Peter Grathwohl

List of Publications by Year
in descending order

169 papers	8,383 citations	34105 52 h-index	54911 84 g-index
190 all docs	190 docs citations	190 times ranked	6589 citing authors

#	Article	IF	Citations
1	Determination of hydrocarbon sources in major rivers and estuaries of peninsular Malaysia using aliphatic hydrocarbons and hopanes as biomarkers. Environmental Forensics, 2022, 23, 255-268.	2.6	9
2	Dilution of PAHs loadings of particulate matter in air, dust and rivers in urban areas: A comparative study (Tehran megacity, Iran and city of TÃ¼bingen, SW-Germany). Science of the Total Environment, 2022, 806, 151268.	8.0	7
3	Long-Term Leaching Behavior of Organic and Inorganic Pollutants after Wet Processing of Solid Waste Materials. Materials, 2022, 15, 858.	2.9	3
4	First order approximation for coupled film and intraparticle pore diffusion to model sorption/desorption batch experiments. Journal of Hazardous Materials, 2022, 429, 128314.	12.4	9
5	Dilution of concentrations of PAHs from atmospheric particles, bulk deposition to soil: a review. Environmental Geochemistry and Health, 2022, 44, 4219-4234.	3.4	7
6	Travel time-based modelling of nitrate reduction in a fractured limestone aquifer by pyrite and iron carbonates under pore size limitation. Journal of Contaminant Hydrology, 2022, 248, 103983.	3.3	2
7	Nitrate reduction potential of a fractured Middle Triassic carbonate aquifer in Southwest Germany. Hydrogeology Journal, 2022, 30, 163-180.	2.1	4
8	Unique calibration of passive air sampling for field monitoring of PAHs with polyethylene thin films across seasons and locations. Environmental Science Atmospheres, 2021, 1, 253-266.	2.4	2
9	å¾·å›½è¥¿å—éƒ¨è£‚éš™å²©æº¶å«æ°´å±‚åœ°ä¸‹æ°´è¡¥ç»™è¿‡ç¨‹ä¸çš„ç¡é…¸ç›åŽ»é™¤å®žéªŒ. Hydrogeology Journal, 2021, 29, 1153-1171.	2.2	1
10	In-situ and ex-situ measurement of hydrophobic organic contaminants in soil air based on passive sampling: PAH exchange kinetics, non-equilibrium correction and comparison with traditional estimations. Journal of Hazardous Materials, 2021, 410, 124646.	12.4	4
11	Nitrate Removal by a Novel Lithoautotrophic Nitrate-Reducing, Iron(II)-Oxidizing Culture Enriched from a Pyrite-Rich Limestone Aquifer. Applied and Environmental Microbiology, 2021, 87, e0046021.	3.1	22
12	Anaerobic Neutrophilic Pyrite Oxidation by a Chemolithoautotrophic Nitrate-Reducing Iron(II)-Oxidizing Culture Enriched from a Fractured Aquifer. Environmental Science & Technology, 2021, 55, 9876-9884.	10.0	25
13	Long-term behavior of PFAS in contaminated agricultural soils in Germany. Journal of Contaminant Hydrology, 2021, 241, 103812.	3.3	37
14	Mass Transfer Principles in Column Percolation Tests: Initial Conditions and Tailing in Heterogeneous Materials. Materials, 2021, 14, 4708.	2.9	5
15	Impact of trophic levels on partitioning and bioaccumulation of polycyclic aromatic hydrocarbons in particulate organic matter and plankton. Marine Pollution Bulletin, 2020, 160, 111527.	5.0	14
16	Managing collaborative research data for integrated, interdisciplinary environmental research. Earth Science Informatics, 2020, 13, 641-654.	3.2	3
17	Particle bound pollutants in rivers: Results from suspended sediment sampling in Globaqua River Basins. Science of the Total Environment, 2019, 647, 645-652.	8.0	77
18	Redox hydrogeochemistry of organic rich floodplain exemplified by Ammer river. E3S Web of Conferences, 2019, 98, 09014.	0.5	0

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19	Air-soil diffusive exchange of PAHs in an urban park of Shanghai based on polyethylene passive sampling: Vertical distribution, vegetation influence and diffusive flux. Science of the Total Environment, 2019, 689, 734-742.	8.0	14
