## Frank von der Kammer

## List of Publications by Citations

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#	Paper	IF	Citations
116	The ecotoxicology and chemistry of manufactured nanoparticles. <i>Ecotoxicology</i> , <b>2008</b> , 17, 287-314	2.9	674
115	Nanoparticles: structure, properties, preparation and behaviour in environmental media. <i>Ecotoxicology</i> , <b>2008</b> , 17, 326-43	2.9	433
114	Analysis of engineered nanomaterials in complex matrices (environment and biota): general considerations and conceptual case studies. <i>Environmental Toxicology and Chemistry</i> , <b>2012</b> , 31, 32-49	3.8	355
113	Nanomaterials for environmental studies: classification, reference material issues, and strategies for physico-chemical characterisation. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 1745-54	10.2	290
112	Release of TiO2 nanoparticles from sunscreens into surface waters: a one-year survey at the old Danube recreational Lake. <i>Environmental Science &amp; Danube recreational Lake</i> . <i>Environmental Lake</i> . <i>Environmental Lake</i> .	10.3	283
111	Paradigms to assess the environmental impact of manufactured nanomaterials. <i>Environmental Toxicology and Chemistry</i> , <b>2012</b> , 31, 3-14	3.8	263
110	Algal testing of titanium dioxide nanoparticlestesting considerations, inhibitory effects and modification of cadmium bioavailability. <i>Toxicology</i> , <b>2010</b> , 269, 190-7	4.4	247
109	Separation and characterization of nanoparticles in complex food and environmental samples by field-flow fractionation. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 425-436	14.6	221
108	Nanostructured TiO2: transport behavior and effects on aquatic microbial communities under environmental conditions. <i>Environmental Science &amp; Environmental Science &amp; Environm</i>	10.3	198
107	Commercial titanium dioxide nanoparticles in both natural and synthetic water: comprehensive multidimensional testing and prediction of aggregation behavior. <i>Environmental Science &amp; Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 10045-52	10.3	162
106	Detection and characterization of silver nanoparticles in chicken meat by asymmetric flow field flow fractionation with detection by conventional or single particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 8185-95	4.4	158
105	Iron Oxides as Geochemical Nanovectors for Metal Transport in Soil-River Systems. <i>Elements</i> , <b>2008</b> , 4, 401-406	3.8	151
104	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2015</b> , 45, 2084-2134	1 <sup>11.1</sup>	145
103	The road to nowhere: equilibrium partition coefficients for nanoparticles. <i>Environmental Science: Nano</i> , <b>2014</b> , 1, 317-323	7.1	116
102	Behavior of Ag nanoparticles in soil: effects of particle surface coating, aging and sewage sludge amendment. <i>Environmental Pollution</i> , <b>2013</b> , 182, 141-9	9.3	115
101	Concern-driven integrated approaches to nanomaterial testing and assessmentreport of the NanoSafety Cluster Working Group 10. <i>Nanotoxicology</i> , <b>2014</b> , 8, 334-48	5.3	111
100	Field-flow fractionation and inductively coupled plasma mass spectrometer coupling: History, development and applications. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2010</b> , 25, 613	3.7	109

