Thilo Hofmann

List of Publications by Citations

183 papers	8,438 citations	47 h-index	87 g-index
195 ext. papers	10,145 ext. citations	7 avg, IF	6.66 L-index

#	Paper	IF	Citations
183	Nanopesticide research: current trends and future priorities. *Environment International*, **2014**, 63, 224-35	12.9	444
182	Nanoparticles: structure, properties, preparation and behaviour in environmental media. *Ecotoxicology*, **2008**, 17, 326-43	2.9	433
181	Nanopesticides: State of Knowledge, Environmental Fate, and Exposure Modeling. *Critical Reviews in Environmental Science and Technology*, **2013**, 43, 1823-1867	11.1	312
180	Release of TiO2 nanoparticles from sunscreens into surface waters: a one-year survey at the old Danube recreational Lake. *Environmental Science & Technology*, **2014**, 48, 5415-22	10.3	283
179	Sorption of non-polar organic compounds by micro-sized plastic particles in aqueous solution. *Environmental Pollution*, **2016**, 214, 194-201	9.3	282
178	Tire wear particles in the aquatic environment - A review on generation, analysis, occurrence, fate and effects. *Water Research*, **2018**, 139, 83-100	12.5	248
177	Algal testing of titanium dioxide nanoparticles--testing considerations, inhibitory effects and modification of cadmium bioavailability. *Toxicology*, **2010**, 269, 190-7	4.4	247
176	Sorption of organic compounds by aged polystyrene microplastic particles. *Environmental Pollution*, **2018**, 236, 218-225	9.3	223
175	Separation and characterization of nanoparticles in complex food and environmental samples by field-flow fractionation. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 425-436	14.6	221
174	Characterization and source identification of polycyclic aromatic hydrocarbons (PAHs) in river bank soils. *Chemosphere*, **2008**, 72, 1594-1601	8.4	219
173	Sorption of ionizable and ionic organic compounds to biochar, activated carbon and other carbonaceous materials. *Water Research*, **2017**, 124, 673-692	12.5	211
172	Nanostructured TiO2: transport behavior and effects on aquatic microbial communities under environmental conditions. *Environmental Science & Technology*, **2009**, 43, 8098-104	10.3	198
171	Native polycyclic aromatic hydrocarbons (PAH) in coals - a hardly recognized source of environmental contamination. *Science of the Total Environment*, **2009**, 407, 2461-73	10.2	177
170	Commercial titanium dioxide nanoparticles in both natural and synthetic water: comprehensive multidimensional testing and prediction of aggregation behavior. *Environmental Science & Technology*, **2011**, 45, 10045-52	10.3	162
169	Polyethylene microplastics influence the transport of organic contaminants in soil. *Science of the Total Environment*, **2019**, 657, 242-247	10.2	113
168	Estimating the relevance of engineered carbonaceous nanoparticle facilitated transport of hydrophobic organic contaminants in porous media. *Environmental Pollution*, **2009**, 157, 1117-26	9.3	104
167	Microplastic Exposure Assessment in Aquatic Environments: Learning from Similarities and Differences to Engineered Nanoparticles. *Environmental Science & Technology*, **2017**, 51, 2499-2507	10.3	103

166	The composition of bacterial communities associated with plastic biofilms differs between different polymers and stages of biofilm succession. *PLoS ONE*, **2019**, 14, e0217165	3.7	97
165	Single-particle multi-element fingerprinting (spMEF) using inductively-coupled plasma time-of-flight mass spectrometry (ICP-TOFMS) to identify engineered nanoparticles against the elevated natural background in soils. *Environmental Science: Nano*, **2017**, 4, 307-314	7.1	96
164	Measuring and modeling adsorption of PAHs to carbon nanotubes over a six order of magnitude wide concentration range. *Environmental Science & Technology*, **2011**, 45, 6011-7	10.3	96
163	Effect of pH and stream order on iron and arsenic speciation in boreal catchments. *Environmental Science & Technology*, **2013**, 47, 7120-8	10.3	93
162	Spot the difference: engineered and natural nanoparticles in the environment--release, behavior, and fate. *Angewandte Chemie - International Edition*, **2014**, 53, 12398-419	16.4	91
161	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. *Nature Food*, **2020**, 1, 416-425	14.4	90
