

# Gabriele E Schaumann

## List of Publications by Year in descending order

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144  
papers

6,952  
citations

76326

40  
h-index

64796

79  
g-index

151  
all docs

151  
docs citations

151  
times ranked

7814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural TiO <sub>2</sub> -Nanoparticles in Soils: A Review on Current and Potential Extraction Methods. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 735-755.	3.5	3
2	Are agricultural plastic covers a source of plastic debris in soil? A first screening study. <i>Soil</i> , 2022, 8, 31-47.	4.9	17
3	Fusarium Mycotoxins in Maize Field Soils: Method Validation and Implications for Sampling Strategy. <i>Toxins</i> , 2022, 14, 130.	3.4	5
4	Effects of Plastic versus Straw Mulching Systems on Soil Microbial Community Structure and Enzymes in Strawberry Cultivation. <i>Soil Systems</i> , 2022, 6, 21.	2.6	10
5	How does multiannual plastic mulching in strawberry cultivation influence soil fungi and mycotoxin occurrence in soil?. <i>Mycotoxin Research</i> , 2022, , 1.	2.3	0
6	The contribution of microbial activity to soil-water interactions and soil microstructural stability of a silty loam soil under moisture dynamics. <i>Geoderma</i> , 2022, 417, 115822.	5.1	6
7	Influential parameters of surface waters on the formation of coating on TiO <sub>2</sub> nanoparticles under natural conditions. <i>Environmental Science: Nano</i> , 2021, 8, 3153-3166.	4.3	1
8	Agricultural mulching and fungicides' impacts on fungal biomass, mycotoxin occurrence, and soil organic matter decomposition. <i>Environmental Science and Pollution Research</i> , 2021, 28, 36535-36550.	5.3	12
9	Toward Balancing the Pros and Cons of Spreading Olive Mill Wastewater in Irrigated Olive Orchards. <i>Processes</i> , 2021, 9, 780.	2.8	6
10	Flood Pulse Irrigation of Meadows Shapes Soil Chemical and Microbial Parameters More Than Mineral Fertilization. <i>Soil Systems</i> , 2021, 5, 24.	2.6	6
11	Validation of a Simple and Reliable Method for the Determination of Aflatoxins in Soil and Food Matrices. <i>ACS Omega</i> , 2021, 6, 18684-18693.	3.5	8
12	Multiannual soil mulching in agriculture: analysis of biogeochemical soil processes under plastic and straw mulches in a 3-year field study in strawberry cultivation. <i>Journal of Soils and Sediments</i> , 2021, 21, 3733-3752.	3.0	11
13	Distribution of engineered Ag nanoparticles in the aquatic-terrestrial transition zone: a long-term indoor floodplain mesocosm study. <i>Environmental Science: Nano</i> , 2021, 8, 1771-1785.	4.3	1
14	Validation of a field deployable reactor for <i>in situ</i> formation of NOM-engineered nanoparticle corona. <i>Environmental Science: Nano</i> , 2020, 7, 486-500.	4.3	5
15	Effect of matric potential and soil-water-hydrogel interactions on biohydrogel-induced soil microstructural stability. <i>Geoderma</i> , 2020, 362, 114142.	5.1	14
16	Influence of the physico-chemical properties of root mucilage and model substances on the microstructural stability of sand. <i>Biogeochemistry</i> , 2020, 147, 35-52.	3.5	18
17	Analysis of biogeochemical processes in plastic-covered soil during establishment period in strawberry cultivation. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	3
18	Morphology, structure, and composition of sulfidized silver nanoparticles and their aggregation dynamics in river water. <i>Science of the Total Environment</i> , 2020, 739, 139989.	8.0	20