## (2018-2009)

99	Estimating the relevance of engineered carbonaceous nanoparticle facilitated transport of hydrophobic organic contaminants in porous media. <i>Environmental Pollution</i> , <b>2009</b> , 157, 1117-26	9.3	104
98	Microplastic Exposure Assessment in Aquatic Environments: Learning from Similarities and Differences to Engineered Nanoparticles. <i>Environmental Science &amp; Enpironmental Scien</i>	7 <sup>10.3</sup>	103
97	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. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 307-314	7.1	96
96	Size-based speciation of natural colloidal particles by flow field flow fractionation, inductively coupled plasma-mass spectroscopy, and transmission electron microscopy/X-ray energy dispersive spectroscopy: colloids-trace element interaction. <i>Environmental Science &amp; Environmental Science &amp; E</i>	10.3	95
95	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. <i>Environmental Science: Nano</i> , <b>2015</b> , 2, 421-428	7.1	94
94	Effect of pH and stream order on iron and arsenic speciation in boreal catchments. <i>Environmental Science &amp; Environmental Scie</i>	10.3	93
93	Spot the difference: engineered and natural nanoparticles in the environmentrelease, behavior, and fate. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12398-419	16.4	91
92	Current status and future direction for examining engineered nanoparticles in natural systems. <i>Environmental Chemistry</i> , <b>2014</b> , 11, 351	3.2	88
91	Size fractionation and characterization of natural colloids by flow-field flow fractionation coupled to multi-angle laser light scattering. <i>Journal of Chromatography A</i> , <b>2006</b> , 1104, 272-81	4.5	88
90	Using FlFFF and aTEM to determine trace metalBanoparticle associations in riverbed sediment. <i>Environmental Chemistry</i> , <b>2010</b> , 7, 82	3.2	86
89	Influence of surface functionalization and particle size on the aggregation kinetics of engineered nanoparticles. <i>Chemosphere</i> , <b>2012</b> , 87, 918-24	8.4	84
88	Assessment of the physico-chemical behavior of titanium dioxide nanoparticles in aquatic environments using multi-dimensional parameter testing. <i>Environmental Pollution</i> , <b>2010</b> , 158, 3472-81	9.3	84
87	Optimisation of asymmetrical flow field flow fractionation for environmental nanoparticles separation. <i>Journal of Chromatography A</i> , <b>2008</b> , 1206, 160-5	4.5	83
86	Field-flow fractionation coupled to multi-angle laser light scattering detectors: Applicability and analytical benefits for the analysis of environmental colloids. <i>Analytica Chimica Acta</i> , <b>2005</b> , 552, 166-174	1 <sup>6.6</sup>	81
85	Validation of methods for the detection and quantification of engineered nanoparticles in food. <i>Food Chemistry</i> , <b>2013</b> , 138, 1959-66	8.5	79
84	Relevance of peat-draining rivers for the riverine input of dissolved iron into the ocean. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 2402-8	10.2	79
83	Optimization and evaluation of asymmetric flow field-flow fractionation of silver nanoparticles. <i>Journal of Chromatography A</i> , <b>2013</b> , 1272, 116-25	4.5	78
82	Where is the nano? Analytical approaches for the detection and quantification of TiO2 engineered nanoparticles in surface waters. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 313-326	7.1	77

81	Natural organic matter concentration and hydrochemistry influence aggregation kinetics of functionalized engineered nanoparticles. <i>Environmental Science &amp; Environmental Scie</i>	10.3	76
80	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. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 102, 213-225	5.5	73
79	Detection of Engineered Copper Nanoparticles in Soil Using Single Particle ICP-MS. <i>International Journal of Environmental Research and Public Health</i> , <b>2015</b> , 12, 15756-68	4.6	73
78	Legal and practical challenges in classifying nanomaterials according to regulatory definitions. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 208-216	28.7	72
77	Identification and characterization of organic nanoparticles in food. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 100-112	14.6	72
76	Humic acid adsorption and surface charge effects on schwertmannite and goethite in acid sulphate waters. <i>Water Research</i> , <b>2008</b> , 42, 2051-60	12.5	70
75	The potential of TiO2 nanoparticles as carriers for cadmium uptake in Lumbriculus variegatus and Daphnia magna. <i>Aquatic Toxicology</i> , <b>2012</b> , 118-119, 1-8	5.1	66
74	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. <i>Journal of Analytical Atomic</i>	3.7	60
73	River-derived humic substances as iron chelators in seawater. <i>Marine Chemistry</i> , <b>2015</b> , 174, 85-93	3.7	55
72	Natural sample fractionation by FlFFF-MALLS-TEM: sample stabilization, preparation, pre-concentration and fractionation. <i>Journal of Chromatography A</i> , <b>2005</b> , 1093, 156-66	4.5	50
71	Meeting the Needs for Released Nanomaterials Required for Further Testing-The SUN Approach. <i>Environmental Science &amp; Environmental Science &amp; Environme</i>	10.3	49
70	Using FLOWFFF and HPSEC to determine trace metal-colloid associations in wetland runoff. <i>Water Research</i> , <b>2013</b> , 47, 2757-69	12.5	47
69	The influence of pH on iron speciation in podzol extracts: iron complexes with natural organic matter, and iron mineral nanoparticles. <i>Science of the Total Environment</i> , <b>2013</b> , 461-462, 108-16	10.2	46
68	Nanoscale lignin particles as sources of dissolved iron to the ocean. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26,	5.9	46
67	Influence of carrier solution ionic strength and injected sample load on retention and recovery of natural nanoparticles using Flow Field-Flow Fractionation. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 6763-73	4.5	40
66	Colloid-associated export of arsenic in stream water during stormflow events. <i>Chemical Geology</i> , <b>2013</b> , 352, 81-91	4.2	39
65	3D characterization of natural colloids by FlFFF-MALLS-TEM. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 383, 549-56	4.4	38
64	Ageing of synthetic and natural schwertmannites at pH 2B. Clay Minerals, 2008, 43, 437-448	1.3	37