160	Using FlFFF and aTEM to determine trace metal–nanoparticle associations in riverbed sediment. *Environmental Chemistry*, **2010**, 7, 82	3.2	86
159	Influence of surface functionalization and particle size on the aggregation kinetics of engineered nanoparticles. *Chemosphere*, **2012**, 87, 918-24	8.4	84
158	Assessment of the physico-chemical behavior of titanium dioxide nanoparticles in aquatic environments using multi-dimensional parameter testing. *Environmental Pollution*, **2010**, 158, 3472-81	9.3	84
157	Nanosized iron oxide colloids strongly enhance microbial iron reduction. *Applied and Environmental Microbiology*, **2010**, 76, 184-9	4.8	82
156	Relevance of peat-draining rivers for the riverine input of dissolved iron into the ocean. *Science of the Total Environment*, **2010**, 408, 2402-8	10.2	79
155	Where is the nano? Analytical approaches for the detection and quantification of TiO2 engineered nanoparticles in surface waters. *Environmental Science: Nano*, **2018**, 5, 313-326	7.1	77
154	Natural organic matter concentration and hydrochemistry influence aggregation kinetics of functionalized engineered nanoparticles. *Environmental Science & Technology*, **2013**, 47, 4113-20	10.3	76
153	Biochar total surface area and total pore volume determined by N and CO physisorption are strongly influenced by degassing temperature. *Science of the Total Environment*, **2017**, 580, 770-775	10.2	74
152	The role of nanominerals and mineral nanoparticles in the transport of toxic trace metals: Field-flow fractionation and analytical TEM analyses after nanoparticle isolation and density separation. *Geochimica Et Cosmochimica Acta*, **2013**, 102, 213-225	5.5	73
151	Detection of Engineered Copper Nanoparticles in Soil Using Single Particle ICP-MS. *International Journal of Environmental Research and Public Health*, **2015**, 12, 15756-68	4.6	73
150	Occurrence of coal and coal-derived particle-bound polycyclic aromatic hydrocarbons (PAHs) in a river floodplain soil. *Environmental Pollution*, **2008**, 151, 121-9	9.3	73
149	Legal and practical challenges in classifying nanomaterials according to regulatory definitions. *Nature Nanotechnology*, **2019**, 14, 208-216	28.7	72

148	Humic acid adsorption and surface charge effects on schwertmannite and goethite in acid sulphate waters. *Water Research*, **2008**, 42, 2051-60	12.5	70
147	Carbonate minerals in porous media decrease mobility of polyacrylic acid modified zero-valent iron nanoparticles used for groundwater remediation. *Environmental Pollution*, **2013**, 179, 53-60	9.3	67
146	The potential of TiO2 nanoparticles as carriers for cadmium uptake in Lumbriculus variegatus and Daphnia magna. *Aquatic Toxicology*, **2012**, 118-119, 1-8	5.1	66
145	Distribution of polycyclic aromatic hydrocarbons (PAHs) in floodplain soils of the Mosel and Saar River. *Journal of Soils and Sediments*, **2007**, 7, 216-222	3.4	65
144	Vulnerability of drinking water supplies to engineered nanoparticles. *Water Research*, **2016**, 96, 255-79	12.5	63
143	First steps towards a generic sample preparation scheme for inorganic engineered nanoparticles in a complex matrix for detection, characterization, and quantification by asymmetric flow-field flow fractionation coupled to multi-angle light scattering and ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2015**, 30, 1286-1296	3.7	60
142	River-derived humic substances as iron chelators in seawater. *Marine Chemistry*, **2015**, 174, 85-93	3.7	55
141	Impacts of (Nano)formulations on the Fate of an Insecticide in Soil and Consequences for Environmental Exposure Assessment. *Environmental Science & Technology*, **2016**, 50, 10960-10967	10.3	54
140	Influence of compost and biochar on microbial communities and the sorption/degradation of PAHs and NSO-substituted PAHs in contaminated soils. *Journal of Hazardous Materials*, **2018**, 345, 107-113	12.8	54
139	Dispersion state and humic acids concentration-dependent sorption of pyrene to carbon nanotubes. *Environmental Science & Technology*, **2012**, 46, 7166-73	10.3	53
138	Environmental fate of nanopesticides: durability, sorption and photodegradation of nanoformulated clothianidin. *Environmental Science: Nano*, **2018**, 5, 882-889	7.1	49
