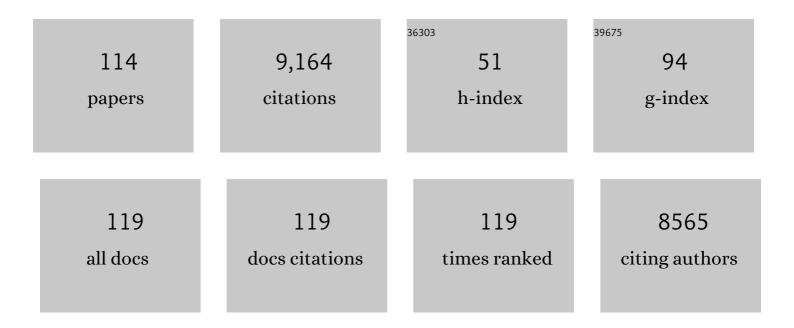
Frank von der Kammer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Refinement of the selection of physicochemical properties for grouping and read-across of nanoforms. NanoImpact, 2022, 25, 100375.	4.5	6
2	Rapid analysis of gunshot residues with single-particle inductively coupled plasma time-of-flight mass spectrometry. Forensic Science International, 2022, 332, 111202.	2.2	11
3	Towards Standardization for Determining Dissolution Kinetics of Nanomaterials in Natural Aquatic Environments: Continuous Flow Dissolution of Ag Nanoparticles. Nanomaterials, 2022, 12, 519.	4.1	5
4	Exploring Nanogeochemical Environments: New Insights from Single Particle ICP-TOFMS and AF4-ICPMS. ACS Earth and Space Chemistry, 2022, 6, 943-952.	2.7	9
5	Assessing the Lability and Environmental Mobility of Organically Bound Copper by Stable Isotope Dilution. Environmental Science & Technology, 2022, 56, 5580-5589.	10.0	2
6	Solving Familiar Problems: Leveraging Environmental Testing Methods for Nanomaterials to Evaluate Microplastics and Nanoplastics. Nanomaterials, 2022, 12, 1332.	4.1	5
7	Freshwater suspended particulate matter—Key components and processes in floc formation and dynamics. Water Research, 2022, 220, 118655.	11.3	34
8	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.	3.7	13
9	New guidance brings clarity to environmental hazard and behaviour testing of nanomaterials. Nature Nanotechnology, 2021, 16, 482-483.	31.5	13
10	Novel multimethod approach for the determination of the colloidal stability of nanomaterials in complex environmental mixtures using a global stability index: TiO2 as case study. Science of the Total Environment, 2021, 801, 149607.	8.0	5
11	A critical evaluation of short columns for estimating the attachment efficiency of engineered nanomaterials in natural soils. Environmental Science: Nano, 2021, 8, 1801-1814.	4.3	1
12	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	4.3	32
13	Quantification of anthropogenic and geogenic Ce in sewage sludge based on Ce oxidation state and rare earth element patterns. Water Research X, 2020, 9, 100059.	6.1	9
14	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.	3.5	13
15	Key principles and operational practices for improved nanotechnology environmental exposure assessment. Nature Nanotechnology, 2020, 15, 731-742.	31.5	66
16	A Large-Scale 3D Study on Transport of Humic Acid-Coated Goethite Nanoparticles for Aquifer Remediation. Water (Switzerland), 2020, 12, 1207.	2.7	20
17	Quantification and Characterization of Nanoparticulate Zinc in an Urban Watershed. Frontiers in Environmental Science, 2020, 8, .	3.3	21
18	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.	4.5	6

