

AndrÃ© J Simpson

List of Publications by Year in descending order

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216
papers

11,126
citations

28274

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42399

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all docs

222
docs citations

222
times ranked

9221
citing authors

#	ARTICLE	IF	CITATIONS
1	A ubiquitous tire rubber-derived chemical induces acute mortality in coho salmon. <i>Science</i> , 2021, 371, 185-189.	12.6	504
2	Microbially Derived Inputs to Soil Organic Matter: Are Current Estimates Too Low?. <i>Environmental Science & Technology</i> , 2007, 41, 8070-8076.	10.0	417
3	Humic Substances in Soils: Are They Really Chemically Distinct?. <i>Environmental Science & Technology</i> , 2006, 40, 4605-4611.	10.0	319
4	Chemical and mineralogical controls on humic acid sorption to clay mineral surfaces. <i>Organic Geochemistry</i> , 2005, 36, 1553-1566.	1.8	291
5	NMR spectroscopy in environmental research: From molecular interactions to global processes. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2011, 58, 97-175.	7.5	252
6	Molecular structures and associations of humic substances in the terrestrial environment. <i>Die Naturwissenschaften</i> , 2002, 89, 84-88.	1.6	229
7	Major Structural Components in Freshwater Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2007, 41, 8240-8247.	10.0	223
8	Increased cuticular carbon sequestration and lignin oxidation in response to soil warming. <i>Nature Geoscience</i> , 2008, 1, 836-839.	12.9	219
9	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.	8.8	197
10	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.	8.8	192
11	Purge NMR: Effective and easy solvent suppression. <i>Journal of Magnetic Resonance</i> , 2005, 175, 340-346.	2.1	189
12	Determining the molecular weight, aggregation, structures and interactions of natural organic matter using diffusion ordered spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2002, 40, S72-S82.	1.9	177
13	Cross-Coupling of Sulfonamide Antimicrobial Agents with Model Humic Constituents. <i>Environmental Science & Technology</i> , 2005, 39, 4463-4473.	10.0	163
14	Unraveling the Structural Components of Soil Humin by Use of Solution-State Nuclear Magnetic Resonance Spectroscopy. <i>Environmental Science & Technology</i> , 2007, 41, 876-883.	10.0	163
15	High resolution electrospray ionization mass spectrometry and 2D solution NMR for the analysis of DOM extracted by C18 solid phase disk. <i>Organic Geochemistry</i> , 2003, 34, 1325-1335.	1.8	141
16	Direct ¹ H NMR spectroscopy of dissolved organic matter in natural waters. <i>Analyst</i> , 2008, 133, 263-269.	3.5	122
17	The Chemical Ecology of Soil Organic Matter Molecular Constituents. <i>Journal of Chemical Ecology</i> , 2012, 38, 768-784.	1.8	116
18	The Application of ¹ H HR-MAS NMR Spectroscopy for the Study of Structures and Associations of Organic Components at the Solid-Aqueous Interface of a Whole Soil. <i>Environmental Science & Technology</i> , 2001, 35, 3321-3325.	10.0	112