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19	A new approach for repeated tip-sample relocation for AFM imaging of nano and micro sized particles and cells in liquid environment. <i>Ultramicroscopy</i> , 2020, 211, 112945.	1.9	9
20	A simple method for the selective quantification of polyethylene, polypropylene, and polystyrene plastic debris in soil by pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104803.	5.5	89
21	Effects of hydrophobicity-based fractions of Pony Lake fulvic acid on the colloidal stability and dissolution of oppositely charged surface-coated silver nanoparticles. <i>Environmental Chemistry</i> , 2020, 17, 400.	1.5	4
22	Spatiotemporal distribution of silver and silver-containing nanoparticles in a prealpine lake in relation to the discharge from a wastewater treatment plant. <i>Science of the Total Environment</i> , 2019, 696, 134034.	8.0	28
23	Potential of NMR relaxometry to unravel the properties of mucilage in several pore sizes. <i>Geoderma</i> , 2019, 340, 269-278.	5.1	7
24	Biodegradation and photooxidation of phenolic compounds in soil—A compound-specific stable isotope approach. <i>Chemosphere</i> , 2019, 230, 210-218.	8.2	13
25	Introducing a soil universal model method (SUMM) and its application for qualitative and quantitative determination of poly(ethylene), poly(styrene), poly(vinyl chloride) and poly(ethylene) Tj ETQq1 1 0.784314 rgB40 Overlock	1.7	10
26	Influence of water molecule bridges on sequestration of phenol in soil organic matter of sapric histosol. <i>Environmental Chemistry</i> , 2019, 16, 541.	1.5	3
27	Long-term irrigation with reclaimed wastewater: Implications on nutrient management, soil chemistry and olive ( <i>Olea europaea</i> L.) performance. <i>Agricultural Water Management</i> , 2019, 213, 324-335.	5.6	70
28	Gel formation mechanism and gel properties controlled by Ca <sup>2+</sup> in chia seed mucilage and model substances. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 92-103.	1.9	27
29	Considerations on cross-linking by bivalent cations in soil organic matter with low exchange capacity. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 441-452.	1.9	6
30	Determination of quantitative pore size distribution of soils with <sup>1</sup> H NMR relaxometry. <i>European Journal of Soil Science</i> , 2018, 69, 393-406.	3.9	34
31	Links between nanoscale and macroscale surface properties of natural root mucilage studied by atomic force microscopy and contact angle. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 446-455.	9.4	13
32	Implications of Pony Lake Fulvic Acid for the Aggregation and Dissolution of Oppositely Charged Surface-Coated Silver Nanoparticles and Their Ecotoxicological Effects on <i>Daphnia magna</i> . <i>Environmental Science &amp; Technology</i> , 2018, 52, 436-445.	10.0	39
33	Nanoparticles in the environment: where do we come from, where do we go to?. <i>Environmental Sciences Europe</i> , 2018, 30, 6.	5.5	595
34	Effect of mucilage on water properties in the rhizosphere monitored by <sup>1</sup> H-NMR relaxometry. <i>Microporous and Mesoporous Materials</i> , 2018, 269, 47-50.	4.4	12
35	Ion-induced modification of the sucrose network and its impact on melting of freeze-dried liposomes. DSC and molecular dynamics study. <i>Chemistry and Physics of Lipids</i> , 2018, 210, 38-46.	3.2	10
36	Cation binding in a soil with low exchange capacity: Implication for the structural rigidity of soil organic matter. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 453-461.	1.9	2

