

# Kai Uwe Totsche

## List of Publications by Year in descending order

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151  
papers

6,498  
citations

71061

41  
h-index

79644

73  
g-index

198  
all docs

198  
docs citations

198  
times ranked

6831  
citing authors

#	ARTICLE	IF	CITATIONS
1	How water connectivity and substrate supply shape the turnover of organic matter – Insights from simulations at the scale of microaggregates. <i>Geoderma</i> , 2022, 405, 115394.	2.3	11
2	Pathways of biogenically excreted organic matter into soil aggregates. <i>Soil Biology and Biochemistry</i> , 2022, 164, 108483.	4.2	59
3	Depth-differentiated, multivariate control of biopore number under different land-use practices. <i>Geoderma</i> , 2022, 418, 115852.	2.3	6
4	Net ecosystem exchange (NEE) estimates 2006–2019 over Europe from a pre-operational ensemble-inversion system. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7875-7892.	1.9	4
5	Well-defined poly(ethylene glycol) polymers as non-conventional reactive tracers of colloidal transport in porous media. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 592-601.	5.0	6
6	Event-driven dynamics of the total mobile inventory in undisturbed soil account for significant fluxes of particulate organic carbon. <i>Science of the Total Environment</i> , 2021, 756, 143774.	3.9	24
7	Organic Matter from Redoximorphic Soils Accelerates and Sustains Microbial Fe(III) Reduction. <i>Environmental Science &amp; Technology</i> , 2021, 55, 10821-10831.	4.6	22
8	Groundwater bacterial communities evolve over time in response to recharge. <i>Water Research</i> , 2021, 201, 117290.	5.3	35
9	The mechanisms of gravity-constrained aggregation in natural colloidal suspensions. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 126-136.	5.0	10
10	Exposure of humic acid-coated goethite colloids to groundwater does not affect their adsorption of metal(loid)s and their impact on Daphnid mobility. <i>Science of the Total Environment</i> , 2021, 797, 149153.	3.9	3
11	Soil Solution Analysis With Untargeted GC-MS – A Case Study With Different Lysimeter Types. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	4
12	Complex food webs coincide with high genetic potential for chemolithoautotrophy in fractured bedrock groundwater. <i>Water Research</i> , 2020, 170, 115306.	5.3	28
13	Multi-directional flow dynamics shape groundwater quality in sloping bedrock strata. <i>Journal of Hydrology</i> , 2020, 580, 124291.	2.3	26
14	Glucose-stimulation of natural microbial activity changes composition, structure and engineering properties of sandy and loamy soils. <i>Engineering Geology</i> , 2020, 265, 105381.	2.9	7
15	Environmental selection shapes the formation of near-surface groundwater microbiomes. <i>Water Research</i> , 2020, 170, 115341.	5.3	95
16	Earthworm mucus contributes to the formation of organo-mineral associations in soil. <i>Soil Biology and Biochemistry</i> , 2020, 145, 107785.	4.2	43
17	Short-term forecasting of regional biospheric CO <sub>2</sub> fluxes in Europe using a light-use-efficiency model (VPRM, MPI-BGC version 1.2). <i>Geoscientific Model Development</i> , 2020, 13, 4091-4106.	1.3	3
18	Predominance of <i>Cand. Patescibacteria</i> in Groundwater Is Caused by Their Preferential Mobilization From Soils and Flourishing Under Oligotrophic Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 1407.	1.5	160