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19	HILIC-NMR: Toward the Identification of Individual Molecular Components in Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2011, 45, 3880-3886.	10.0	112
20	Evidence for cross-linking in tomato cutin using HR-MAS NMR spectroscopy. <i>Phytochemistry</i> , 2003, 64, 1163-1170.	2.9	110
21	Nuclear Magnetic Resonance Spectroscopy and Its Key Role in Environmental Research. <i>Environmental Science & Technology</i> , 2012, 46, 11488-11496.	10.0	108
22	Altered microbial community structure and organic matter composition under elevated CO ₂ and N fertilization in the duke forest. <i>Global Change Biology</i> , 2010, 16, 2104-2116.	9.5	106
23	The Identification of Plant Derived Structures in Humic Materials Using Three-Dimensional NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2003, 37, 337-342.	10.0	105
24	Insights into the structure of cutin and cutan from <i>Agave americana</i> leaf cuticle using HRMAS NMR spectroscopy. <i>Organic Geochemistry</i> , 2005, 36, 1072-1085.	1.8	102
25	Assessing the fate and transformation of plant residues in the terrestrial environment using HR-MAS NMR spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4080-4094.	3.9	102
26	Investigating the Role of Mineral-Bound Humic Acid in Phenanthrene Sorption. <i>Environmental Science & Technology</i> , 2006, 40, 3260-3266.	10.0	101
27	Chemical composition of surface films on glass windows and implications for atmospheric chemistry. <i>Atmospheric Environment</i> , 2005, 39, 6578-6586.	4.1	98
28	3-D Structural Modeling of Humic Acids through Experimental Characterization, Computer Assisted Structure Elucidation and Atomistic Simulations. 1. Chelsea Soil Humic Acid. <i>Environmental Science & Technology</i> , 2003, 37, 1783-1793.	10.0	94
29	¹ H NMR and GC/MS metabolomics of earthworm responses to sub-lethal DDT and endosulfan exposure. <i>Metabolomics</i> , 2009, 5, 84-94.	3.0	93
30	Interactions of Poly(amidoamine) Dendrimers with Human Serum Albumin: Binding Constants and Mechanisms. <i>ACS Nano</i> , 2011, 5, 3456-3468.	14.6	92
31	Comprehensive multiphase NMR spectroscopy: Basic experimental approaches to differentiate phases in heterogeneous samples. <i>Journal of Magnetic Resonance</i> , 2012, 217, 61-76.	2.1	92
32	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.	5.3	87
33	Earthworm Sublethal Responses to Titanium Dioxide Nanomaterial in Soil Detected by ¹ H NMR Metabolomics. <i>Environmental Science & Technology</i> , 2012, 46, 1111-1118.	10.0	84
34	Sequential exhaustive extraction of a Mollisol soil, and characterizations of humic components, including humin, by solid and solution state NMR. <i>European Journal of Soil Science</i> , 2008, 59, 505-516.	3.9	81
35	MULTIDIMENSIONAL SOLUTION STATE NMR OF HUMIC SUBSTANCES: A PRACTICAL GUIDE AND REVIEW. <i>Soil Science</i> , 2001, 166, 795-809.	0.9	80
36	Arctic Permafrost Active Layer Detachments Stimulate Microbial Activity and Degradation of Soil Organic Matter. <i>Environmental Science & Technology</i> , 2010, 44, 4076-4082.	10.0	79

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37	Comprehensive multiphase NMR applied to a living organism. <i>Chemical Science</i> , 2016, 7, 4856-4866.	7.4	79
38	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.	8.2	78
39	Soil Organic Matter in Its Native State: Unravelling the Most Complex Biomaterial on Earth. <i>Environmental Science & Technology</i> , 2016, 50, 1670-1680.	10.0	77
40	Determining the molecular interactions of perfluorinated carboxylic acids with human sera and isolated human serum albumin using nuclear magnetic resonance spectroscopy. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 1678-1688.	4.3	74
41	EVALUATION OF SAMPLE PREPARATION METHODS FOR NUCLEAR MAGNETIC RESONANCE METABOLIC PROFILING STUDIES WITH <i>EISENIA FETIDA</i> . <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 828.	4.3	73
42	Association of specific organic matter compounds in size fractions of soils under different environmental controls. <i>Organic Geochemistry</i> , 2011, 42, 1169-1180.	1.8	73
43	Soil warming and nitrogen deposition alter soil organic matter composition at the molecular-level. <i>Biogeochemistry</i> , 2015, 123, 391-409.	3.5	73
44	Metabolomics reveals energetic impairments in <i>Daphnia magna</i> exposed to diazinon, malathion and bisphenol-A. <i>Aquatic Toxicology</i> , 2016, 170, 175-186.	4.0	73
45	Solid-State and Multidimensional Solution-State NMR of Solid Phase Extracted and Ultrafiltered Riverine Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2003, 37, 2929-2935.	10.0	72
46	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.	4.9	72
47	The application of LC-NMR and LC-SPE-NMR to compositional studies of natural organic matter. <i>Analyst</i> , 2004, 129, 1216.	3.5	71
48	Long-term doubling of litter inputs accelerates soil organic matter degradation and reduces soil carbon stocks. <i>Biogeochemistry</i> , 2016, 127, 1-14.	3.5	71
49	Separation of Structural Components in Soil Organic Matter by Diffusion Ordered Spectroscopy. <i>Environmental Science & Technology</i> , 2001, 35, 4421-4425.	10.0	70
50	In-Vivo NMR Spectroscopy: A Powerful and Complimentary Tool for Understanding Environmental Toxicity. <i>Metabolites</i> , 2018, 8, 35.	2.9	67
51	Assessing the organic composition of urban surface films using nuclear magnetic resonance spectroscopy. <i>Chemosphere</i> , 2006, 63, 142-152.	8.2	65
52	The Application of ¹ H High-Resolution Magic-Angle Spinning NMR for the Study of Clay-Organic Associations in Natural and Synthetic Complexes. <i>Langmuir</i> , 2006, 22, 4498-4503.	3.5	64
53	Molecular Characterization of Dissolved Organic Matter in Glacial Ice: Coupling Natural Abundance ¹ H NMR and Fluorescence Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 3753-3761.	10.0	61
54	Accumulation of aliphatic compounds in soil with increasing mean annual temperature. <i>Organic Geochemistry</i> , 2014, 76, 118-127.	1.8	61