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37	Extraction and characterization methods for titanium dioxide nanoparticles from commercialized sunscreens. <i>Environmental Science: Nano</i> , 2018, 5, 191-202.	4.3	33
38	Formation of Water Molecule Bridges Governs Water Sorption Mechanisms in Soil Organic Matter. <i>Langmuir</i> , 2018, 34, 12174-12182.	3.5	8
39	The contribution of various organic matter fractions to soil-water interactions and structural stability of an agriculturally cultivated soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 586-599.	1.9	19
40	Quantitative Analysis of Poly(ethylene terephthalate) Microplastics in Soil via Thermogravimetry-Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 8793-8799.	6.5	122
41	Retention and remobilization mechanisms of environmentally aged silver nanoparticles in an artificial riverbank filtration system. <i>Science of the Total Environment</i> , 2018, 645, 192-204.	8.0	26
42	Effects of low dose silver nanoparticle treatment on the structure and community composition of bacterial freshwater biofilms. <i>PLoS ONE</i> , 2018, 13, e0199132.	2.5	27
43	Biohydrogel induced soil-water interactions: how to untangle the gel effect? A review. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 121-141.	1.9	37
44	Influence of organic chemicals on aliphatic crystallites analyzed in whole soils. <i>Geoderma</i> , 2017, 291, 40-46.	5.1	8
45	Land disposal of olive mill wastewater enhances ability of soil to sorb diuron: Temporal persistence, and the effects of soil depth and application season. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 43-51.	5.3	7
46	The effect of pH modification on wetting kinetics of a naturally water-repellent coniferous forest soil. <i>European Journal of Soil Science</i> , 2017, 68, 317-326.	3.9	6
47	Fractionation of copper and uranium in organic and conventional vineyard soils and adjacent stream sediments studied by sequential extraction. <i>Journal of Soils and Sediments</i> , 2017, 17, 1092-1100.	3.0	22
48	Influence of Organic Chemicals on Water Molecule Bridges in Soil Organic Matter of a Sapric Histosol. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2367-2376.	2.5	11
49	Effect of water entrapment by a hydrogel on the microstructural stability of artificial soils with various clay content. <i>Plant and Soil</i> , 2017, 414, 181-198.	3.7	17
50	Effects of olive oil mill wastewater on chemical, microbiological, and physical properties of soil incubated under four different climatic conditions. <i>Biology and Fertility of Soils</i> , 2017, 53, 89-102.	4.3	10
51	The fate of organic matter brought into soil by olive mill wastewater application at different seasons. <i>Journal of Soils and Sediments</i> , 2017, 17, 901-916.	3.0	8
52	Interaction of minerals, organic matter, and microorganisms during biogeochemical interface formation as shown by a series of artificial soil experiments. <i>Biology and Fertility of Soils</i> , 2017, 53, 9-22.	4.3	67
53	Effects of olive mill wastewater disposal on soil: Interaction mechanisms during different seasons. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 176-195.	2.0	17
54	Physical long-term regeneration dynamics of soil organic matter as followed by 1H solid-state NMR methods. <i>Environmental Chemistry</i> , 2016, 13, 50.	1.5	7

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55	Analytical strategies to the determination of metal-containing nanoparticles in environmental waters. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 84, 107-120.	11.4	60
56	The relation of structural mobility and water sorption of soil organic matter studied by $^1\text{H}$ and $^{13}\text{C}$ solid-state NMR. <i>Geoderma</i> , 2016, 284, 144-151.	5.1	9
57	Dehydration of $\Gamma$ -oxalic acid dihydrate: Structural, spectroscopic and thermal study with implications on the disruption of water molecular bridges in soil organic matter. <i>Thermochimica Acta</i> , 2016, 643, 73-82.	2.7	10
58	Synthesis, characterization, and ecotoxicity of $\text{CeO}_2$ nanoparticles with differing properties. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	13
59	Linking atomic force microscopy with nanothermal analysis to assess microspatial distribution of material characteristics in young soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 48-59.	1.9	5
60	Transport of soil-aged silver nanoparticles in unsaturated sand. <i>Journal of Contaminant Hydrology</i> , 2016, 195, 31-39.	3.3	12
61	Sublethal concentrations of silver nanoparticles affect the mechanical stability of biofilms. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24277-24288.	5.3	19
62	Impact of chemical composition of ecotoxicological test media on the stability and aggregation status of silver nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 418-433.	4.3	46
63	Diurnal Variations of Air-Soil Exchange of Semivolatile Organic Compounds (PAHs, PCBs, OCPs, and) $\text{Tj ETQq1 1 0.784314 rgBT /Over}$ 4278-4288.	10.0	85
64	Plastic mulching in agriculture. Trading short-term agronomic benefits for long-term soil degradation?. <i>Science of the Total Environment</i> , 2016, 550, 690-705.	8.0	977
65	Effect of plastic mulching on mycotoxin occurrence and mycobiome abundance in soil samples from asparagus crops. <i>Mycotoxin Research</i> , 2015, 31, 191-201.	2.3	41
66	Preface to the special section "Biohydrology - Water for life". <i>Ecohydrology</i> , 2015, 8, 353-354.	2.4	0
67	The seasonal influence of olive mill wastewater applications on an orchard soil under semi-arid conditions. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 641-648.	1.9	24
68	Effects of Olive Mill Wastewater on Soil Microarthropods and Soil Chemistry in Two Different Cultivation Scenarios in Israel and Palestinian Territories. <i>Agriculture (Switzerland)</i> , 2015, 5, 857-878.	3.1	20
69	Enzymatic Transformation and Bonding of Sulfonamide Antibiotics to Model Humic Substances. <i>Journal of Chemistry</i> , 2015, 2015, 1-11.	1.9	5
70	Transport of citrate-coated silver nanoparticles in unsaturated sand. <i>Science of the Total Environment</i> , 2015, 535, 113-121.	8.0	35
71	Characterization of wet aggregate stability of soils by $^1\text{H}$ -NMR relaxometry. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 694-703.	1.9	29
72	Development of phytotoxicity and composition of a soil treated with olive mill wastewater (OMW): an incubation study. <i>Plant and Soil</i> , 2015, 386, 99-112.	3.7	43

