matter in Glacial Ice: Coupling Natural Abundance ^1H NMR and Fluorescence Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 3753-3761.	4.6	61
136	Nuclear Magnetic Resonance Spectroscopy and Its Key Role in Environmental Research. <i>Environmental Science & Technology</i> , 2012, 46, 11488-11496.	4.6	108
137	Earthworm metabolomic responses after exposure to aged PCB contaminated soils. <i>Ecotoxicology</i> , 2012, 21, 1947-1956.	1.1	23
138	Tailoring ^1H Spin Dynamics in Small Molecules via Supercooled Water: A Promising Approach for Metabolite Identification and Validation. <i>Analytical Chemistry</i> , 2012, 84, 6759-6766.	3.2	10
139	In-Situ Molecular-Level Elucidation of Organofluorine Binding Sites in a Whole Peat Soil. <i>Environmental Science & Technology</i> , 2012, 46, 10508-10513.	4.6	23
140	Oxidized sterols as a significant component of dissolved organic matter: Evidence from 2D HPLC in combination with 2D and 3D NMR spectroscopy. <i>Water Research</i> , 2012, 46, 3398-3408.	5.3	52
141	Earthworm Sublethal Responses to Titanium Dioxide Nanomaterial in Soil Detected by ^1H NMR Metabolomics. <i>Environmental Science & Technology</i> , 2012, 46, 1111-1118.	4.6	84
142	Coelomic fluid: a complimentary biological medium to assess sub-lethal endosulfan exposure using ^1H NMR-based earthworm metabolomics. <i>Ecotoxicology</i> , 2012, 21, 1301-1313.	1.1	33
143	The Chemical Ecology of Soil Organic Matter Molecular Constituents. <i>Journal of Chemical Ecology</i> , 2012, 38, 768-784.	0.9	116
144	Detection and Structural Identification of Dissolved Organic Matter in Antarctic Glacial Ice at Natural Abundance by SPR-W5-WATERGATE ^1H NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2011, 45, 4710-4717.	4.6	47

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145	HILIC-NMR: Toward the Identification of Individual Molecular Components in Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2011, 45, 3880-3886.	4.6	112
146	Response to Comment on "HILIC-NMR: Toward the Identification of Individual Molecular Components in Dissolved Organic Matter". <i>Environmental Science & Technology</i> , 2011, 45, 5910-5910.	4.6	3
147	The degradation characteristics of microbial biomass in soil. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2571-2581.	1.6	46
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