20	Microplasticâ€“Contaminant Interactions: Influence of Nonlinearity and Coupled Mass Transfer. Environmental Toxicology and Chemistry, 2019, 38, 1635-1644.	4.3	29
21	Influence of flow rate and particle size on local equilibrium in column percolation tests using crushed masonry. Journal of Material Cycles and Waste Management, 2019, 21, 642-651.	3.0	4
22	Fate of wastewater contaminants in rivers: Using conservative-tracer based transfer functions to assess reactive transport. Science of the Total Environment, 2019, 656, 1250-1260.	8.0	37
23	Transitory microbial habitat in the hyperarid Atacama Desert. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2670-2675.	7.1	172
24	A combined experimental and modeling study to evaluate pH-dependent sorption of polar and non-polar compounds to polyethylene and polystyrene microplastics. Environmental Sciences Europe, 2018, 30, 30.	5.5	106
25	Bulk metal concentrations versus total suspended solids in rivers: Time-invariant & catchment-specific relationships. PLoS ONE, 2018, 13, e0191314.	2.5	26
26	Modeling controls on the chemical weathering of marine mudrocks from the Middle Jurassic in Southern Germany. Chemical Geology, 2017, 459, 1-12.	3.3	15
27	Impact of pre-equilibration and diffusion limited release kinetics on effluent concentration in column leaching tests: Insights from numerical simulations. Waste Management, 2017, 63, 58-73.	7.4	9
28	Shift in Mass Transfer of Wastewater Contaminants from Microplastics in the Presence of Dissolved Substances. Environmental Science & Technology, 2017, 51, 12254-12263.	10.0	118
29	Atmospheric bulk deposition of polycyclic aromatic hydrocarbons in Shanghai: Temporal and spatial variation, and global comparison. Environmental Pollution, 2017, 230, 639-647.	7.5	21
30	A parsimonious approach to estimate PAH concentrations in river sediments of anthropogenically impacted watersheds. Science of the Total Environment, 2017, 601-602, 636-645.	8.0	17
31	A travel timeâ€based approach to model kinetic sorption in highly heterogeneous porous media via reactive hydrofacies. Water Resources Research, 2016, 52, 9390-9411.	4.2	10
32	Experimental investigation of transverse mixing in porous media under helical flow conditions. Physical Review E, 2016, 94, 013113.	2.1	13
33	Modeling short-term concentration fluctuations of semi-volatile pollutants in the soilâ€“plantâ€“atmosphere system. Science of the Total Environment, 2016, 569-570, 159-167.	8.0	11
34	Using total suspended solids (TSS) and turbidity as proxies for evaluation of metal transport in river water. Applied Geochemistry, 2016, 68, 1-9.	3.0	80
35	A high-precision sampling scheme to assess persistence and transport characteristics of micropollutants in rivers. Science of the Total Environment, 2016, 540, 444-454.	8.0	39
36	Enhanced Immobilization of Polycyclic Aromatic Hydrocarbons in Contaminated Soil Using Forest Wood-Derived Biochar and Activated Carbon under Saturated Conditions, and the Importance of Biochar Particle Size. Polish Journal of Environmental Studies, 2016, 25, 427-441.	1.2	13

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37	Experimental Evidence of Helical Flow in Porous Media. Physical Review Letters, 2015, 115, 194502.	7.8	52
38	Enhancement of plume dilution in twoâ€dimensional and threeâ€dimensional porous media by flow focusing in highâ€permeability inclusions. Water Resources Research, 2015, 51, 5582-5602.	4.2	46