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73	Stabilisation of precipitates of pedogenic dissolved organic matter by multivalent cations. <i>Journal of Soils and Sediments</i> , 2015, 15, 1-12.	3.0	66
74	The fate of silver nanoparticles in soil solution – Sorption of solutes and aggregation. <i>Science of the Total Environment</i> , 2015, 535, 54-60.	8.0	139
75	Disaggregation of silver nanoparticle homoaggregates in a river water matrix. <i>Science of the Total Environment</i> , 2015, 535, 35-44.	8.0	66
76	Review on environmental alterations propagating from aquatic to terrestrial ecosystems. <i>Science of the Total Environment</i> , 2015, 538, 246-261.	8.0	88
77	Engineered nanoparticles in soils and waters. <i>Science of the Total Environment</i> , 2015, 535, 1-2.	8.0	17
78	Understanding the fate and biological effects of Ag- and TiO <sub>2</sub> -nanoparticles in the environment: The quest for advanced analytics and interdisciplinary concepts. <i>Science of the Total Environment</i> , 2015, 535, 3-19.	8.0	160
79	Effects of silver nanoparticle properties, media pH and dissolved organic matter on toxicity to <i>Daphnia magna</i> . <i>Ecotoxicology and Environmental Safety</i> , 2015, 111, 263-270.	6.0	76
80	Development of a Partial Least Squares-Based Integrated Addition Model for Predicting Mixture Toxicity. <i>Human and Ecological Risk Assessment (HERA)</i> , 2014, 20, 174-200.	3.4	11
81	Character of transitions causing the physicochemical aging of a sapric histosol. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1169-1182.	3.6	15
82	Effect of multivalent cations, temperature, and aging on SOM thermal properties. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1203-1213.	3.6	9
83	Effect of Heating Time and Temperature on the Chemical Characteristics of Biochar from Poultry Manure. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1912-1918.	5.2	106
84	Cation treatment and drying-temperature effects on nonylphenol and phenanthrene sorption to a sandy soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 141-149.	1.9	9
85	Proton transfer processes in polar regions of humic substances initiated by aqueous aluminum cation bridges: A computational study. <i>Geoderma</i> , 2014, 213, 115-123.	5.1	12
86	Evaluation of hydrodynamic chromatography coupled with inductively coupled plasma mass spectrometry detector for analysis of colloids in environmental media – effects of colloid composition, coating and shape. <i>Analytical Methods</i> , 2014, 6, 8722-8728.	2.7	29
87	Interactions of Dissolved Organic Matter with Natural and Engineered Inorganic Colloids: A Review. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8946-8962.	10.0	591
88	Effect of multivalent cations, temperature and aging on soil organic matter interfacial properties. <i>Environmental Chemistry</i> , 2014, 11, 709.	1.5	15
89	Molecular Models of Cation and Water Molecule Bridges in Humic Substances. , 2014, , 107-115.		4
90	Evaluation of Hydrodynamic Chromatography Coupled with UV-Visible, Fluorescence and Inductively Coupled Plasma Mass Spectrometry Detectors for Sizing and Quantifying Colloids in Environmental Media. <i>PLoS ONE</i> , 2014, 9, e90559.	2.5	47