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19	Integrating Aquatic and Terrestrial Perspectives to Improve Insights Into Organic Matter Cycling at the Landscape Scale. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	22
20	The endolithic bacterial diversity of shallow bedrock ecosystems. <i>Science of the Total Environment</i> , 2019, 679, 35-44.	3.9	34
21	Intraformational fluid flow in the Thuringian Syncline (Germany) - Evidence from stable isotope data in vein mineralization of Upper Permian and Mesozoic sediments. <i>Chemical Geology</i> , 2019, 523, 133-153.	1.4	4
22	Isolation of Individual Saturated Fatty Acid Methyl Esters Derived From Groundwater Phospholipids by Preparative High-Pressure Liquid Chromatography for Compound-Specific Radiocarbon Analyses. <i>Water Resources Research</i> , 2019, 55, 2521-2531.	1.7	5
23	Modeling the formation of soil microaggregates. <i>Computers and Geosciences</i> , 2019, 127, 36-43.	2.0	16
24	Fueling Diversity in the Subsurface: Composition and Age of Dissolved Organic Matter in the Critical Zone. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	29
25	Application of a Cellular Automaton Method to Model the Structure Formation in Soils Under Saturated Conditions: A Mechanistic Approach. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	11
26	<sup>14</sup> C-Free Carbon Is a Major Contributor to Cellular Biomass in Geochemically Distinct Groundwater of Shallow Sedimentary Bedrock Aquifers. <i>Water Resources Research</i> , 2019, 55, 2104-2121.	1.7	24
27	Identification and quantification of single constituents in groundwater with Fourier-transform infrared spectroscopy and Positive Matrix Factorization. <i>Vibrational Spectroscopy</i> , 2019, 100, 152-158.	1.2	6
28	Formation of mineral-mineral and organo-mineral composite building units from microaggregate-forming materials including microbially produced extracellular polymeric substances. <i>European Journal of Soil Science</i> , 2019, 70, 604-615.	1.8	35
29	Selective transport and retention of organic matter and bacteria shapes initial pedogenesis in artificial soil - A two-layer column study. <i>Geoderma</i> , 2018, 325, 37-48.	2.3	23
30	Microaggregates in soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 104-136.	1.1	567
31	Multi-species inversion and IAGOS airborne data for a better constraint of continental-scale fluxes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9225-9241.	1.9	7
32	Efficient Prediction of Multidomain Flow and Transport in Hierarchically Structured Porous Media. <i>Water Resources Research</i> , 2018, 54, 9033-9044.	1.7	5
33	In situ production of core and intact bacterial and archaeal tetraether lipids in groundwater. <i>Organic Geochemistry</i> , 2018, 126, 1-12.	0.9	14
34	Discrete-Continuum Multiphase Model for Structure Formation in Soils Including Electrostatic Effects. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	11
35	Subsurface aquifer heterogeneities of Lower Triassic clastic sediments in central Germany. <i>Marine and Petroleum Geology</i> , 2018, 97, 209-222.	1.5	9
36	Selective successional transport of bacterial populations from rooted agricultural topsoil to deeper layers upon extreme precipitation events. <i>Soil Biology and Biochemistry</i> , 2018, 124, 168-178.	4.2	16

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37	First insights into the living groundwater mycobiome of the terrestrial biogeosphere. <i>Water Research</i> , 2018, 145, 50-61.	5.3	26
38	Quantification of pH-dependent speciation of organic compounds with spectroscopy and chemometrics. <i>Chemosphere</i> , 2017, 172, 175-184.	4.2	7
39	Attached and Suspended Denitrifier Communities in Pristine Limestone Aquifers Harbor High Fractions of Potential Autotrophs Oxidizing Reduced Iron and Sulfur Compounds. <i>Microbial Ecology</i> , 2017, 74, 264-277.	1.4	50
40	Steel pickling rinse water sludge: Concealed formation of Cr(VI) driven by the enhanced oxidation of nitrite. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2163-2170.	3.3	7
41	Vegetation impacts soil water content patterns by shaping canopy water fluxes and soil properties. <i>Hydrological Processes</i> , 2017, 31, 3783-3795.	1.1	62
42	Candidate Brocadiales dominates C, N and S cycling in anoxic groundwater of a pristine limestone-fracture aquifer. <i>Journal of Proteomics</i> , 2017, 152, 153-160.	1.2	36
43	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.	2.3	67
44	Colloidal Stability and Mobility of Extracellular Polymeric Substance Amended Hematite Nanoparticles. <i>Vadose Zone Journal</i> , 2017, 16, 1-10.	1.3	16
45	The constraint of CO <sub>2</sub> measurements made onboard passenger aircraft on surface-atmosphere fluxes: the impact of transport model errors in vertical mixing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5665-5675.	1.9	4
46	Nitrogen Loss from Pristine Carbonate-Rock Aquifers of the Hainich Critical Zone Exploratory (Germany) Is Primarily Driven by Chemolithoautotrophic Anammox Processes. <i>Frontiers in Microbiology</i> , 2017, 8, 1951.	1.5	48
47	Archaeal Diversity and CO <sub>2</sub> Fixers in Carbonate-/Siliciclastic-Rock Groundwater Ecosystems. <i>Archaea</i> , 2017, 2017, 1-13.	2.3	28
48	Carbon isotopes of dissolved inorganic carbon reflect utilization of different carbon sources by microbial communities in two limestone aquifer assemblages. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4283-4300.	1.9	45
49	Disentangling the root- and detritus-based food chain in the micro-food web of an arable soil by plant removal. <i>PLoS ONE</i> , 2017, 12, e0180264.	1.1	16
50	Functional diversity of microbial communities in pristine aquifers inferred by PLFA- and sequencing-based approaches. <i>Biogeosciences</i> , 2017, 14, 2697-2714.	1.3	72
51	Aquifer configuration and geostructural links control the groundwater quality in thin-bedded carbonate-siliciclastic alternations of the Hainich CZE, central Germany. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6091-6116.	1.9	58
52	Ferrihydrite-associated organic matter (OM) stimulates reduction by <i>Shewanella oneidensis</i> MR-1 and a complex microbial consortia. <i>Biogeosciences</i> , 2017, 14, 5171-5188.	1.3	44
53	How Deep Can Surface Signals Be Traced in the Critical Zone? Merging Biodiversity with Biogeochemistry Research in a Central German Muschelkalk Landscape. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	98
54	Superimposed Pristine Limestone Aquifers with Marked Hydrochemical Differences Exhibit Distinct Fungal Communities. <i>Frontiers in Microbiology</i> , 2016, 7, 666.	1.5	24