39	Groundwater temperature evolution in the subsurface urban heat island of Cologne, Germany. Hydrological Processes, 2015, 29, 965-978.	2.6	45
40	Oxygen Transfer in a Fluctuating Capillary Fringe: Impact of Microbial Respiratory Activity. Vadose Zone Journal, 2015, 14, 1-14.	2.2	18
41	Diffusiveâ€“Dispersive and Reactive Fronts in Porous Media: Iron(II) Oxidation at the Unsaturatedâ€“Saturated Interface. Vadose Zone Journal, 2015, 14, 1-14.	2.2	30
42	Evolution of carbon isotope signatures during reactive transport of hydrocarbons in heterogeneous aquifers. Journal of Contaminant Hydrology, 2015, 174, 10-27.	3.3	16
43	Flow-through experiments on waterâ€“rock interactions in a sandstone caused by CO2 injection at pressures and temperatures mimicking reservoir conditions. Applied Geochemistry, 2015, 58, 136-146.	3.0	55
44	Impact of Heterogeneity on Oxygen Transfer in a Fluctuating Capillary Fringe. Ground Water, 2015, 53, 57-70.	1.3	22
45	Modeling long-term uptake and re-volatilization of semi-volatile organic compounds (SVOCs) across the soilâ€“atmosphere interface. Science of the Total Environment, 2015, 538, 789-801.	8.0	14
46	Soil carbon, multiple benefits. Environmental Development, 2015, 13, 33-38.	4.1	75
47	Experimental investigation of compound-specific dilution of solute plumes in saturated porous media: 2-D vs. 3-D flow-through systems. Journal of Contaminant Hydrology, 2015, 172, 33-47.	3.3	52
48	Managing the effects of multiple stressors on aquatic ecosystems under water scarcity. The GLOBAQUA project. Science of the Total Environment, 2015, 503-504, 3-9.	8.0	161
49	Particle-Facilitated Transport of Lindane in Water-Saturated Tropical Lateritic Porous Media. Journal of Environmental Quality, 2014, 43, 1392-1403.	2.0	6
50	Experimental Sensitivity Analysis of Oxygen Transfer in the Capillary Fringe. Ground Water, 2014, 52, 37-49.	1.3	13
51	High-resolution aquifer analog of fluvialâ€“aeolian sediments of the Guarani aquifer system. Environmental Earth Sciences, 2014, 71, 3081-3094.	2.7	11
52	Multicomponent ionic dispersion during transport of electrolytes in heterogeneous porous media: Experiments and model-based interpretation. Geochimica Et Cosmochimica Acta, 2014, 141, 656-669.	3.9	46
53	On equilibration of pore water in column leaching tests. Waste Management, 2014, 34, 908-918.	7.4	21
54	Monitoring of event-based mobilization of hydrophobic pollutants in rivers: Calibration of turbidity as a proxy for particle facilitated transport in field and laboratory. Science of the Total Environment, 2014, 490, 191-198.	8.0	53

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55	Altered transport of lindane caused by the retention of natural particles in saturated porous media. Journal of Contaminant Hydrology, 2014, 162-163, 47-63.	3.3	5
56	Effect of natural particles on the transport of lindane in saturated porous media: Laboratory experiments and model-based analysis. Journal of Contaminant Hydrology, 2013, 149, 13-26.	3.3	25
57	WESS: an interdisciplinary approach to catchment research. Environmental Earth Sciences, 2013, 69, 313-315.	2.7	1
58	Catchments as reactors: a comprehensive approach for water fluxes and solute turnover. Environmental Earth Sciences, 2013, 69, 317-333.	2.7	71
59	Turbidity as a proxy for total suspended solids (TSS) and particle facilitated pollutant transport in catchments. Environmental Earth Sciences, 2013, 69, 373-380.	2.7	128
60	Long-term solute transport and geochemical equilibria in seepage water and groundwater in a catchment cross section. Environmental Earth Sciences, 2013, 69, 429-441.	2.7	10