137	Deep Learning Neural Network Approach for Predicting the Sorption of Ionizable and Polar Organic Pollutants to a Wide Range of Carbonaceous Materials. *Environmental Science & Technology*, **2020**, 54, 4583-4591	10.3	48
136	Using FLOWFFF and HPSEC to determine trace metal-colloid associations in wetland runoff. *Water Research*, **2013**, 47, 2757-69	12.5	47
135	The influence of pH on iron speciation in podzol extracts: iron complexes with natural organic matter, and iron mineral nanoparticles. *Science of the Total Environment*, **2013**, 461-462, 108-16	10.2	46
134	Mobility enhancement of nanoscale zero-valent iron in carbonate porous media through co-injection of polyelectrolytes. *Water Research*, **2014**, 50, 70-9	12.5	46
133	Nanoscale lignin particles as sources of dissolved iron to the ocean. *Global Biogeochemical Cycles*, **2012**, 26,	5.9	46
132	How redox conditions and irradiation affect sorption of PAHs by dispersed fullerenes (nC60). *Environmental Science & Technology*, **2013**, 47, 6935-42	10.3	43
131	HCHs and DDTs in sediment-dwelling animals from the Yangtze Estuary, China. *Chemosphere*, **2006**, 62, 381-9	8.4	43

130	Identification of carbonaceous geosorbents for PAHs by organic petrography in river floodplain soils. *Chemosphere*, **2008**, 71, 2158-67	8.4	42
129	Variations in concentrations and compositions of polycyclic aromatic hydrocarbons (PAHs) in coals related to the coal rank and origin. *Environmental Pollution*, **2011**, 159, 2690-7	9.3	41
128	Occurrence and behaviour of selected hydrophobic alkylphenolic compounds in the Danube River. *Environmental Pollution*, **2009**, 157, 2759-68	9.3	41
127	Influence of carrier solution ionic strength and injected sample load on retention and recovery of natural nanoparticles using Flow Field-Flow Fractionation. *Journal of Chromatography A*, **2011**, 1218, 6763-73	4.5	40
126	Sorption of organic substances to tire wear materials: Similarities and differences with other types of microplastic. *TrAC - Trends in Analytical Chemistry*, **2019**, 113, 392-401	14.6	40
125	Analysing the fate of nanopesticides in soil and the applicability of regulatory protocols using a polymer-based nanoformulation of atrazine. *Environmental Science and Pollution Research*, **2014**, 21, 11699-707	5.1	39
124	Colloid-associated export of arsenic in stream water during stormflow events. *Chemical Geology*, **2013**, 352, 81-91	4.2	39
123	Vertical distribution and speciation of trace metals in weathering flotation residues of a zinc/lead sulfide mine. *Journal of Environmental Quality*, **2007**, 36, 61-9	3.4	39
122	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. *Environmental Science: Nano*, **2019**, 6, 1283-1302	7.1	38
121	Cytotoxicity of Biochar: A Workplace Safety Concern?. *Environmental Science and Technology Letters* , **2017**, 4, 362-366	11	37
120	Ageing of synthetic and natural schwertmannites at pH 2–8. *Clay Minerals*, **2008**, 43, 437-448	1.3	37
119	Pharmaceutical pollution of the world's rivers.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	37
118	Silver and gold nanoparticle separation using asymmetrical flow-field flow fractionation: Influence of run conditions and of particle and membrane charges. *Journal of Chromatography A*, **2016**, 1440, 150-159	4.5	36
117	Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments. *Environmental Science: Nano*, **2020**, 7, 351-367	7.1	35
116	Sorption of polycyclic aromatic hydrocarbons (PAHs) to carbonaceous materials in a river floodplain soil. *Environmental Pollution*, **2008**, 156, 1357-63	9.3	35
115	Predicting the Sorption of Aromatic Acids to Noncarbonized and Carbonized Sorbents. *Environmental Science & Technology*, **2016**, 50, 3641-8	10.3	34
114	Colloid facilitated transport of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs) to the groundwater at Ma Da area, Vietnam. *Environmental Science and Pollution Research*, **2007**, 14, 223-4	5.1	34
113	Environmental transformation of natural and engineered carbon nanoparticles and implications for the fate of organic contaminants. *Environmental Science: Nano*, **2018**, 5, 2500-2518	7.1	34