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55	Closed-flow column experiments—Insights into solute transport provided by a damped oscillating breakthrough behavior. <i>Water Resources Research</i> , 2016, 52, 2206-2221.	1.7	5
56	The composition of mobile matter in a floodplain topsoil: A comparative study with soil columns and field lysimeters. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 18-28.	1.1	7
57	Closed-flow column experiments: A numerical sensitivity analysis of reactive transport and parameter uncertainty. <i>Water Resources Research</i> , 2016, 52, 6094-6110.	1.7	5
58	Schwertmannite formation at cell junctions by a new filament-forming Fe(II)-oxidizing isolate affiliated with the novel genus <i>Acidithrix</i> . <i>Microbiology (United Kingdom)</i> , 2016, 162, 62-71.	0.7	13
59	Iron encrustations on filamentous algae colonized by <i>Gallionella</i> -related bacteria in a metal-polluted freshwater stream. <i>Biogeosciences</i> , 2015, 12, 5277-5289.	1.3	13
60	Large Fractions of CO <sub>2</sub> -Fixing Microorganisms in Pristine Limestone Aquifers Appear To Be Involved in the Oxidation of Reduced Sulfur and Nitrogen Compounds. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2384-2394.	1.4	86
61	Constraints of propylene glycol degradation at low temperatures and saturated flow conditions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3158-3174.	2.7	6
62	Structure and composition of Fe-OM co-precipitates that form in soil-derived solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 167-183.	1.6	33
63	Size- and Composition-Dependent Toxicity of Synthetic and Soil-Derived Fe Oxide Colloids for the Nematode <i>Caenorhabditis elegans</i> . <i>Environmental Science &amp; Technology</i> , 2015, 49, 544-552.	4.6	36
64	An objective prior error quantification for regional atmospheric inverse applications. <i>Biogeosciences</i> , 2015, 12, 7403-7421.	1.3	17
65	Reduction of ferrihydrite with adsorbed and coprecipitated organic matter: microbial reduction by <i>Geobacter bremensis</i> vs. abiotic reduction by Na-dithionite. <i>Biogeosciences</i> , 2014, 11, 4953-4966.	1.3	92
66	Selective transport of plant root-associated bacterial populations in agricultural soils upon snowmelt. <i>Soil Biology and Biochemistry</i> , 2014, 69, 187-196.	4.2	59
67	Biodegradation of ferrihydrite-associated organic matter. <i>Biogeochemistry</i> , 2014, 119, 45-50.	1.7	80
68	Electrical resistivity tomography as monitoring tool for unsaturated zone transport: an example of preferential transport of deicing chemicals. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8964-8980.	2.7	13
69	A NanoSIMS study on the distribution of soil organic matter, iron and manganese in a nodule from a S-tag soil. <i>European Journal of Soil Science</i> , 2014, 65, 684-692.	1.8	21
70	Identification of Mn(II)-Oxidizing Bacteria from a Low-pH Contaminated Former Uranium Mine. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5086-5097.	1.4	91
71	Degradation of deicing chemicals affects the natural redox system in airfield soils. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9036-9053.	2.7	11
72	Oxygen availability and distance to surface environments determine community composition and abundance of ammonia-oxidizing prokaryotes in two superimposed pristine limestone aquifers in the Hainich region, Germany. <i>FEMS Microbiology Ecology</i> , 2014, 90, 39-53.	1.3	42

