Peter Grathwohl

List of Publications by Year in descending order

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169 papers

8,383 citations

52 h-index 84 g-index

190 all docs

190 docs citations

times ranked

190

6589 citing authors

#	Article	IF	Citations
1	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 & Environmental & Environmental & Environmental & Environmental & Environmental	10.0	428
2	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
3	Tracer diffusion coefficients in sedimentary rocks: correlation to porosity and hydraulic conductivity. Journal of Contaminant Hydrology, 2001, 53, 85-100.	3.3	312
4	Diffusion in Natural Porous Media: Contaminant Transport, Sorption/Desorption and Dissolution Kinetics. Topics in Environmental Fluid Mechanics, 1998, , .	0.5	233
5	Solubility-Normalized Combined Adsorption-Partitioning Sorption Isotherms for Organic Pollutants. Environmental Science & Envi	10.0	216
6	Organic Matter Facies and Equilibrium Sorption of Phenanthrene. Environmental Science & Emp; Technology, 1999, 33, 1637-1644.	10.0	209
7	Impacts of Heterogeneous Organic Matter on Phenanthrene Sorption:Â Equilibrium and Kinetic Studies with Aquifer Material. Environmental Science & Eamp; Technology, 2000, 34, 406-414.	10.0	185
8	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
9	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
10	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
11	Desorption of trichloroethylene in aquifer material: rate limitation at the grain scale. Environmental Science & Environmental	10.0	149
12	Enhanced mixing and reaction through flow focusing in heterogeneous porous media. Water Resources Research, 2006, 42, .	4.2	137
13	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
14	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
15	Transverse vertical dispersion in groundwater and the capillary fringe. Journal of Contaminant Hydrology, 2002, 58, 111-128.	3.3	120
16	Long Term Sorption Kinetics of Phenanthrene in Aquifer Materials. Environmental Science & Emp; Technology, 1999, 33, 1645-1651.	10.0	118
17	Shift in Mass Transfer of Wastewater Contaminants from Microplastics in the Presence of Dissolved Substances. Environmental Science & Environmental Sc	10.0	118
18	Comparison of percolation to batch and sequential leaching tests: Theory and data. Waste Management, 2009, 29, 2681-2688.	7.4	117

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19	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
20	Comparison of Sedimentary PAHs in the Rivers of Ammer (Germany) and Liangtan (China): Differences between Early- and Newly-Industrialized Countries. Environmental Science & Environmental Science, 2013, 47, 701-709.	10.0	107
21	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
22	Evidence of Compound-Dependent Hydrodynamic and Mechanical Transverse Dispersion by Multitracer Laboratory Experiments. Environmental Science & Experiments. Environmental Science & Experiments. Environmental Science & Experiments. Environmental Science & Experiments.	10.0	102
23	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
24	Enhanced biodegradation by hydraulic heterogeneities in petroleum hydrocarbon plumes. Journal of Contaminant Hydrology, 2009, 105, 56-68.	3.3	94
25	Determination of Transverse Dispersion Coefficients from Reactive Plume Lengths. Ground Water, 2006, 44, 212-221.	1.3	91
26	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
27	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
28	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
29	Isotopic Fractionation by Transverse Dispersion: Flow-through Microcosms and Reactive Transport Modeling Study. Environmental Science & Echnology, 2010, 44, 6167-6173.	10.0	78
30	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
31	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
32	Soil carbon, multiple benefits. Environmental Development, 2015, 13, 33-38.	4.1	75
33	Field Trial of Contaminant Groundwater Monitoring:Â Comparing Time-Integrating Ceramic Dosimeters and Conventional Water Sampling. Environmental Science & Environmental Science & 2003, 37, 1360-1364.	10.0	71
34	Catchments as reactors: a comprehensive approach for water fluxes and solute turnover. Environmental Earth Sciences, 2013, 69, 317-333.	2.7	71
35	Transport of polycyclic aromatic hydrocarbons in highly vulnerable karst systems. Environmental Pollution, 2011, 159, 133-139.	7. 5	69
36	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