112	Quantifying the influence of humic acid adsorption on colloidal microsphere deposition onto iron-oxide-coated sand. *Environmental Pollution*, **2010**, 158, 3498-506	9.3	33
111	Production of reference materials for the detection and size determination of silica nanoparticles in tomato soup. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 3895-907	4.4	32
110	Bioavailability and toxicity of pyrene in soils upon biochar and compost addition. *Science of the Total Environment*, **2017**, 595, 132-140	10.2	30
109	Asymmetrical Flow-Field-Flow Fractionation coupled with inductively coupled plasma mass spectrometry for the analysis of gold nanoparticles in the presence of natural nanoparticles. *Journal of Chromatography A*, **2014**, 1372C, 204-211	4.5	30
108	Feasibility of the development of reference materials for the detection of Ag nanoparticles in food: neat dispersions and spiked chicken meat. *Accreditation and Quality Assurance*, **2015**, 20, 3-16	0.7	29
107	Natural, anthropogenic and fossil organic matter in river sediments and suspended particulate matter: a multi-molecular marker approach. *Science of the Total Environment*, **2011**, 409, 905-19	10.2	29
106	PAH desorption from river floodplain soils using supercritical fluid extraction. *Environmental Pollution*, **2008**, 156, 745-52	9.3	29
105	Identifying sources of polycyclic aromatic hydrocarbons (PAHs) in soils: distinguishing point and non-point sources using an extended PAH spectrum and n-alkanes. *Journal of Soils and Sediments*, **2008**, 8, 312-322	3.4	29
104	Comparability of and Alternatives to Leaching Tests for the Assessment of the Emission of Inorganic Soil Contamination (11 pp). *Journal of Soils and Sediments*, **2006**, 6, 102-112	3.4	29
103	TiO2 nanomaterial detection in calcium rich matrices by spICPMS. A matter of resolution and treatment. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 1400-1411	3.7	27
102	Physicochemical characterization of titanium dioxide pigments using various techniques for size determination and asymmetric flow field flow fractionation hyphenated with inductively coupled plasma mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 6679-91	4.4	26
101	Influence of ionic strength and pH on the limitation of latex microsphere deposition sites on iron-oxide coated sand by humic acid. *Environmental Pollution*, **2011**, 159, 1896-904	9.3	26
100	Tetrachloroferrate containing ionic liquids: Magnetic- and aggregation behavior. *Inorganic Chemistry Communication*, **2010**, 13, 1485-1488	3.1	25
99	Sorption behavior of carbon nanotubes: changes induced by functionalization, sonication and natural organic matter. *Science of the Total Environment*, **2014**, 497-498, 133-138	10.2	24
98	Sensitivity towards the GRP78 inhibitor KP1339/IT-139 is characterized by apoptosis induction via caspase 8 upon disruption of ER homeostasis. *Cancer Letters*, **2017**, 404, 79-88	9.9	24
97	Agar agar-stabilized milled zerovalent iron particles for in situ groundwater remediation. *Science of the Total Environment*, **2016**, 563-564, 713-23	10.2	24
96	Natural organic matter and iron export from the Tanner Moor, Austria. *Limnologica*, **2013**, 43, 239-244	2	23
95	The lack of microbial degradation of polycyclic aromatic hydrocarbons from coal-rich soils. *Environmental Pollution*, **2011**, 159, 623-9	9.3	23

94	Scientific rationale for the development of an OECD test guideline on engineered nanomaterial stability. *NanoImpact*, **2018**, 11, 42-50	5.6	22
93	Bovine serum albumin adsorption to iron-oxide coated sands can change microsphere deposition mechanisms. *Environmental Science & Technology*, **2012**, 46, 2583-91	10.3	22
92	Zn and Pb release of sphalerite (ZnS)-bearing mine waste tailings. *Journal of Soils and Sediments*, **2008**, 8, 433-441	3.4	22
91	Pyrolysis of waste materials: Characterization and prediction of sorption potential across a wide range of mineral contents and pyrolysis temperatures. *Bioresource Technology*, **2016**, 214, 225-233	11	22
90	Synthesis and biological evaluation of biotin-conjugated anticancer thiosemicarbazones and their iron(III) and copper(II) complexes. *Journal of Inorganic Biochemistry*, **2019**, 190, 85-97	4.2	21