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55	New insights on the structure of algaenan from <i>Botryococcus braunii</i> race A and its hexane insoluble botryals based on multidimensional NMR spectroscopy and electrospray mass spectrometry techniques. <i>Phytochemistry</i> , 2003, 62, 783-796.	2.9	60
56	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.	4.9	60
57	Application of Saturation Transfer Double Difference NMR to Elucidate the Mechanistic Interactions of Pesticides with Humic Acid. <i>Environmental Science & Technology</i> , 2008, 42, 1084-1090.	10.0	58
58	Carotenoids are the likely precursor of a significant fraction of marine dissolved organic matter. <i>Science Advances</i> , 2017, 3, e1602976.	10.3	56
59	The role of biodegradation and photo-oxidation in the transformation of terrigenous organic matter. <i>Organic Geochemistry</i> , 2011, 42, 262-274.	1.8	55
60	<i>In vivo</i> NMR spectroscopy: toward real time monitoring of environmental stress. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 774-779.	1.9	53
61	Environmental Nuclear Magnetic Resonance Spectroscopy: An Overview and a Primer. <i>Analytical Chemistry</i> , 2018, 90, 628-639.	6.5	53
62	Online High-Performance Size Exclusion Chromatography Nuclear Magnetic Resonance for the Characterization of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2010, 44, 624-630.	10.0	52
63	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.	11.3	52
64	THE APPLICATION OF MULTIDIMENSIONAL NMR TO THE STUDY OF SOIL HUMIC SUBSTANCES. <i>Soil Science</i> , 2000, 165, 483-494.	0.9	52
65	Isolation and fractionation of soil humin using alkaline urea and dimethylsulphoxide plus sulphuric acid. <i>Die Naturwissenschaften</i> , 2011, 98, 7-13.	1.6	51
66	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.	1.5	51
67	Identifying residues in natural organic matter through spectral prediction and pattern matching of 2D NMR datasets. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 14-22.	1.9	50
68	Comparison of soil organic matter composition after incubation with maize leaves, roots, and stems. <i>Geoderma</i> , 2013, 192, 86-96.	5.1	50
69	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.	7.5	48
70	Metabolomic responses to sublethal contaminant exposure in neonate and adult <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 938-946.	4.3	48
71	Analysis of Sub-Lethal Toxicity of Perfluorooctane Sulfonate (PFOS) to <i>Daphnia magna</i> Using ^1H Nuclear Magnetic Resonance-Based Metabolomics. <i>Metabolites</i> , 2017, 7, 15.	2.9	48
72	Interpretation of heteronuclear and multidimensional NMR spectroscopy of humic substances. <i>European Journal of Soil Science</i> , 2001, 52, 495-509.	3.9	47

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73	Detection and Structural Identification of Dissolved Organic Matter in Antarctic Glacial Ice at Natural Abundance by SPR-W5-WATERGATE ¹ H NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2011, 45, 4710-4717.	10.0	47
74	Analysis of <i>Eisenia fetida</i> earthworm responses to sub-lethal C60 nanoparticle exposure using ¹ H-NMR based metabolomics. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 48-58.	6.0	47
75	The degradation characteristics of microbial biomass in soil. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2571-2581.	3.9	46
76	Photochemistry of excited-state species in natural waters: A role for particulate organic matter. <i>Water Research</i> , 2013, 47, 5189-5199.	11.3	46
77	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.	1.0	46
78	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.	6.5	46
79	¹ H NMR-based metabolomics of time-dependent responses of <i>Eisenia fetida</i> to sub-lethal phenanthrene exposure. <i>Environmental Pollution</i> , 2011, 159, 2845-2851.	7.5	45
80	HR-MAS NMR Spectroscopy: A Practical Guide for Natural Samples. <i>Current Organic Chemistry</i> , 2013, 17, 3013-3031.	1.6	44
81	Metabolomic Differentiation of Nutritional Stress in an Aquatic Invertebrate. <i>Physiological and Biochemical Zoology</i> , 2015, 88, 43-52.	1.5	43
82	Evidence for the enhanced lability of dissolved organic matter following permafrost slope disturbance in the Canadian High Arctic. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7226-7241.	3.9	42
83	Refractory dissolved organic nitrogen accumulation in high-elevation lakes. <i>Nature Communications</i> , 2015, 6, 6347.	12.8	42
84	Interfacing digital microfluidics with high-field nuclear magnetic resonance spectroscopy. <i>Lab on A Chip</i> , 2016, 16, 4424-4435.	6.0	42
85	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.	6.7	42
86	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.	1.9	41
87	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.	3.7	40
88	Strontium adsorption and desorption in wetlands: Role of organic matter functional groups and environmental implications. <i>Water Research</i> , 2018, 133, 27-36.	11.3	40
89	¹ H NMR metabolomics of earthworm responses to polychlorinated biphenyl (PCB) exposure in soil. <i>Ecotoxicology</i> , 2011, 20, 836-846.	2.4	39
90	Digital microfluidics and nuclear magnetic resonance spectroscopy for <i>in situ</i> diffusion measurements and reaction monitoring. <i>Lab on A Chip</i> , 2019, 19, 641-653.	6.0	39