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37	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
38	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
39	LFERs for Soil Organic Carbonâ 'Water Distribution Coefficients (<i>K</i> _{OC}) at Environmentally Relevant Sorbate Concentrations. Environmental Science & Environmentally Relevant Sorbate Concentrations. Environmental Science & Environme	10.0	64
40	Desorption Kinetics of Phenanthrene in Aquifer Material Lacks Hysteresis. Environmental Science & Envi	10.0	63
41	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
42	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
43	Oxygen Transfer in a Fluctuating Capillary Fringe. Vadose Zone Journal, 2012, 11, vzj2011.0056.	2.2	62
44	Finiteness of steady state plumes. Water Resources Research, 2005, 41, .	4.2	61
45	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
46	Integrated monitoring of particle associated transport of PAHs in contrasting catchments. Environmental Pollution, 2013, 172, 155-162.	7. 5	59
47	Numerical experiments and field results on the size of steady state plumes. Journal of Contaminant Hydrology, 2006, 85, 33-52.	3.3	58
48	Bioremediation of benzene-, MTBE- and ammonia-contaminated groundwater with pilot-scale constructed wetlands. Environmental Pollution, 2011, 159, 3769-3776.	7.5	56
49	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
50	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
51	Flow-through experiments on water–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
52	Impact of grain scale heterogeneity on slow sorption kinetics. Environmental Toxicology and Chemistry, 1999, 18, 1673-1678.	4.3	54
53	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
54	Relevance of local compoundâ€specific transverse dispersion for conservative and reactive mixing in heterogeneous porous media. Water Resources Research, 2011, 47, .	4.2	53

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55	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
56	Experimental Evidence of Helical Flow in Porous Media. Physical Review Letters, 2015, 115, 194502.	7.8	52
57	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
58	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
59	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
60	Two-dimensional flow-through microcosms – Versatile test systems to study biodegradation processes in porous aquifers. Journal of Hydrology, 2009, 369, 284-295.	5.4	46
61	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
62	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
63	Groundwater temperature evolution in the subsurface urban heat island of Cologne, Germany. Hydrological Processes, 2015, 29, 965-978.	2.6	45
64	Quantification of biodegradation for o-xylene and naphthalene using first order decay models, Michaelis–Menten kinetics and stable carbon isotopes. Journal of Contaminant Hydrology, 2009, 105, 118-130.	3.3	43
65	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
66	Compound-Specific Factors Influencing Sorption Nonlinearity in Natural Organic Matter. Environmental Science & Environmental S	10.0	40
67	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
68	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
69	Absorption or Adsorption? Insights from Molecular Probes <i>n</i> h>-Alkanes and Cycloalkanes into Modes of Sorption by Environmental Solid Matrices. Environmental Science & En	10.0	37
70	Predicting organic carbon–water partitioning of hydrophobic organic chemicals in soils and sediments based on water solubility. Water Research, 2008, 42, 3775-3780.	11.3	37
71	Sorption of polycyclic aromatic hydrocarbons (PAHs) to carbonaceous materials in a river floodplain soil. Environmental Pollution, 2008, 156, 1357-1363.	7. 5	37
72	The Role of Condensed Carbonaceous Materials on the Sorption of Hydrophobic Organic Contaminants in Subsurface Sediments. Environmental Science & Environmental Science & 2008, 42, 1458-1464.	10.0	37