89	Effect of ageing on the properties and polycyclic aromatic hydrocarbon composition of biochar. *Environmental Sciences: Processes and Impacts*, **2017**, 19, 768-774	4.3	20
88	Aquatische Kolloide I: Eine Übersichtsarbeit zur Definition, zu Systemen und zur Relevanz. *Grundwasser*, **2003**, 8, 203-212	1.1	20
87	Emerging contaminants in sediment core from the Iron Gate I Reservoir on the Danube River. *Science of the Total Environment*, **2019**, 662, 77-87	10.2	19
86	Concentrations and Distributions of Metals Associated with Dissolved Organic Matter from the Suwannee River (GA, USA). *Environmental Engineering Science*, **2015**, 32, 54-65	2	19
85	Data on sorption of organic compounds by aged polystyrene microplastic particles. *Data in Brief*, **2018**, 18, 474-479	1.2	19
84	Accessibility of humic-associated Fe to a microbial siderophore: implications for bioavailability. *Environmental Science & Technology*, **2014**, 48, 1015-22	10.3	19
83	Positive and negative impacts of five Austrian gravel pit lakes on groundwater quality. *Science of the Total Environment*, **2013**, 443, 14-23	10.2	18
82	Chemosymbiotic bivalves contribute to the nitrogen budget of seagrass ecosystems. *ISME Journal*, **2019**, 13, 3131-3134	11.9	16
81	Measuring the reactivity of commercially available zero-valent iron nanoparticles used for environmental remediation with iopromide. *Journal of Contaminant Hydrology*, **2015**, 181, 36-45	3.9	16
80	Anthropogenic gadolinium as a transient tracer for investigating river bank filtration. *Science of the Total Environment*, **2016**, 571, 1432-40	10.2	16
79	Aquatische Kolloide II: Eine Übersichtsarbeit zur Probennahme, Probenaufbereitung und Charakterisierung. *Grundwasser*, **2003**, 8, 213-223	1.1	16
78	Combining gas-phase electrophoretic mobility molecular analysis (GEMMA), light scattering, field flow fractionation and cryo electron microscopy in a multidimensional approach to characterize liposomal carrier vesicles. *International Journal of Pharmaceutics*, **2016**, 513, 309-318	6.5	16
77	Interactions between aromatic hydrocarbons and functionalized C60 fullerenes Insights from experimental data and molecular modelling. *Environmental Science: Nano*, **2017**, 4, 1045-1053	7.1	15

76	Variations of common riverine contaminants in reservoir sediments. *Science of the Total Environment*, **2013**, 458-460, 90-100	10.2	15
75	Identification of coffee components that stimulate dopamine release from pheochromocytoma cells (PC-12). *Food and Chemical Toxicology*, **2012**, 50, 390-8	4.7	15
74	Accurate quantification of TiO nanoparticles in commercial sunscreens using standard materials and orthogonal particle sizing methods for verification. *Talanta*, **2020**, 215, 120921	6.2	15
73	Sulfidated nano-scale zerovalent iron is able to effectively reduce in situ hexavalent chromium in a contaminated aquifer. *Journal of Hazardous Materials*, **2021**, 405, 124665	12.8	15
72	Anthropogenic gadolinium in freshwater and drinking water systems. *Water Research*, **2020**, 182, 115966	12.5	14
71	A Large-Scale 3D Study on Transport of Humic Acid-Coated Goethite Nanoparticles for Aquifer Remediation. *Water (Switzerland)*, **2020**, 12, 1207	3	14
70	Combining spatially resolved hydrochemical data with in-vitro nanoparticle stability testing: assessing environmental behavior of functionalized gold nanoparticles on a continental scale. *Environment International*, **2013**, 59, 53-62	12.9	14
69	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. *Analyst, The*, **2015**, 140, 5257-67	5	13
68	Persistence of copper-based nanoparticle-containing foliar sprays in Lactuca sativa (lettuce) characterized by spICP-MS. *Journal of Nanoparticle Research*, **2019**, 21, 1	2.3	13
67	Impact of Sodium Humate Coating on Collector Surfaces on Deposition of Polymer-Coated Nanoiron Particles. *Environmental Science & Technology*, **2017**, 51, 9202-9209	10.3	13
66	Organic geochemistry of Danube River sediments from Pan□evo (Serbia) to the Iron Gate dam (Serbia□Romania). *Organic Geochemistry*, **2010**, 41, 971-974	3.1	13