61	Isosteric heats of sorption and desorption of phenanthrene in soils and carbonaceous materials. Environmental Pollution, 2013, 175, 110-116.	7.5	5
62	Performance evaluation of different horizontal subsurface flow wetland types by characterization of flow behavior, mass removal and depth-dependent contaminant load. Water Research, 2013, 47, 769-780.	11.3	48
63	Effects of compound-specific transverse mixing on steady-state reactive plumes: Insights from pore-scale simulations and Darcy-scale experiments. Advances in Water Resources, 2013, 54, 1-10.	3.8	63
64	Coulombic effects in advection-dominated transport of electrolytes in porous media: Multicomponent ionic dispersion. Geochimica Et Cosmochimica Acta, 2013, 120, 195-205.	3.9	56
65	Integrated monitoring of particle associated transport of PAHs in contrasting catchments. Environmental Pollution, 2013, 172, 155-162.	7.5	59
66	Determination of the subcooled liquid solubilities of PAHs in partitioning batchÂexperiments. Geoscience Frontiers, 2013, 4, 123-126.	8.4	10
67	Comparison of Sedimentary PAHs in the Rivers of Ammer (Germany) and Liangtan (China): Differences between Early- and Newly-Industrialized Countries. Environmental Science & Technology, 2013, 47, 701-709.	10.0	107
68	Source Determination for Subsurface Light Non-Aqueous Phase Liquid (LNAPL) Using Trimethylcyclopentane and Trimethylcyclohexane Isomer Ratios. Environmental Forensics, 2013, 14, 25-35.	2.6	3
69	Contaminant Mass Transfer from NAPLs to Water Studied in a Continuously Stirred Flow-Through Reactor. Journal of Environmental Engineering, ASCE, 2012, 138, 826-832.	1.4	7
70	Chemical changes in fluid composition due to CO2 injection in the Altmark gas field: preliminary results from batch experiments. Environmental Earth Sciences, 2012, 67, 385-394.	2.7	26
71	Oxygen Transfer in a Fluctuating Capillary Fringe. Vadose Zone Journal, 2012, 11, vzj2011.0056.	2.2	62
72	Experimental Investigation and Pore-Scale Modeling Interpretation of Compound-Specific Transverse Dispersion in Porous Media. Transport in Porous Media, 2012, 93, 347-362.	2.6	101

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73	Quantitative High-Resolution Mapping of Phenanthrene Sorption to Black Carbon Particles. Environmental Science & Technology, 2011, 45, 7314-7322.	10.0	31
74	Modeling the longâ€term and transient evolution of biogeochemical and isotopic signatures in coal tarâ€“contaminated aquifers. Water Resources Research, 2011, 47, .	4.2	23
75	Transverse mixing of conservative and reactive tracers in porous media: Quantification through the concepts of fluxâ€related and critical dilution indices. Water Resources Research, 2011, 47, .	4.2	53
76	Relevance of local compoundâ€specific transverse dispersion for conservative and reactive mixing in heterogeneous porous media. Water Resources Research, 2011, 47, .	4.2	53
77	Leaching standards for mineral recycling materials â€“ A harmonized regulatory concept for the upcoming German Recycling Decree. Waste Management, 2011, 31, 201-214.	7.4	35
78	A high-resolution non-invasive approach to quantify oxygen transport across the capillary fringe and within the underlying groundwater. Journal of Contaminant Hydrology, 2011, 122, 26-39.	3.3	63
79	Importance of heterocylic aromatic compounds in monitored natural attenuation for coal tar contaminated aquifers: A review. Journal of Contaminant Hydrology, 2011, 126, 181-194.	3.3	82
80	Transport of polycyclic aromatic hydrocarbons in highly vulnerable karst systems. Environmental Pollution, 2011, 159, 133-139.	7.5	69