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91	Reliable predictive computational toxicology methods for mixture toxicity: toward the development of innovative integrated models for environmental risk assessment. <i>Reviews in Environmental Science and Biotechnology</i> , 2013, 12, 235-256.	8.1	37
92	Interactions between cations and water molecule bridges in soil organic matter. <i>Journal of Soils and Sediments</i> , 2013, 13, 1579-1588.	3.0	17
93	Hydrodynamic Chromatography Coupled with Single Particle-Inductively Coupled Plasma Mass Spectrometry for Investigating Nanoparticles Agglomerates. <i>Analytical Chemistry</i> , 2013, 85, 10643-10647.	6.5	44
94	Development of QSAR-based two-stage prediction model for estimating mixture toxicity. <i>SAR and QSAR in Environmental Research</i> , 2013, 24, 841-861.	2.2	10
95	Water repellency enhances the deposition of negatively charged hydrophilic colloids in a water-saturated sand matrix. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 431, 150-160.	4.7	42
96	Sorption of Silver Nanoparticles to Environmental and Model Surfaces. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5083-5091.	10.0	42
97	A Case Study and a Computational Simulation of the European Union Draft Technical Guidance Documents for Chemical Safety Assessment of Mixtures: Limitations and a Tentative Alternative. <i>Journal of Occupational and Environmental Hygiene</i> , 2013, 10, 181-193.	1.0	1
98	Combined proton NMR wideline and NMR relaxometry to study SOM-water interactions of cation-treated soils. <i>Journal of Hydrology and Hydromechanics</i> , 2013, 61, 50-63.	2.0	34
99	Restructuring of a Peat in Interaction with Multivalent Cations: Effect of Cation Type and Aging Time. <i>PLoS ONE</i> , 2013, 8, e65359.	2.5	24
100	Hydration of humic and fulvic acids studied by DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 451-459.	3.6	20
101	Short-term evolution of hydration effects on soil organic matter properties and resulting implications for sorption of naphthalene-2-ol. <i>Journal of Soils and Sediments</i> , 2012, 12, 1269-1279.	3.0	14
102	Coevolution of organic substances and soils: links between soil forming processes and the stabilisation of organic substances. <i>Journal of Soils and Sediments</i> , 2012, 12, 1209-1210.	3.0	2
103	Preparation and characterization of humic acid cross-linked with organic bridging groups. <i>Organic Geochemistry</i> , 2012, 47, 132-138.	1.8	13
104	Cation-mediated cross-linking in natural organic matter: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 41-54.	8.1	94
105	Development of antibody-labelled superparamagnetic nanoparticles for the visualisation of benzo[a]pyrene in porous media with magnetic resonance imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2529-2540.	3.7	7
106	Titanium dioxide nanoparticles detoxify pirimicarb under UV irradiation at ambient intensities. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 518-523.	4.3	27
107	Potential of AFM nanothermal analysis to study the microscale thermal characteristics in soils and natural organic matter (NOM). <i>Journal of Soils and Sediments</i> , 2012, 12, 48-62.	3.0	10
108	A robust, particle size independent, method for quantifying metal(loid oxide) nanoparticles and their agglomerates in complex environmental matrices by electrothermal vaporisation coupled to ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 450-455.	3.0	15



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109	Translocation of Sb and Ti in an undisturbed floodplain soil after application of Sb <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> nanoparticles to the surface. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1204.	2.1	17
110	Molecular Dynamics Simulations of Water Molecule-Bridges in Polar Domains of Humic Acids. <i>Environmental Science &amp; Technology</i> , 2011, 45, 8411-8419.	10.0	54
111	Study of solvent effect on the stability of water bridge-linked carboxyl groups in humic acid models. <i>Geoderma</i> , 2011, 169, 20-26.	5.1	26
112	Optimized NMR spectroscopic strategy to characterize water dynamics in soil samples. <i>Organic Geochemistry</i> , 2011, 42, 917-925.	1.8	26
113	Biological Surface Coating and Molting Inhibition as Mechanisms of TiO <sub>2</sub> Nanoparticle Toxicity in <i>Daphnia magna</i> . <i>PLoS ONE</i> , 2011, 6, e20112.	2.5	169
114	The functionality of cation bridges for binding polar groups in soil aggregates. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1531-1542.	2.0	46
115	Proton Nuclear Magnetic Resonance (NMR) Relaxometry in Soil Science. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 667-667.	0.1	2
116	Comparative Study of Risk Assessment Approaches Based on Different Methods for Deriving DNEL and PNEC of Chemical Mixtures. <i>Springer Proceedings in Physics</i> , 2010, , 191-202.	0.2	1
117	Proton Nuclear Magnetic Resonance (NMR) Relaxometry in Soil Science Applications–!2009-05-04–!2010-01-25–!2010-06-18–!. <i>The Open Magnetic Resonance Journal</i> , 2010, 3, 15-26.	0.5	15
118	Proton NMR Relaxometry as a Useful Tool to Evaluate Swelling Processes in Peat Soils–!2009-07-26–!2009-12-04–!2010-06-15–!. <i>The Open Magnetic Resonance Journal</i> , 2010, 3, 27-45.	0.5	39
119	Influence of drying conditions on wettability and DRIFT spectroscopic C–H band of soil samples. <i>European Journal of Soil Science</i> , 2009, 60, 557-566.	3.9	26
120	Evaluation of <sup>1</sup> H NMR relaxometry for the assessment of pore size distribution in soil samples. <i>European Journal of Soil Science</i> , 2009, 60, 1052-1064.	3.9	118
121	Foreword to the thematic issue on Biohydrology. <i>Biologia (Poland)</i> , 2009, 64, 415-418.	1.5	2
122	Stabilizing Capacity of Water Bridges in Nanopore Segments of Humic Substances: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16468-16475.	3.1	47
123	Biogeochemistry of mineral–organic associations across a long-term mineralogical soil gradient (0.3–4100kyr), Hawaiian Islands. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2034-2060.	3.9	205
124	Melting and freezing of water in cylindrical silica nanopores. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6039.	2.8	297
125	Do water molecules bridge soil organic matter molecule segments?. <i>European Journal of Soil Science</i> , 2008, 59, 423-429.	3.9	67
126	Effects of Soil Solution's Constituents on Proton NMR Relaxometry of Soil Samples. <i>Soil Science Society of America Journal</i> , 2008, 72, 1694-1707.	2.2	28