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73	Characterisation of Andosols from Laacher See tephra by wet-chemical and spectroscopic techniques (FTIR, 27Al-, 29Si-NMR). <i>Chemical Geology</i> , 2014, 363, 13-21.	1.4	16
74	Citrate influences microbial Fe hydroxide reduction via a dissolutionâ€“disaggregation mechanism. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 434-446.	1.6	19
75	Impact of optimized mixing heights on simulated regional atmospheric transport of CO&lt;sub&gt;2&lt;/sub&gt;. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7149-7172.	1.9	33
76	Kinetic control of contaminant release from NAPLs â€“ Experimental evidence. <i>Environmental Pollution</i> , 2013, 179, 315-325.	3.7	18
77	Phagotrophic Protist Diversity in the Groundwater of a Karstified Aquifer â€“ Morphological and Molecular Analysis. <i>Journal of Eukaryotic Microbiology</i> , 2013, 60, 467-479.	0.8	18
78	Microbial ecology of biogeochemical interfaces - diversity, structure, and function of microhabitats in soil. <i>FEMS Microbiology Ecology</i> , 2013, 86, 1-2.	1.3	22
79	A simple method to synthesize birnessite at ambient pressure and temperature. <i>Geoderma</i> , 2013, 193-194, 117-121.	2.3	42
80	Synthesis of cryptomelane- and birnessite-type manganese oxides at ambient pressure and temperature. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 44-50.	5.0	19
81	STXM and NanoSIMS Investigations on EPS Fractions before and after Adsorption to Goethite. <i>Environmental Science &amp; Technology</i> , 2013, 47, 3158-3166.	4.6	95
82	Kinetic control of contaminant release from NAPLs â€“ Information potential of concentration time profiles. <i>Environmental Pollution</i> , 2013, 179, 301-314.	3.7	8
83	Transport and degradation of propylene glycol in the vadose zone: model development and sensitivity analysis. <i>Environmental Science and Pollution Research</i> , 2013, 21, 9054-66.	2.7	8
84	The phenanthreneâ€“sorptive interface of an arable topsoil and its particle size fractions. <i>European Journal of Soil Science</i> , 2013, 64, 121-130.	1.8	5
85	Calcite Biomineralization by Bacterial Isolates from the Recently Discovered Pristine Karstic Herrenberg Cave. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1157-1167.	1.4	112
86	Iron species in soils on a mofette site studied by Fe K-edge X-ray absorption near-edge spectroscopy. <i>Chemical Geology</i> , 2012, 332-333, 116-123.	1.4	31
87	Carbon flow into microbial and fungal biomass as a basis for the belowground food web of agroecosystems. <i>Pedobiologia</i> , 2012, 55, 111-119.	0.5	98
88	Fast microbial reduction of ferrihydrite colloids from a soil effluent. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 444-456.	1.6	27
89	Estimation of clay content from easily measurable water content of airâ€“dried soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 367-376.	1.1	37
90	Modeling the kinetics of microbial degradation of deicing chemicals in porous media under flow conditions. <i>Environmental Pollution</i> , 2012, 168, 96-106.	3.7	7