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73	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
74	Long-term behavior of PFAS in contaminated agricultural soils in Germany. Journal of Contaminant Hydrology, 2021, 241, 103812.	3.3	37
75	Sorption/Desorption Reversibility of Phenanthrene in Soils and Carbonaceous Materials. Environmental Science & Environmental S	10.0	35
76	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
77	Leaching standards for mineral recycling materials – A harmonized regulatory concept for the upcoming German Recycling Decree. Waste Management, 2011, 31, 201-214.	7.4	35
78	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
79	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
80	Quantitative High-Resolution Mapping of Phenanthrene Sorption to Black Carbon Particles. Environmental Science & Environmental	10.0	31
81	Sorption kinetics during macropore transport of organic contaminants in soils: Laboratory experiments and analytical modeling. Water Resources Research, 2004, 40, .	4.2	30
82	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
83	Diffusive–Dispersive and Reactive Fronts in Porous Media: Iron(II) Oxidation at the Unsaturated–Saturated Interface. Vadose Zone Journal, 2015, 14, 1-14.	2.2	30
84	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
85	Microplastic–Contaminant Interactions: Influence of Nonlinearity and Coupled Mass Transfer. Environmental Toxicology and Chemistry, 2019, 38, 1635-1644.	4.3	29
86	Sorption/desorption kinetics of contaminants on mobile particles: Modeling and experimental evidence. Water Resources Research, 2003, 39, .	4.2	28
87	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
88	Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Soot. Environmental Science & Environm	10.0	27
89	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
90	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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91	Characterization of Sorbent Properties of Soil Organic Matter and Carbonaceous Geosorbents Using <i>n</i> -Alkanes and Cycloalkanes as Molecular Probes. Environmental Science & Environmental Science	10.0	26
92	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
93	Bulk metal concentrations versus total suspended solids in rivers: Time-invariant & mp; catchment-specific relationships. PLoS ONE, 2018, 13, e0191314.	2.5	26
94	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
95	Anaerobic Neutrophilic Pyrite Oxidation by a Chemolithoautotrophic Nitrate-Reducing Iron(II)-Oxidizing Culture Enriched from a Fractured Aquifer. Environmental Science & Emp; Technology, 2021, 55, 9876-9884.	10.0	25
96	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692-701.	2.2	24
97	Partition Behavior of Polycyclic Aromatic Hydrocarbons Between Aged Coal Tar and Water. Environmental Toxicology and Chemistry, 2009, 28, 1578-1584.	4.3	24
98	Microbial activity in biogeochemical gradients - new aspects of research. Geobiology, 2005, 3, 229-233.	2.4	23
99	Modeling the longâ€ŧerm and transient evolution of biogeochemical and isotopic signatures in coal tar–contaminated aquifers. Water Resources Research, 2011, 47, .	4.2	23
100	Sanierungsforschung in regional kontaminierten Aquiferen (SAFIRA) - 1. Information zum Forschungsschwerpunkt am Standort Bitterfeld. Grundwasser, 2001, 6, 113-122.	1.4	22
101	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
102	Impact of Heterogeneity on Oxygen Transfer in a Fluctuating Capillary Fringe. Ground Water, 2015, 53, 57-70.	1.3	22
103	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
104	Experimental Investigations of Oxygenated Gasoline Dissolution. Journal of Environmental Engineering, ASCE, 2001, 127, 208-216.	1.4	21
105	CCD camera image analysis for mapping solute concentrations in saturated porous media. Analytical and Bioanalytical Chemistry, 2009, 395, 1867-1876.	3.7	21
106	On equilibration of pore water in column leaching tests. Waste Management, 2014, 34, 908-918.	7.4	21
107	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
108	Gradients controlling natural attenuation of ammonium. Applied Geochemistry, 2007, 22, 2606-2617.	3.0	18

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109	Oxygen Transfer in a Fluctuating Capillary Fringe: Impact of Microbial Respiratory Activity. Vadose Zone Journal, 2015, 14, 1-14.	2.2	18
110	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
111	Evolution of carbon isotope signatures during reactive transport of hydrocarbons in heterogeneous aquifers. Journal of Contaminant Hydrology, 2015, 174, 10-27.	3.3	16
112	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
113	Activation energies of phenanthrene desorption from carbonaceous materials: Column studies. Journal of Hydrology, 2009, 369, 234-240.	5.4	14
114	Modeling long-term uptake and re-volatilization of semi-volatile organic compounds (SVOCs) across the soil–atmosphere interface. Science of the Total Environment, 2015, 538, 789-801.	8.0	14
115	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
116	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
117	Chapter 12 Use of ceramic dosimeters in water monitoring. Comprehensive Analytical Chemistry, 2007, , 279-293.	1.3	13
118	Simple analytical solutions for oxygen transfer into anaerobic groundwater. Water Resources Research, 2010, 46, .	4.2	13
119	Experimental Sensitivity Analysis of Oxygen Transfer in the Capillary Fringe. Ground Water, 2014, 52, 37-49.	1.3	13
120	Experimental investigation of transverse mixing in porous media under helical flow conditions. Physical Review E, 2016, 94, 013113.	2.1	13
121	德国西å⊷部è£,éš™å²©æº¶å«æ°´å±,地下水补给过程ä¸çš"ç¡é…,ç›å½'宿. Hydrogeology Journal, 202	1,229, 115	53±B171.
122	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
123	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
124	Sanierungsforschung in regional kontaminierten Aquiferen. Grundwasser, 2002, 7, 133-133.	1.4	11
125	High-resolution aquifer analog of fluvial–aeolian sediments of the Guarani aquifer system. Environmental Earth Sciences, 2014, 71, 3081-3094.	2.7	11
126	Modeling short-term concentration fluctuations of semi-volatile pollutants in the soil–plant–atmosphere system. Science of the Total Environment, 2016, 569-570, 159-167.	8.0	11