65	Key Physicochemical Properties Dictating Gastrointestinal Bioaccessibility of Microplastics-Associated Organic Xenobiotics: Insights from a Deep Learning Approach. *Environmental Science & Technology*, **2020**, 54, 12051-12062	10.3	13
64	Effect of field site hydrogeochemical conditions on the corrosion of milled zerovalent iron particles and their dechlorination efficiency. *Science of the Total Environment*, **2018**, 618, 1619-1627	10.2	13
63	Complex-conductivity monitoring to delineate aquifer pore clogging during nanoparticles injection. *Geophysical Journal International*, **2019**, 218, 1838-1852	2.6	12
62	Gravel pit lake ecosystems reduce nitrate and phosphate concentrations in the outflowing groundwater. *Science of the Total Environment*, **2012**, 420, 222-8	10.2	12
61	Nano electrospray gas-phase electrophoretic mobility molecular analysis (nES GEMMA) of liposomes: applicability of the technique for nano vesicle batch control. *Analyst, The*, **2016**, 141, 6042-6050	5	12
60	Quantification and Characterization of Nanoparticulate Zinc in an Urban Watershed. *Frontiers in Environmental Science*, **2020**, 8,	4.8	11
59	Laser-Induced Breakdown-Detection for reliable online monitoring of membrane integrity. *Journal of Membrane Science*, **2014**, 466, 313-321	9.6	11

58	Quantification of river water infiltration in shallow aquifers using acesulfame and anthropogenic gadolinium. *Hydrological Processes*, **2016**, 30, 1742-1756	3.3	10
57	Development of a versatile analytical protocol for the comprehensive determination of the elemental composition of smartphone compartments on the example of printed circuit boards. *Analytical Methods*, **2018**, 10, 3864-3871	3.2	10
56	The Challenge: Carbon nanomaterials in the environment: New threats or wonder materials?. *Environmental Toxicology and Chemistry*, **2015**, 34, 954	3.8	10
55	Direct-push profiling of isotopic and hydrochemical vertical gradients. *Journal of Hydrology*, **2010**, 385, 84-94	6	10
54	Elevated polycyclic aromatic hydrocarbons in a river floodplain soil due to coal mining activities. *Water Science and Technology: Water Supply*, **2007**, 7, 69-74	1.4	10
53	Sorption to soil, biochar and compost: is prediction to multicomponent mixtures possible based on single sorbent measurements?. *PeerJ*, **2018**, 6, e4996	3.1	9
52	Natural Colloids and Nanoparticles in Aquatic and Terrestrial Environments109-161		8
51	An ArcGIS approach to include tectonic structures in point data regionalization. *Ground Water*, **2009**, 47, 591-7	2.4	8
50	Environmentally persistent free radicals are ubiquitous in wildfire charcoals and remain stable for years. *Communications Earth & Environment*, **2021**, 2,	6.1	8
49	Optimising the transport properties and reactivity of microbially-synthesised magnetite for in situ remediation. *Scientific Reports*, **2018**, 8, 4246	4.9	7
48	Finde den Unterschied: synthetische und natürliche Nanopartikel in der Umwelt—Freisetzung, Verhalten und Verbleib. *Angewandte Chemie*, **2014**, 126, 12604-12626	3.6	7
47	Modeling colloid deposition on a protein layer adsorbed to iron-oxide-coated sand. *Journal of Contaminant Hydrology*, **2012**, 142-143, 50-62	3.9	7
46	Aqueous accelerated solvent extraction of native polycyclic aromatic hydrocarbons (PAHs) from carbonaceous river floodplain soils. *Environmental Pollution*, **2009**, 157, 2604-9	9.3	7
45	Microplastics and nanoplastics barely enhance contaminant mobility in agricultural soils. *Communications Earth & Environment*, **2021**, 2,	6.1	7
44	Comment on the German draft legislation on hydraulic fracturing: the need for an accurate state of knowledge and for independent scientific research. *Environmental Science & Technology*, **2015**, 49, 6367-9	10.3	6
43	Importance of the nugget effect in variography on modeling zinc leaching from a contaminated site using simulated annealing. *Journal of Hydrology*, **2010**, 389, 78-89	6	6
42	Kolloide: Die Welt der vernachlässigten Dimensionen. *Chemie in Unserer Zeit*, **2004**, 38, 24-35	0.2	6
41	The importance of aromaticity to describe the interactions of organic matter with carbonaceous materials depends on molecular weight and sorbent geometry. *Environmental Sciences: Processes and Impacts*, **2020**, 22, 1888-1897	4.3	6