81	Bioremediation of benzene-, MTBE- and ammonia-contaminated groundwater with pilot-scale constructed wetlands. Environmental Pollution, 2011, 159, 3769-3776.	7.5	56
82	Zum Stand der Verordnungsverfahren des Bundesministeriums fÃ¼r Umwelt, Naturschutz und Reaktorsicherheit im Bereich des Grundwasser- und Bodenschutzes und der Verwertung von mineralischen Ersatzbaustoffen â€“ Notwendigkeit der geplanten Mantelverordnung. Grundwasser, 2011, 16, 219-220.	1.4	0
83	Impact of major organophosphate pesticides used in agriculture to surface water and sediment quality (Southern Caspian Sea basin, Haraz River). Environmental Earth Sciences, 2011, 63, 873-883.	2.7	66
84	Contaminant Fate and Reactive Transport in Groundwater. , 2011, , 851-885.		3
85	Hydrogeologie unter einem D-A-CH â€¦. Grundwasser, 2010, 15, 87-87.	1.4	0
86	Reply to the comment by D. Guyonnet, on â€œComparison on percolation to batch and sequential leaching tests: Theory and dataâ€• Waste Management, 2010, 30, 1748-1751.	7.4	4
87	Evidence of Compound-Dependent Hydrodynamic and Mechanical Transverse Dispersion by Multitracer Laboratory Experiments. Environmental Science & Technology, 2010, 44, 688-693.	10.0	102
88	Simple analytical solutions for oxygen transfer into anaerobic groundwater. Water Resources Research, 2010, 46, .	4.2	13
89	Determination of leaching behaviour of polycyclic aromatic hydrocarbons from contaminated soil by column leaching test. Waste Management and Research, 2010, 28, 913-920.	3.9	22
90	Isotopic Fractionation by Transverse Dispersion: Flow-through Microcosms and Reactive Transport Modeling Study. Environmental Science & Technology, 2010, 44, 6167-6173.	10.0	78

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91	Mixing and transport of water in a karst catchment: a case study from precipitation via seepage to the spring. Hydrology and Earth System Sciences, 2009, 13, 285-292.	4.9	30
92	Enhanced biodegradation by hydraulic heterogeneities in petroleum hydrocarbon plumes. Journal of Contaminant Hydrology, 2009, 105, 56-68.	3.3	94
93	Quantification of biodegradation for o-xylene and naphthalene using first order decay models, Michaelisâ€“Menten kinetics and stable carbon isotopes. Journal of Contaminant Hydrology, 2009, 105, 118-130.	3.3	43
94	Integral quantification of contaminant mass flow rates in a contaminated aquifer: Conditioning of the numerical inversion of concentration-time series. Journal of Contaminant Hydrology, 2009, 106, 29-38.	3.3	10
95	Enhancement of dilution and transverse reactive mixing in porous media: Experiments and model-based interpretation. Journal of Contaminant Hydrology, 2009, 110, 130-142.	3.3	170
96	Comparison of steady-state and transient flow conditions on reactive transport of contaminants in the vadose soil zone. Journal of Hydrology, 2009, 369, 225-233.	5.4	33
97	Activation energies of phenanthrene desorption from carbonaceous materials: Column studies. Journal of Hydrology, 2009, 369, 234-240.	5.4	14
98	Two-dimensional flow-through microcosms â€“ Versatile test systems to study biodegradation processes in porous aquifers. Journal of Hydrology, 2009, 369, 284-295.	5.4	46
99	CCD camera image analysis for mapping solute concentrations in saturated porous media. Analytical and Bioanalytical Chemistry, 2009, 395, 1867-1876.	3.7	21
100	Comparison of percolation to batch and sequential leaching tests: Theory and data. Waste Management, 2009, 29, 2681-2688.	7.4	117
101	Model-based prediction of long-term leaching of contaminants from secondary materials in road constructions and noise protection dams. Waste Management, 2009, 29, 839-850.	7.4	39