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91	Advanced spectroscopic, microscopic, and tomographic characterization techniques to study biogeochemical interfaces in soil. <i>Journal of Soils and Sediments</i> , 2012, 12, 3-23.	1.5	34
92	Fractionation of Organic Matter Due to Reaction with Ferrihydrite: Coprecipitation versus Adsorption. <i>Environmental Science &amp; Technology</i> , 2011, 45, 527-533.	4.6	217
93	Contaminants at Former Manufactured Gas Plants: Sources, Properties, and Processes. <i>Critical Reviews in Environmental Science and Technology</i> , 2011, 41, 1883-1969.	6.6	29
94	Specific surface area of clay minerals: Comparison between atomic force microscopy measurements and bulk-gas (N <sub>2</sub> ) and -liquid (EGME) adsorption methods. <i>Applied Clay Science</i> , 2011, 53, 20-26.	2.6	186
95	Advances of molecular modeling of biogeochemical interfaces in soils. <i>Geoderma</i> , 2011, 169, 1-3.	2.3	6
96	Characterization of a Technosol developed from deposited flue-dust slurry and release of inorganic contaminants. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 721-731.	1.1	5
97	Influence of geogenic CO <sub>2</sub> on mineral and organic soil constituents on a mofette site in the NW Czech Republic. <i>European Journal of Soil Science</i> , 2011, 62, 572-580.	1.8	47
98	Arsenic strongly associates with ferrihydrite colloids formed in a soil effluent. <i>Environmental Pollution</i> , 2011, 159, 1398-1405.	3.7	71
99	Dissolved Inorganic Contaminants in a Floodplain Soil: Comparison of In Situ Soil Solutions and Laboratory Methods. <i>Water, Air, and Soil Pollution</i> , 2010, 209, 489-500.	1.1	35
100	Biogeochemical interfaces in soil: The interdisciplinary challenge for soil science. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 88-99.	1.1	143
101	How electron flow controls contaminant dynamics. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3-6.	4.6	10
102	Nanosized Ferrihydrite Colloids Facilitate Microbial Iron Reduction under Flow Conditions. <i>Geomicrobiology Journal</i> , 2010, 27, 123-129.	1.0	23
103	Status and mobilization of trace elements in two ochreous soils of the Ruhr valley, Germany. <i>Journal of Plant Nutrition and Soil Science</i> , 2009, 172, 464-466.	1.1	0
104	Model study on sorption of polycyclic aromatic hydrocarbons to goethite. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 244-249.	5.0	37
105	Difference in PAH release processes from tar-oil contaminated soil materials with similar contamination history. <i>Chemie Der Erde</i> , 2009, 69, 109-124.	0.8	26
106	How do long-term development and periodical changes of river-floodplain systems affect the fate of contaminants? Results from European rivers. <i>Environmental Pollution</i> , 2009, 157, 3336-3346.	3.7	70
107	Spatial variability of topsoils and vegetation in a grazed steppe ecosystem in Inner Mongolia (PR) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.1	30
108	PAH release from tar-oil contaminated soil material in response to forced environmental gradients: implications for contaminant transport. <i>European Journal of Soil Science</i> , 2008, 59, 50-60.	1.8	6



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109	Effective rates of heavy metal release from alkaline wastes " Quantified by column outflow experiments and inverse simulations. <i>Journal of Contaminant Hydrology</i> , 2008, 101, 53-66.	1.6	37
110	Grazing effects on soil chemical and physical properties in a semiarid steppe of Inner Mongolia (P.R.) <i>Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5</i>	2.3	372
111	A rapid and efficient determination of natural estrogens in soils by pressurised liquid extraction and gas chromatography"mass spectrometry. <i>Chemosphere</i> , 2008, 71, 954-960.	4.2	45
112	Characterization of Ferrihydrite-Soil Organic Matter Coprecipitates by X-ray Diffraction and M"ssbauer Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7891-7897.	4.6	268
113	Single Event-Driven Export of Polycyclic Aromatic Hydrocarbons and Suspended Matter from Coal Tar-Contaminated Soil. <i>Vadose Zone Journal</i> , 2007, 6, 233-243.	1.3	38
114	Editorial: Molecular modelling in soil research. <i>European Journal of Soil Science</i> , 2007, 58, 867-869.	1.8	1
115	Sorption of polycyclic aromatic hydrocarbons to mineral surfaces. <i>European Journal of Soil Science</i> , 2007, 58, 918-931.	1.8	106
116	Small scale spatial variability of organic carbon stocks in litter and solum of a forested Luvisol. <i>Geoderma</i> , 2006, 136, 631-642.	2.3	110
117	Release of Polycyclic Aromatic Hydrocarbons, Dissolved Organic Carbon, and Suspended Matter from Disturbed NAPL-Contaminated Gravelly Soil Material. <i>Vadose Zone Journal</i> , 2006, 5, 469-479.	1.3	43
118	Unbiased identification of nonlinear sorption characteristics by soil column breakthrough experiments. <i>Computational Geosciences</i> , 2006, 9, 203-217.	1.2	2
119	Transport and anaerobic biodegradation of propylene glycol in gravel-rich soil materials. <i>Journal of Contaminant Hydrology</i> , 2006, 85, 271-286.	1.6	36
120	Andic properties in soils developed from nonvolcanic materials in Central Bhutan. <i>Journal of Plant Nutrition and Soil Science</i> , 2005, 168, 703-713.	1.1	37
121	Determination of effective release rates of polycyclic aromatic hydrocarbons and dissolved organic carbon by column outflow experiments. <i>European Journal of Soil Science</i> , 2005, 56, 050912034650044.	1.8	14
122	Condensation degree of burnt peat and plant residues and the reliability of solid-state VACP MAS 13C NMR spectra obtained from pyrogenic humic material. <i>Organic Geochemistry</i> , 2005, 36, 1359-1377.	0.9	129
123	Mobile Organic Sorbent Affected Contaminant Transport in Soil: Numerical Case Studies for Enhanced and Reduced Mobility. <i>Vadose Zone Journal</i> , 2004, 3, 352-367.	1.3	36
124	Mobility of the growth promoters trenbolone and melengestrol acetate in agricultural soil: column studies. <i>Science of the Total Environment</i> , 2004, 326, 225-237.	3.9	29
125	CP dynamics of heterogeneous organic material: characterization of molecular domains in coals. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 25, 252-266.	1.5	19
126	Mobile Organic Sorbent Affected Contaminant Transport in Soil: Numerical Case Studies for Enhanced and Reduced Mobility. <i>Vadose Zone Journal</i> , 2004, 3, 352-367.	1.3	13