63	Silver and gold nanoparticle separation using asymmetrical flow-field flow fractionation: Influence of run conditions and of particle and membrane charges. <i>Journal of Chromatography A</i> , <b>2016</b> , 1440, 150	)- <del>1</del> 559	36
62	Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 351-367	7.1	35
61	Key principles and operational practices for improved nanotechnology environmental exposure assessment. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 731-742	28.7	34
60	Dynamic light-scattering measurement comparability of nanomaterial suspensions. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	33
59	Quantifying the influence of humic acid adsorption on colloidal microsphere deposition onto iron-oxide-coated sand. <i>Environmental Pollution</i> , <b>2010</b> , 158, 3498-506	9.3	33
58	Production of reference materials for the detection and size determination of silica nanoparticles in tomato soup. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3895-907	4.4	32
57	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. <i>Environmental Science &amp; Environmental Sci</i>	14-9:32	4 <sup>30</sup>
56	Release of TiO 2 [(Nano) particles from construction and demolition landfills. <i>NanoImpact</i> , <b>2017</b> , 8, 73-7	<b>'9</b> 5.6	30
55	Asymmetrical Flow-Field-Flow Fractionation coupled with inductively coupled plasma mass spectrometry for the analysis of gold nanoparticles in the presence of natural nanoparticles. <i>Journal of Chromatography A</i> , <b>2014</b> , 1372C, 204-211	4.5	30
54	Feasibility of the development of reference materials for the detection of Ag nanoparticles in food: neat dispersions and spiked chicken meat. <i>Accreditation and Quality Assurance</i> , <b>2015</b> , 20, 3-16	0.7	29
53	TiO2 nanomaterial detection in calcium rich matrices by spICPMS. A matter of resolution and treatment. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1400-1411	3.7	27
52	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. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 6679-91	4.4	26
51	Influence of ionic strength and pH on the limitation of latex microsphere deposition sites on iron-oxide coated sand by humic acid. <i>Environmental Pollution</i> , <b>2011</b> , 159, 1896-904	9.3	26
50	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. <i>Environmental Science &amp; Dechnology</i> , <b>2017</b> , 51, 11669-11680	10.3	25
49	Tetrachloroferrate containing ionic liquids: Magnetic- and aggregation behavior. <i>Inorganic Chemistry Communication</i> , <b>2010</b> , 13, 1485-1488	3.1	25
48	Application of a high-performance liquid chromatography fluorescence detector as a nephelometric turbidity detector following Field-Flow Fractionation to analyse size distributions of environmental colloids. <i>Journal of Chromatography A</i> , <b>2005</b> , 1100, 81-9	4.5	25
47	Agar agar-stabilized milled zerovalent iron particles for in situ groundwater remediation. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 713-23	10.2	24
46	Natural organic matter and iron export from the Tanner Moor, Austria. <i>Limnologica</i> , <b>2013</b> , 43, 239-244	2	23