102	Partition Behavior of Polycyclic Aromatic Hydrocarbons Between Aged Coal Tar and Water. Environmental Toxicology and Chemistry, 2009, 28, 1578-1584.	4.3	24
103	LFERs for Soil Organic Carbonâ^'Water Distribution Coefficients (K_{OC}) at Environmentally Relevant Sorbate Concentrations. Environmental Science & Technology, 2009, 43, 3094-3100.	10.0	64
104	Response to Comment on â€œEffects of Native Organic Material and Water on Sorption Properties of Reference Diesel Sootâ€• Environmental Science & Technology, 2009, 43, 5160-5160.	10.0	0
105	Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Soot. Environmental Science & Technology, 2009, 43, 3187-3193.	10.0	27
106	Characterization of Sorbent Properties of Soil Organic Matter and Carbonaceous Geosorbents Using n-Alkanes and Cycloalkanes as Molecular Probes. Environmental Science & Technology, 2009, 43, 393-400.	10.0	26
107	Sorption of alkylphenols on Ebro River sediments: Comparing isotherms with field observations in river water and sediments. Environmental Pollution, 2009, 157, 698-703.	7.5	49
108	Field scale characterization and modeling of contaminant release from a coal tar source zone. Journal of Contaminant Hydrology, 2008, 102, 120-139.	3.3	26

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109	Absorption or Adsorption? Insights from Molecular Probesn-Alkanes and Cycloalkanes into Modes of Sorption by Environmental Solid Matrices. Environmental Science & Technology, 2008, 42, 3989-3995.	10.0	37
110	Predicting organic carbonâ€“water partitioning of hydrophobic organic chemicals in soils and sediments based on water solubility. Water Research, 2008, 42, 3775-3780.	11.3	37
111	Occurrence of coal and coal-derived particle-bound polycyclic aromatic hydrocarbons (PAHs) in a river floodplain soil. Environmental Pollution, 2008, 151, 121-129.	7.5	78
112	Sorption of polycyclic aromatic hydrocarbons (PAHs) to carbonaceous materials in a river floodplain soil. Environmental Pollution, 2008, 156, 1357-1363.	7.5	37
113	The Role of Condensed Carbonaceous Materials on the Sorption of Hydrophobic Organic Contaminants in Subsurface Sediments. Environmental Science & Technology, 2008, 42, 1458-1464.	10.0	37
114	Compound-Specific Factors Influencing Sorption Nonlinearity in Natural Organic Matter. Environmental Science & Technology, 2008, 42, 5897-5903.	10.0	40
115	NUMERICAL MODELING OF HEAT STORAGE IN SOILS. Journal of Environmental Science for Sustainable Society, 2008, 2, 47-56.	0.1	0
116	Chapter 12 Use of ceramic dosimeters in water monitoring. Comprehensive Analytical Chemistry, 2007, , 279-293.	1.3	13
117	Indications for pedogenic formation of perylene in a terrestrial soil profile: Depth distribution and first results from stable carbon isotope ratios. Applied Geochemistry, 2007, 22, 2652-2663.	3.0	26
118	Gradients controlling natural attenuation of ammonium. Applied Geochemistry, 2007, 22, 2606-2617.	3.0	18
119	Effect of condensed organic matter on solvent extraction and aqueous leaching of polycyclic aromatic hydrocarbons in soils and sediments. Environmental Pollution, 2007, 148, 529-538.	7.5	34
120	Sorption/Desorption Reversibility of Phenanthrene in Soils and Carbonaceous Materials. Environmental Science & Technology, 2007, 41, 1186-1193.	10.0	35
121	Long-term atmospheric bulk deposition of polycyclic aromatic hydrocarbons (PAHs) in rural areas of Southern Germany. Atmospheric Environment, 2007, 41, 1315-1327.	4.1	66
122	Deposition, persistence and turnover of pollutants: First results from the EU project AquaTerra for selected river basins and aquifers. Science of the Total Environment, 2007, 376, 40-50.	8.0	59