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19	Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments. Environmental Science: Nano, 2020, 7, 351-367.	4.3	59
20	Accurate quantification of TiO2 nanoparticles in commercial sunscreens using standard materials and orthogonal particle sizing methods for verification. Talanta, 2020, 215, 120921.	5.5	21
21	Opportunities for examining the natural nanogeochemical environment using recent advances in nanoparticle analysis. Journal of Analytical Atomic Spectrometry, 2019, 34, 1768-1772.	3.0	22
22	Persistence of copper-based nanoparticle-containing foliar sprays in Lactuca sativa (lettuce) characterized by spICP-MS. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	22
23	Legal and practical challenges in classifying nanomaterials according to regulatory definitions. Nature Nanotechnology, 2019, 14, 208-216.	31.5	115
24	Scientific rationale for the development of an OECD test guideline on engineered nanomaterial stability. NanoImpact, 2018, 11, 42-50.	4.5	31
25	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. Environmental Science & Technology, 2018, 52, 1514-1524.	10.0	36
26	Transformations of Nanoenabled Copper Formulations Govern Release, Antifungal Effectiveness, and Sustainability throughout the Wood Protection Lifecycle. Environmental Science & Technology, 2018, 52, 1128-1138.	10.0	34
27	Where is the nano? Analytical approaches for the detection and quantification of TiO ₂ engineered nanoparticles in surface waters. Environmental Science: Nano, 2018, 5, 313-326.	4.3	101
28	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.	8.0	20
29	Mechanisms of (photo)toxicity of TiO ₂ nanomaterials (NM103, NM104, NM105): using high-throughput gene expression in <i>Enchytraeus crypticus</i> . Nanoscale, 2018, 10, 21960-21970.	5.6	17
30	Proposal for a tiered dietary bioaccumulation testing strategy for engineered nanomaterials using fish. Environmental Science: Nano, 2018, 5, 2030-2046.	4.3	23
31	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.	4.3	128
32	Microplastic Exposure Assessment in Aquatic Environments: Learning from Similarities and Differences to Engineered Nanoparticles. Environmental Science & Technology, 2017, 51, 2499-2507.	10.0	146
33	TiO2 nanomaterial detection in calcium rich matrices by spICPMS. A matter of resolution and treatment. Journal of Analytical Atomic Spectrometry, 2017, 32, 1400-1411.	3.0	39
34	Nanoscale Coloristic Pigments: Upper Limits on Releases from Pigmented Plastic during Environmental Aging, In Food Contact, and by Leaching. Environmental Science & Technology, 2017, 51, 11669-11680.	10.0	35
35	Release of TiO 2 – (Nano) particles from construction and demolition landfills. NanoImpact, 2017, 8, 73-79.	4.5	39
36	Impact of Sodium Humate Coating on Collector Surfaces on Deposition of Polymer-Coated Nanoiron Particles. Environmental Science & Technology, 2017, 51, 9202-9209.	10.0	14

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37	Agar agar-stabilized milled zerovalent iron particles for in situ groundwater remediation. Science of the Total Environment, 2016, 563-564, 713-723.	8.0	29
38	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.	5.2	19
39	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.	3.5	15
40	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, 6679-6691.	3.7	29
41	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.	3.7	38
42	Meeting the Needs for Released Nanomaterials Required for Further Testing—The SUN Approach. Environmental Science & Technology, 2016, 50, 2747-2753.	10.0	55
43	Detection of Engineered Copper Nanoparticles in Soil Using Single Particle ICP-MS. International Journal of Environmental Research and Public Health, 2015, 12, 15756-15768.	2.6	100
44	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.	3.0	66
45	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. Critical Reviews in Environmental Science and Technology, 2015, 45, 2084-2134.	12.8	172
46	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.	0.8	33
47	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. Analyst, The, 2015, 140, 5257-5267.	3.5	14
48	Nanomaterial environmental risk assessment. Integrated Environmental Assessment and Management, 2015, 11, 333-335.	2.9	7
49	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. Environmental Science: Nano, 2015, 2, 421-428.	4.3	110
50	River-derived humic substances as iron chelators in seawater. Marine Chemistry, 2015, 174, 85-93.	2.3	74
51	Concentrations and Distributions of Metals Associated with Dissolved Organic Matter from the Suwannee River (GA, USA). Environmental Engineering Science, 2015, 32, 54-65.	1.6	21
52	Toward a comprehensive and realistic risk evaluation of engineered nanomaterials in the urban water system. Frontiers in Chemistry, 2014, 2, 39.	3.6	20
53	Current status and future direction for examining engineered nanoparticles in natural systems. Environmental Chemistry, 2014, 11, 351.	1.5	103
54	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, 1372, 204-211.	3.7	33