45	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 13-36	7.1	23
44	Scientific rationale for the development of an OECD test guideline on engineered nanomaterial stability. <i>NanoImpact</i> , <b>2018</b> , 11, 42-50	5.6	22
43	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. <i>Environmental Science &amp; Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1128-1138	10.3	22
42	Bovine serum albumin adsorption to iron-oxide coated sands can change microsphere deposition mechanisms. <i>Environmental Science &amp; Environmental Scienc</i>	10.3	22
41	Impact of particle size and light exposure on the effects of TiO2 nanoparticles on Caenorhabditis elegans. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 2288-96	3.8	21
40	Aquatische Kolloide I: Eine Bersichtsarbeit zur Definition, zu Systemen und zur Relevanz. <i>Grundwasser</i> , <b>2003</b> , 8, 203-212	1.1	20
39	Concentrations and Distributions of Metals Associated with Dissolved Organic Matter from the Suwannee River (GA, USA). <i>Environmental Engineering Science</i> , <b>2015</b> , 32, 54-65	2	19
38	Accessibility of humic-associated Fe to a microbial siderophore: implications for bioavailability. <i>Environmental Science &amp; Environmental Science &amp; En</i>	10.3	19
37	Proposal for a tiered dietary bioaccumulation testing strategy for engineered nanomaterials using fish. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2030-2046	7.1	17
36	Toward a comprehensive and realistic risk evaluation of engineered nanomaterials in the urban water system. <i>Frontiers in Chemistry</i> , <b>2014</b> , 2, 39	5	17
35	Aquatische Kolloide II: Eine Bersichtsarbeit zur Probennahme, Probenaufbereitung und Charakterisierung. <i>Grundwasser</i> , <b>2003</b> , 8, 213-223	1.1	16
34	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. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 513, 309-318	6.5	16
33	Characterisation of Aquatic Colloids and Macromolecules by Field-Flow Fractionation 2007, 223-276		15
32	Colloidal Transport in Porous Media 2007,		15
31	Accurate quantification of TiO nanoparticles in commercial sunscreens using standard materials and orthogonal particle sizing methods for verification. <i>Talanta</i> , <b>2020</b> , 215, 120921	6.2	15
30	A Large-Scale 3D Study on Transport of Humic Acid-Coated Goethite Nanoparticles for Aquifer Remediation. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1207	3	14
29	Combining spatially resolved hydrochemical data with in-vitro nanoparticle stability testing: assessing environmental behavior of functionalized gold nanoparticles on a continental scale. <i>Environment International</i> , <b>2013</b> , 59, 53-62	12.9	14
28	Comparison of Different Monitoring Programs of the 2002 Summer Flood in the River Elbe. <i>Clean - Soil, Air, Water,</i> <b>2005</b> , 33, 404-417		14