123	Transverse dispersion of non-reactive tracers in porous media: A new nonlinear relationship to predict dispersion coefficients. Journal of Contaminant Hydrology, 2007, 92, 149-161.	3.3	64
124	Predictive modelling of dispersion controlled reactive plumes at the laboratory-scale. Journal of Contaminant Hydrology, 2007, 93, 304-315.	3.3	4
125	ACCUMULATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN RURAL SOILS BASED ON MASS BALANCES AT THE CATCHMENT SCALE. Environmental Toxicology and Chemistry, 2007, 26, 591.	4.3	35
126	NatÃ¼rlicher Abbau und RÃ¼ckhalt von Schadstoffen. , 2007, , 151-242.		2

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127	Chapter 5.6. Groundwater Risk Assessment at Contaminated Sites (GRACOS): Test Methods and Modelling Approaches. , 2007, , 291-315.		6
128	Enhanced mixing and reaction through flow focusing in heterogeneous porous media. Water Resources Research, 2006, 42, .	4.2	137
129	Determination of Transverse Dispersion Coefficients from Reactive Plume Lengths. Ground Water, 2006, 44, 212-221.	1.3	91
130	Numerical experiments and field results on the size of steady state plumes. Journal of Contaminant Hydrology, 2006, 85, 33-52.	3.3	58
131	Sorption of HOC in soils with carbonaceous contamination: Influence of organic-matter composition. Journal of Plant Nutrition and Soil Science, 2005, 168, 293-306.	1.9	42
132	Microbial activity in biogeochemical gradients - new aspects of research. Geobiology, 2005, 3, 229-233.	2.4	23
133	New challenges in biogeochemical gradient research. Eos, 2005, 86, 432.	0.1	2
134	Finiteness of steady state plumes. Water Resources Research, 2005, 41, .	4.2	61
135	Review of Field Methods for the Determination of the Tortuosity and Effective Gasâ€Phase Diffusivity in the Vadose Zone. Vadose Zone Journal, 2004, 3, 1240-1248.	2.2	55
136	Natural Attenuation-Untersuchungen ?Teerï¿½lproduktefabrik/ehemaliges Gaswerk Kehl?. Grundwasser, 2004, 9, 43-53.	1.4	3
137	Desorption Kinetics of Phenanthrene in Aquifer Material Lacks Hysteresis. Environmental Science & Technology, 2004, 38, 4169-4175.	10.0	63
138	Sorption kinetics during macropore transport of organic contaminants in soils: Laboratory experiments and analytical modeling. Water Resources Research, 2004, 40, .	4.2	30
139	Review of Field Methods for the Determination of the Tortuosity and Effective Gas-Phase Diffusivity in the Vadose Zone. Vadose Zone Journal, 2004, 3, 1240-1248.	2.2	29
140	Untersuchungen zum Langzeiteinsatz der In-situ-Aktivkohlefiltration zur Entfernung von organischen Schadstoffen aus Grundwasser. Grundwasser, 2003, 8, 23-31.	1.4	3
141	Quantification of mass fluxes and natural attenuation rates at an industrial site with a limited monitoring network: a case study. Journal of Contaminant Hydrology, 2003, 60, 97-121.	3.3	109
142	Models AND data; data AND models. Journal of Contaminant Hydrology, 2003, 65, 159-160.	3.3	1
143	Sorption/desorption kinetics of contaminants on mobile particles: Modeling and experimental evidence. Water Resources Research, 2003, 39, .	4.2	28
144	Field Trial of Contaminant Groundwater Monitoring:Â Comparing Time-Integrating Ceramic Dosimeters and Conventional Water Sampling. Environmental Science & Technology, 2003, 37, 1360-1364.	10.0	71

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145	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692-701.	2.2	24
146	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692-701.	2.2	9
147	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692.	2.2	2