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127	Influence of the sample history and the moisture status on the thermal behavior of soil organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 691-702.	3.9	21
128	Hydration Kinetics of Wettable and Water-Repellent Soils. <i>Soil Science Society of America Journal</i> , 2007, 71, 280-288.	2.2	21
129	The nature of wetting on urban soil samples: wetting kinetics and evaporation assessed from sessile drop shape. <i>Hydrological Processes</i> , 2007, 21, 2255-2265.	2.6	38
130	Influence of biofilms on the water repellency of urban soil samples. <i>Hydrological Processes</i> , 2007, 21, 2276-2284.	2.6	77
131	Development of soil water repellency in the course of isothermal drying and upon pH changes in two urban soils. <i>Hydrological Processes</i> , 2007, 21, 2266-2275.	2.6	50
132	Soil organic matter beyond molecular structure Part I: Macromolecular and supramolecular characteristics. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 145-156.	1.9	113
133	Restructuring of polygalacturonate on alumina upon hydration—Effect on phosphate sorption kinetics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2957-2969.	3.9	4
134	Properties of soil organic matter and aqueous extracts of actually water repellent and wettable soil samples. <i>Geoderma</i> , 2006, 132, 222-239.	5.1	74
135	Soil organic matter beyond molecular structure Part II: Amorphous nature and physical aging. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 157-167.	1.9	56
136	<sup>1</sup> H NMR Relaxometry in Natural Humous Soil Samples: Insights in Microbial Effects on Relaxation Time Distributions. <i>Plant and Soil</i> , 2006, 280, 209-222.	3.7	47
137	Thermomechanical analysis of air-dried whole soil samples. <i>Thermochimica Acta</i> , 2005, 436, 83-89.	2.7	19
138	Matrix relaxation and change of water state during hydration of peat. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 265, 163-170.	4.7	41
139	<sup>1</sup> H-NMR Relaxometry to Monitor Wetting and Swelling Kinetics in High-organic Matter Soils. <i>Plant and Soil</i> , 2005, 275, 1-20.	3.7	65
140	Glass Transitions in Peat: Their Relevance and the Impact of Water. <i>Environmental Science &amp; Technology</i> , 2005, 39, 800-806.	10.0	77
141	Is Glassiness a Common Characteristic of Soil Organic Matter?. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9534-9540.	10.0	35
142	Kinetics of the release of dissolved organic matter (DOM) from air-dried and pre-moistened soil material. <i>Journal of Plant Nutrition and Soil Science</i> , 2000, 163, 1-5.	1.9	24
143	Thermal characteristics of soil organic matter measured by DSC: A hint on a glass transition. <i>Journal of Plant Nutrition and Soil Science</i> , 2000, 163, 179-181.	1.9	38
144	Effect of CaCl <sub>2</sub> on the kinetics of dissolved organic matter release from a sandy soil?. <i>Journal of Plant Nutrition and Soil Science</i> , 2000, 163, 523-529.	1.9	20