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127	Detection of non-equilibrium contaminant release in soil columns: Delineation of experimental conditions by numerical simulations. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 475-483.	1.1	46
128	Preferential flow and aging of NAPL in the unsaturated soil zone of a hazardous waste site: implications for contaminant transport. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 102-110.	1.1	22
129	Sorption and Transport of Iron-Cyanide Complexes in Goethite-coated Sand. <i>Soil Science Society of America Journal</i> , 2003, 67, 756-764.	1.2	6
130	Sorption and Transport of Iron-Cyanide Complexes in Goethite-coated Sand. <i>Soil Science Society of America Journal</i> , 2003, 67, 756.	1.2	5
131	Pesticide displacement along preferential flow pathways in a Brazilian Oxisol. <i>Geoderma</i> , 2002, 110, 63-86.	2.3	62
132	Simulation of carrier-facilitated transport of phenanthrene in a layered soil profile. <i>Journal of Contaminant Hydrology</i> , 2002, 56, 209-225.	1.6	22
133	Fate of anthracene in contaminated soil: transport and biochemical transformation under unsaturated flow conditions. <i>European Journal of Soil Science</i> , 2002, 53, 71-81.	1.8	51
134	Physicochemical factors controlling the release of dissolved organic carbon from columns of forest subsoils. <i>European Journal of Soil Science</i> , 2002, 53, 311-320.	1.8	76
135	PAH mobility in contaminated industrial soils: a Markov chain approach to the spatial variability of soil properties and PAH levels. <i>Geoderma</i> , 2001, 102, 371-389.	2.3	30
136	Release and mobility of polycyclic aromatic hydrocarbons and iron-cyanide complexes in contaminated soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2001, 164, 643-649.	1.1	12
137	Fluoro-mobilization of metals in a Slovak forest soil affected by the emissions of an aluminum smelter. <i>Journal of Plant Nutrition and Soil Science</i> , 2000, 163, 503-508.	1.1	15
138	Desorption of Polycyclic Aromatic Hydrocarbons from Soil in the Presence of Dissolved Organic Matter: Effect of Solution Composition and Aging. <i>Journal of Environmental Quality</i> , 2000, 29, 906-916.	1.0	46
139	Evaluation of Fluoride-induced Metal Mobilization in Soil Columns. <i>Journal of Environmental Quality</i> , 2000, 29, 454-459.	1.0	44
140	On-line Solid Phase Extraction for Polycyclic Aromatic Hydrocarbons in Soil Column Effluents. <i>Journal of Environmental Quality</i> , 1999, 28, 730-732.	1.0	6
141	Desorption controlled mobility and intrinsic biodegradation of anthracene in unsaturated soil. <i>Physics and Chemistry of the Earth</i> , 1999, 24, 549-555.	0.3	9
142	Influence of dissolved and colloidal phase humic substances on the transport of hydrophobic organic contaminants in soils. <i>Physics and Chemistry of the Earth</i> , 1998, 23, 179-185.	0.3	39
143	Identification of nonlinear sorption isotherms by soil column breakthrough experiments. <i>Physics and Chemistry of the Earth</i> , 1998, 23, 215-219.	0.3	3
144	Heterogenität der Bodeneigenschaften und der Schadstoffbelastung eines ehemaligen Gaswerkstandortes. <i>Grundwasser</i> , 1998, 3, 175-182.	1.4	7

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145	Flow and Reactivity Effects on Dissolved Organic Matter Transport in Soil Columns. Soil Science Society of America Journal, 1998, 62, 1268-1274.	1.2	77
146	Dissolved Organic Matterâ€Enhanced Retention of Polycyclic Aromatic Hydrocarbons in Soil Miscible Displacement Experiments. Journal of Environmental Quality, 1997, 26, 1090-1100.	1.0	112
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