148	NatÃ¼rlicher Abbau und RÃ¼ckhalt von Schadstoffen. , 2003, , 151-242.		1
149	Partitioning and pore-filling: Solubility-normalized sorption isotherms of nonionic organic contaminants in soils and sediments. Israel Journal of Chemistry, 2002, 42, 67-75.	2.3	12
150	Solubility-Normalized Combined Adsorption-Partitioning Sorption Isotherms for Organic Pollutants. Environmental Science & Technology, 2002, 36, 4689-4697.	10.0	216
151	Transverse vertical dispersion in groundwater and the capillary fringe. Journal of Contaminant Hydrology, 2002, 58, 111-128.	3.3	120
152	Time scales of organic contaminant dissolution from complex source zones: coal tar pools vs. blobs. Journal of Contaminant Hydrology, 2002, 59, 45-66.	3.3	127
153	Sanierungsforschung in regional kontaminierten Aquiferen. Grundwasser, 2002, 7, 133-133.	1.4	11
154	New modeling paradigms for the sorption of hydrophobic organic chemicals to heterogeneous carbonaceous matter in soils, sediments, and rocks. Advances in Water Resources, 2002, 25, 985-1016.	3.8	332
155	Sanierungsforschung in regional kontaminierten Aquiferen (SAFIRA) - 1. Information zum Forschungsschwerpunkt am Standort Bitterfeld. Grundwasser, 2001, 6, 113-122.	1.4	22
156	Tracer diffusion coefficients in sedimentary rocks: correlation to porosity and hydraulic conductivity. Journal of Contaminant Hydrology, 2001, 53, 85-100.	3.3	312
157	Occurrence and attenuation of specific organic compounds in the groundwater plume at a former gasworks site. Journal of Contaminant Hydrology, 2001, 53, 407-427.	3.3	76
158	Experimental Investigations of Oxygenated Gasoline Dissolution. Journal of Environmental Engineering, ASCE, 2001, 127, 208-216.	1.4	21
159	Impacts of Heterogeneous Organic Matter on Phenanthrene Sorption:Â Equilibrium and Kinetic Studies with Aquifer Material. Environmental Science & Technology, 2000, 34, 406-414.	10.0	185
160	Influence of petrographic composition/organic matter distribution of fluvial aquifer sediments on the sorption of hydrophobic contaminants. Sedimentary Geology, 1999, 129, 311-325.	2.1	27
161	Impact of grain scale heterogeneity on slow sorption kinetics. Environmental Toxicology and Chemistry, 1999, 18, 1673-1678.	4.3	54
162	Organic Matter Facies and Equilibrium Sorption of Phenanthrene. Environmental Science & Technology, 1999, 33, 1637-1644.	10.0	209

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163	Long Term Sorption Kinetics of Phenanthrene in Aquifer Materials. Environmental Science & Technology, 1999, 33, 1645-1651.	10.0	118
164	IMPACT OF GRAIN SCALE HETEROGENEITY ON SLOW SORPTION KINETICS. Environmental Toxicology and Chemistry, 1999, 18, 1673.	4.3	8
165	Schadstoffemission durch Desorption und LÃ¶sung standortspezifischer organischer Verbindungen im Schadenszentrum, Testfeld SÃ¼d. Grundwasser, 1998, 3, 167-174.	1.4	3
166	Diffusion in Natural Porous Media: Contaminant Transport, Sorption/Desorption and Dissolution Kinetics. Topics in Environmental Fluid Mechanics, 1998, , .	0.5	233
167	GefÃhrdung des Grundwassers durch Freisetzung organischer Schadstoffe: Methoden zur Berechnung der in-situ-Schadstoffkonzentrationen. Grundwasser, 1997, 2, 157-166.	1.4	8
168	Desorption of trichloroethylene in aquifer material: rate limitation at the grain scale. Environmental Science & Technology, 1993, 27, 2360-2366.	10.0	149
169	Influence of organic matter from soils and sediments from various origins on the sorption of some chlorinated aliphatic hydrocarbons: implications on Koc correlations. Environmental Science & Technology, 1990, 24, 1687-1693.	10.0	428