40	Microplastic extraction protocols can impact the polymer structure. *Microplastics and Nanoplastics*, **2021**, 1,		6
39	The leaching of phthalates from PVC can be determined with an infinite sink approach. *MethodsX*, **2019**, 6, 2729-2734	1.9	6
38	Umweltrelevanz von natürlichen polyzyklischen aromatischen Kohlenwasserstoffen aus Steinkohlen – eine Übersicht. *Grundwasser*, **2010**, 15, 5-18	1.1	5
37	Aquatische Kolloide: Kleine Teilchen - große Wirkung. *Nachrichten Aus Der Chemie*, **2001**, 49, 1291-1295	0.1	5
36	Methanol-based extraction protocol for insoluble and moderately water-soluble nanoparticles in plants to enable characterization by single particle ICP-MS. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 299-314	4.4	5
35	Wood ash amended biochar for the removal of lead, copper, zinc and cadmium from aqueous solution. *Environmental Technology and Innovation*, **2021**, 24, 101961	7	5
34	Intra-laboratory assessment of a method for the detection of TiO2 nanoparticles present in sunscreens based on multi-detector asymmetrical flow field-flow fractionation. *NanoImpact*, **2020**, 19, 100233	5.6	4
33	Carbonates and cherts as archives of seawater chemistry and habitability on a carbonate platform 3.35 Ga ago: Insights from Sm/Nd dating and trace element analysis from the Strelley Pool Formation, Western Australia. *Precambrian Research*, **2020**, 344, 105742	3.9	4
32	Biochar particle aggregation in soil pore water: the influence of ionic strength and interactions with pyrene. *Environmental Sciences: Processes and Impacts*, **2019**, 21, 1722-1728	4.3	4
31	A tree-based statistical classification algorithm (CHAID) for identifying variables responsible for the occurrence of faecal indicator bacteria during waterworks operations. *Journal of Hydrology*, **2014**, 519, 909-917	6	4
30	Methods of metal release assessment in soil water at anoxic sites. *Clean - Soil, Air, Water*, **2006**, 34, 579-586		4
29	DNA-foraging bacteria in the seafloor		4
28	The molecular interactions of organic compounds with tire crumb materials differ substantially from those with other microplastics. *Environmental Sciences: Processes and Impacts*, **2020**, 22, 121-130	4.3	4
27	Groundwater Chemistry Has a Greater Influence on the Mobility of Nanoparticles Used for Remediation than the Chemical Heterogeneity of Aquifer Media. *Environmental Science & Technology*, **2020**, 54, 1250-1257	10.3	4
26	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment.. *Environmental Science & Technology*, **2022**,	10.3	4
25	NO and natural organic matter affect both soot aggregation behavior and sorption of S-metolachlor. *Environmental Sciences: Processes and Impacts*, **2019**, 21, 1729-1735	4.3	3
24	Bacterial wax esters in recent fluvial sediments. *Organic Geochemistry*, **2015**, 89-90, 44-55	3.1	3
23	Combined Chemisorption and Complexation Generate siRNA Nanocarriers with Biophysics Optimized for Efficient Gene Knockdown and Air-Blood Barrier Crossing. *ACS Applied Materials & Interfaces*, **2020**, 12, 30095-30111	9.5	3

22	Synergetic Tl and As retention in secondary minerals: An example of extreme arsenic and thallium pollution. *Applied Geochemistry*, **2021**, 135, 105114	3.5	3
21	Mineralogy and Weathering of Realgar-Rich Tailings At a Former As-Sb-Cr Mine At Lojane, North Macedonia. *Canadian Mineralogist*, **2019**, 1-21	0.7	2
20	Material Flow Analysis: An Effectiveness Assessment Tool for In Situ Thermal Remediation. *Vadose Zone Journal*, **2013**, 12, vzj2012.0113	2.7	2
19	Rapid analysis of gunshot residues with single-particle inductively coupled plasma time-of-flight mass spectrometry.. *Forensic Science International*, **2022**, 332, 111202	2.6	2
18	Towards Standardization for Determining Dissolution Kinetics of Nanomaterials in Natural Aquatic Environments: Continuous Flow Dissolution of Ag Nanoparticles.. *Nanomaterials*, **2022**, 12,	5.4	2
17	Parameter estimation and uncertainty analysis in hydrological modeling. *Wiley Interdisciplinary Reviews: Water*, **2022**, 9,	5.7	2
16	Additives and polymer composition influence the interaction of microplastics with xenobiotics. *Environmental Chemistry*, **2021**, 18, 101	3.2	2
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