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127	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
128	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
129	Determination of the subcooled liquid solubilities of PAHs in partitioning batchÂexperiments. Geoscience Frontiers, 2013, 4, 123-126.	8.4	10
130	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
131	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692-701.	2.2	9
132	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
133	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
134	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
135	GefĤrdung des Grundwassers durch Freisetzung organischer Schadstoffe: Methoden zur Berechnung der in-situ-Schadstoffkonzentrationen. Grundwasser, 1997, 2, 157-166.	1.4	8
136	IMPACT OF GRAIN SCALE HETEROGENEITY ON SLOW SORPTION KINETICS. Environmental Toxicology and Chemistry, 1999, 18, 1673.	4.3	8
137	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
138	Dilution of PAHs loadings of particulate matter in air, dust and rivers in urban areas: A comparative study (Tehran megacity, Iran and city of Tý bingen, SW-Germany). Science of the Total Environment, 2022, 806, 151268.	8.0	7
139	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
140	Particle-Facilitated Transport of Lindane in Water-Saturated Tropical Lateritic Porous Media. Journal of Environmental Quality, 2014, 43, 1392-1403.	2.0	6
141	Chapter 5.6. Groundwater Risk Assessment at Contaminated Sites (GRACOS): Test Methods and Modelling Approaches. , 2007, , 291-315.		6
142	Isosteric heats of sorption and desorption of phenanthrene in soils and carbonaceous materials. Environmental Pollution, 2013, 175, 110-116.	7.5	5
143	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
144	Mass Transfer Principles in Column Percolation Tests: Initial Conditions and Tailing in Heterogeneous Materials. Materials, 2021, 14, 4708.	2.9	5

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145	Predictive modelling of dispersion controlled reactive plumes at the laboratory-scale. Journal of Contaminant Hydrology, 2007, 93, 304-315.	3.3	4
146	Reply to the comment by D. Guyonnet, on "Comparison on percolation to batch and sequential leaching tests: Theory and data― Waste Management, 2010, 30, 1748-1751.	7.4	4
147	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
148	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
149	Nitrate reduction potential of a fractured Middle Triassic carbonate aquifer in Southwest Germany. Hydrogeology Journal, 2022, 30, 163-180.	2.1	4
150	Schadstoffemission durch Desorption und LÃ \P sung standortspezifischer organischer Verbindungen im Schadenszentrum, Testfeld SÃ $\frac{1}{4}$ d. Grundwasser, 1998, 3, 167-174.	1.4	3
151	Untersuchungen zum Langzeiteinsatz der In-situ-Aktivkohlefiltration zur Entfernung von organischen Schadstoffen aus Grundwasser. Grundwasser, 2003, 8, 23-31.	1.4	3
152	Natural Attenuation-Untersuchungen ?Teer�lproduktefabrik/ehemaliges Gaswerk Kehl?. Grundwasser, 2004, 9, 43-53.	1.4	3
153	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
154	Managing collaborative research data for integrated, interdisciplinary environmental research. Earth Science Informatics, 2020, 13, 641-654.	3.2	3
155	Contaminant Fate and Reactive Transport in Groundwater. , 2011, , 851-885.		3
156	Long-Term Leaching Behavior of Organic and Inorganic Pollutants after Wet Processing of Solid Waste Materials. Materials, 2022, 15, 858.	2.9	3
157	New challenges in biogeochemical gradient research. Eos, 2005, 86, 432.	0.1	2
158	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
159	Natürlicher Abbau und Rückhalt von Schadstoffen., 2007,, 151-242.		2
160	Volatile Organic Compounds Volatilization from Multicomponent Organic Liquids and Diffusion in Unsaturated Porous Media. Vadose Zone Journal, 2003, 2, 692.	2.2	2
161	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
162	Models AND data; data AND models. Journal of Contaminant Hydrology, 2003, 65, 159-160.	3.3	1

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163	WESS: an interdisciplinary approach to catchment research. Environmental Earth Sciences, 2013, 69, 313-315.	2.7	1
164	Natürlicher Abbau und Rückhalt von Schadstoffen., 2003,, 151-242.		1
165	Response to Comment on "Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Soot― Environmental Science & Environmental Science & Reference Diesel Soot― Environmental Science & En	10.0	0
166	Hydrogeologie unter einem D-A-CH …. Grundwasser, 2010, 15, 87-87.	1.4	0
167	Zum Stand der Verordnungsverfahren des Bundesministeriums für Umwelt, Naturschutz und Reaktorsicherheit im Bereich des Grundwasser- und Bodenschutzes und der Verwertung von mineralischen Ersatzbaustoffen – Notwendigkeit der geplanten Mantelverordnung. Grundwasser, 2011. 16. 219-220.	1.4	0
168	Redox hydrogeochemistry of organic rich floodplain exemplified by Ammer river. E3S Web of Conferences, 2019, 98, 09014.	0.5	0
169	NUMERICAL MODELING OF HEAT STORAGE IN SOILS. Journal of Environmental Science for Sustainable Society, 2008, 2, 47-56.	0.1	0