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91	Aqueous Photoreactions of Wood Smoke Brown Carbon. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1149-1160.	2.7	39
92	Identifying Components in Dissolved Humic Acid That Bind Organofluorine Contaminants using $^1\text{H}\{^{19}\text{F}\}$ Reverse Heteronuclear Saturation Transfer Difference NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2010, 44, 5476-5482.	10.0	38
93	Comprehensive Multiphase NMR Spectroscopy of Intact ^{13}C -Labeled Seeds. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 107-115.	5.2	38
94	Molecular Interactions of Pesticides at the Soil-Water Interface. <i>Environmental Science & Technology</i> , 2008, 42, 5514-5520.	10.0	37
95	^1H NMR-based metabolomic analysis of polar and non-polar earthworm metabolites after sub-lethal exposure to phenanthrene. <i>Metabolomics</i> , 2013, 9, 44-56.	3.0	37
96	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.	3.7	37
97	Biochar amendment and phosphorus fertilization altered forest soil microbial community and native soil organic matter molecular composition. <i>Biogeochemistry</i> , 2016, 130, 227-245.	3.5	36
98	Metabolic responses of <i>Eisenia fetida</i> after sub-lethal exposure to organic contaminants with different toxic modes of action. <i>Environmental Pollution</i> , 2011, 159, 3620-3626.	7.5	35
99	Analysis of DOM phototransformation using a looped NMR system integrated with a sunlight simulator. <i>Water Research</i> , 2017, 120, 64-76.	11.3	35
100	In-Phase Ultra High-Resolution In Vivo NMR. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6324-6328.	13.8	35
101	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.	2.4	33
102	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.	3.9	33
103	Comprehensive multiphase NMR: a promising technology to study plants in their native state. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 735-744.	1.9	33
104	From Spill to Sequestration: The Molecular Journey of Contamination via Comprehensive Multiphase NMR. <i>Environmental Science & Technology</i> , 2015, 49, 13983-13991.	10.0	33
105	Rapid Chemical Reaction Monitoring by Digital Microfluidics-NMR: Proof of Principle Towards an Automated Synthetic Discovery Platform. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15372-15376.	13.8	33
106	Assessing the potential of quantitative 2D HSQC NMR in ^{13}C enriched living organisms. <i>Journal of Biomolecular NMR</i> , 2019, 73, 31-42.	2.8	33
107	Investigating aggregation in Suwannee River, USA, dissolved organic matter using diffusion-ordered nuclear magnetic resonance spectroscopy. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 931-939.	4.3	32
108	Sources and molecular composition of cryoconite organic matter from the Athabasca Glacier, Canadian Rocky Mountains. <i>Organic Geochemistry</i> , 2010, 41, 177-186.	1.8	32