## (2020-2015)

27	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. <i>Analyst, The</i> , <b>2015</b> , 140, 5257-67	5	13
26	Persistence of copper-based nanoparticle-containing foliar sprays in Lactuca sativa (lettuce) characterized by spICP-MS. <i>Journal of Nanoparticle Research</i> , <b>2019</b> , 21, 1	2.3	13
25	Impact of Sodium Humate Coating on Collector Surfaces on Deposition of Polymer-Coated Nanoiron Particles. <i>Environmental Science &amp; Environmental Scien</i>	10.3	13
24	Effect of field site hydrogeochemical conditions on the corrosion of milled zerovalent iron particles and their dechlorination efficiency. <i>Science of the Total Environment</i> , <b>2018</b> , 618, 1619-1627	10.2	13
23	Opportunities for examining the natural nanogeochemical environment using recent advances in nanoparticle analysis. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 1768-1772	3.7	12
22	Natural colloid characterization using flow-field-flow-fractionation followed by multi-detector analysis. <i>Water Science and Technology</i> , <b>1998</b> , 37, 173	2.2	12
21	Impact of natural nanophases on heavy-metal retention in zeolite-supported reactive filtration facilities for urban run-off treatment. <i>Freseniusl Journal of Analytical Chemistry</i> , <b>2001</b> , 371, 652-9		12
20	Nano electrospray gas-phase electrophoretic mobility molecular analysis (nES GEMMA) of liposomes: applicability of the technique for nano vesicle batch control. <i>Analyst, The</i> , <b>2016</b> , 141, 6042-6	o <del>5</del> 0	12
19	Mechanisms of (photo)toxicity of TiO nanomaterials (NM103, NM104, NM105): using high-throughput gene expression in Enchytraeus crypticus. <i>Nanoscale</i> , <b>2018</b> , 10, 21960-21970	7.7	12
18	Quantification and Characterization of Nanoparticulate Zinc in an Urban Watershed. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	11
17	Natural Colloids and Nanoparticles in Aquatic and Terrestrial Environments109-161		8
16	Modeling colloid deposition on a protein layer adsorbed to iron-oxide-coated sand. <i>Journal of Contaminant Hydrology</i> , <b>2012</b> , 142-143, 50-62	3.9	7
15	Nanomaterial environmental risk assessment. <i>Integrated Environmental Assessment and Management</i> , <b>2015</b> , 11, 333-5	2.5	6
14	The importance of aromaticity to describe the interactions of organic matter with carbonaceous materials depends on molecular weight and sorbent geometry. <i>Environmental Sciences: Processes and Impacts</i> , <b>2020</b> , 22, 1888-1897	4.3	6
13	Quantification of anthropogenic and geogenic Ce in sewage sludge based on Ce oxidation state and rare earth element patterns. <i>Water Research X</i> , <b>2020</b> , 9, 100059	8.1	5
12	New guidance brings clarity to environmental hazard and behaviour testing of nanomaterials.  Nature Nanotechnology, <b>2021</b> , 16, 482-483	28.7	5
11	Methanol-based extraction protocol for insoluble and moderately water-soluble nanoparticles in plants to enable characterization by single particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 299-314	4.4	5
10	Intra-laboratory assessment of a method for the detection of TiO2 nanoparticles present in sunscreens based on multi-detector asymmetrical flow field-flow fractionation. <i>NanoImpact</i> , <b>2020</b> , 19, 100233	5.6	4

9	Refinement of the selection of physicochemical properties for grouping and read-across of nanoforms <i>NanoImpact</i> , <b>2022</b> , 25, 100375	5.6	2
8	Rapid analysis of gunshot residues with single-particle inductively coupled plasma time-of-flight mass spectrometry <i>Forensic Science International</i> , <b>2022</b> , 332, 111202	2.6	2
7	Towards Standardization for Determining Dissolution Kinetics of Nanomaterials in Natural Aquatic Environments: Continuous Flow Dissolution of Ag Nanoparticles <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	2
6	Novel multimethod approach for the determination of the colloidal stability of nanomaterials in complex environmental mixtures using a global stability index: TiO as case study. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149607	10.2	2
5	Comparing the Influence of Two Different Natural Organic Matter Types on Colloid Deposition in Saturated Porous Medium. <i>Advanced Materials Research</i> , <b>2012</b> , 455-456, 1324-1329	0.5	1
4	Exploring Nanogeochemical Environments: New Insights from Single Particle ICP-TOFMS and AF4-ICPMS ACS Earth and Space Chemistry, <b>2022</b> , 6, 943-952	3.2	1
3	A critical evaluation of short columns for estimating the attachment efficiency of engineered nanomaterials in natural soils. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 1801-1814	7.1	О
2	Freshwater suspended particulate matter Eey components and processes in floc formation and dynamics. Water Research, 2022, 220, 118655	12.5	O

Transport of Colloids in Filter Columns: Laboratory and Field Experiments **2007**, 87-115