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109	Comparison of 1-D and 2-D NMR techniques for screening earthworm responses to sub-lethal endosulfan exposure. <i>Environmental Chemistry</i> , 2010, 7, 524.	1.5	32
110	Solution-state NMR investigation of the sorptive fractionation of dissolved organic matter by alkaline mineral soils. <i>Environmental Chemistry</i> , 2013, 10, 333.	1.5	32
111	Reducing impacts of organism variability in metabolomics via time trajectory in vivo NMR. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1117-1123.	1.9	32
112	Tracking the Fate of Microbially Sequestered Carbon Dioxide in Soil Organic Matter. <i>Environmental Science & Technology</i> , 2013, 47, 5128-5137.	10.0	31
113	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.	10.0	31
114	Aggregation of Microtubule Binding Repeats of Tau Protein is Promoted by Cu ²⁺ . <i>ACS Omega</i> , 2019, 4, 5356-5366.	3.5	30
115	Natural variability and correlations in the metabolic profile of healthy <i>Eisenia fetida</i> earthworms observed using ¹ H NMR metabolomics. <i>Chemosphere</i> , 2011, 83, 1096-1101.	8.2	29
116	Molecular level analysis of long term vegetative shifts and relationships to soil organic matter composition. <i>Organic Geochemistry</i> , 2013, 62, 7-16.	1.8	29
117	¹ H 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.	2.9	29
118	Towards single egg toxicity screening using microcoil NMR. <i>Analyst, The</i> , 2017, 142, 4812-4824.	3.5	29
119	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.	2.1	27
120	Acid phosphatase interactions with organo-mineral complexes: influence on catalytic activity. <i>Biogeochemistry</i> , 2004, 71, 285-297.	3.5	26
121	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.	3.0	26
122	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.	5.2	26
123	NMR assignment of the <i>in vivo</i> daphnia magna metabolome. <i>Analyst, The</i> , 2020, 145, 5787-5800.	3.5	26
124	Perspective: <i>in vivo</i> NMR – a potentially powerful tool for environmental research. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 686-690.	1.9	25
125	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.	6.4	25
126	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.	2.6	25

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127	Long-Term Nitrogen Addition Alters the Composition of Soil-Derived Dissolved Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 189-201.	2.7	25
128	Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6485-6498.	3.9	24
129	The pH-dependence of organofluorine binding domain preference in dissolved humic acid. <i>Chemosphere</i> , 2013, 90, 270-275.	8.2	24
130	Development of an in Situ NMR Photoreactor To Study Environmental Photochemistry. <i>Environmental Science & Technology</i> , 2016, 50, 5506-5516.	10.0	24
131	Selective Amino Acid-Only in Vivo NMR: A Powerful Tool To Follow Stress Processes. <i>ACS Omega</i> , 2019, 4, 9017-9028.	3.5	24
132	Spectral Editing of Organic Mixtures into Pure Components Using NMR Spectroscopy and Ultraviscous Solvents. <i>Analytical Chemistry</i> , 2008, 80, 186-194.	6.5	23
133	Earthworm metabolomic responses after exposure to aged PCB contaminated soils. <i>Ecotoxicology</i> , 2012, 21, 1947-1956.	2.4	23
134	In-Situ Molecular-Level Elucidation of Organofluorine Binding Sites in a Whole Peat Soil. <i>Environmental Science & Technology</i> , 2012, 46, 10508-10513.	10.0	23
135	The concentration of dissolved organic matter impacts the metabolic response in <i>Daphnia magna</i> exposed to 17 α -ethynylestradiol and perfluorooctane sulfonate. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 468-478.	6.0	23
136	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.	8.7	23
137	The Role of Lipids on Sorption Characteristics of Freshwater- and Wastewater-Irrigated Soils. <i>Journal of Environmental Quality</i> , 2006, 35, 2154-2161.	2.0	22
138	Composition of dissolved organic matter within a lacustrine environment. <i>Environmental Chemistry</i> , 2011, 8, 146.	1.5	22
139	Comparison of metabolomic responses of earthworms to sub-lethal imidacloprid exposure in contact and soil tests. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18846-18855.	5.3	22
140	Passive Sampler for Dissolved Organic Matter in Freshwater Environments. <i>Analytical Chemistry</i> , 2006, 78, 8194-8199.	6.5	21
141	Understanding solution-state noncovalent interactions between xenobiotics and natural organic matter using ¹⁹ F/ ¹ H heteronuclear saturation transfer difference nuclear magnetic resonance spectroscopy. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1745-1753.	4.3	21
142	In Vivo Ultraslow MAS ² H/ ¹³ C NMR Emphasizes Metabolites in Dynamic Flux. <i>ACS Omega</i> , 2018, 3, 17023-17035.	3.5	21
143	Metabolomic responses to pre-chlorinated and final effluent wastewater with the addition of a sub-lethal persistent contaminant in <i>Daphnia magna</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 9014-9026.	5.3	21
144	Quantitative Site-Specific ² H NMR Investigation of MTBE: Potential for Assessing Contaminant Sources and Fate. <i>Environmental Science & Technology</i> , 2010, 44, 1062-1068.	10.0	19

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145	From the environment to NMR: water suppression for whole samples in their native state. <i>Environmental Chemistry</i> , 2016, 13, 767.	1.5	19
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