Frank von der Kammer

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55	Dynamic light-scattering measurement comparability of nanomaterial suspensions. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	37
56	Production of reference materials for the detection and size determination of silica nanoparticles in tomato soup. Analytical and Bioanalytical Chemistry, 2014, 406, 3895-907.	3.7	36
57	The road to nowhere: equilibrium partition coefficients for nanoparticles. Environmental Science: Nano, 2014, 1, 317-323.	4.3	129
58	Spot the Difference: Engineered and Natural Nanoparticles in the Environment—Release, Behavior, and Fate. Angewandte Chemie - International Edition, 2014, 53, 12398-12419.	13.8	210
59	Accessibility of Humic-Associated Fe to a Microbial Siderophore: Implications for Bioavailability. Environmental Science & Technology, 2014, 48, 1015-1022.	10.0	22
60	Release of TiO ₂ Nanoparticles from Sunscreens into Surface Waters: A One-Year Survey at the Old Danube Recreational Lake. Environmental Science & Technology, 2014, 48, 5415-5422.	10.0	344
61	Impact of particle size and light exposure on the effects of TiO ₂ nanoparticles on <i>Caenorhabditis elegans</i> . Environmental Toxicology and Chemistry, 2014, 33, 2288-2296.	4.3	23
62	Concern-driven integrated approaches to nanomaterial testing and assessment – report of the NanoSafety Cluster Working Group 10. Nanotoxicology, 2014, 8, 334-348.	3.0	118
63	Detection and characterization of silver nanoparticles in chicken meat by asymmetric flow field flow fractionation with detection by conventional or single particle ICP-MS. Analytical and Bioanalytical Chemistry, 2013, 405, 8185-8195.	3.7	178
64	Natural Organic Matter Concentration and Hydrochemistry Influence Aggregation Kinetics of Functionalized Engineered Nanoparticles. Environmental Science & Technology, 2013, 47, 4113-4120.	10.0	86
65	Behavior of Ag nanoparticles in soil: Effects of particle surface coating, aging and sewage sludge amendment. Environmental Pollution, 2013, 182, 141-149.	7.5	129
66	Validation of methods for the detection and quantification of engineered nanoparticles in food. Food Chemistry, 2013, 138, 1959-1966.	8.2	88
67	Optimization and evaluation of asymmetric flow field-flow fractionation of silver nanoparticles. Journal of Chromatography A, 2013, 1272, 116-125.	3.7	84
68	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.	3.9	82
69	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.	10.0	17
70	Colloid-associated export of arsenic in stream water during stormflow events. Chemical Geology, 2013, 352, 81-91.	3.3	46
71	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, 108-116.	8.0	55
72	Using FLOWFFF and HPSEC to determine trace metal–colloid associations in wetland runoff. Water Research, 2013, 47, 2757-2769.	11.3	59

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73	Effect of pH and Stream Order on Iron and Arsenic Speciation in Boreal Catchments. Environmental Science & Technology, 2013, 47, 7120-7128.	10.0	113
74	Natural organic matter and iron export from the Tanner Moor, Austria. Limnologica, 2013, 43, 239-244.	1.5	27
75	Bovine Serum Albumin Adsorption to Iron-Oxide Coated Sands Can Change Microsphere Deposition Mechanisms. Environmental Science & Technology, 2012, 46, 2583-2591.	10.0	26
76	The potential of TiO2 nanoparticles as carriers for cadmium uptake in Lumbriculus variegatus and Daphnia magna. Aquatic Toxicology, 2012, 118-119, 1-8.	4.0	78
77	Nanoscale lignin particles as sources of dissolved iron to the ocean. Global Biogeochemical Cycles, 2012, 26, .	4.9	53
78	Modeling colloid deposition on a protein layer adsorbed to iron-oxide-coated sand. Journal of Contaminant Hydrology, 2012, 142-143, 50-62.	3.3	7
79	Influence of surface functionalization and particle size on the aggregation kinetics of engineered nanoparticles. Chemosphere, 2012, 87, 918-924.	8.2	95
80	Analysis of engineered nanomaterials in complex matrices (environment and biota): General considerations and conceptual case studies. Environmental Toxicology and Chemistry, 2012, 31, 32-49.	4.3	390
81	Paradigms to assess the environmental impact of manufactured nanomaterials. Environmental Toxicology and Chemistry, 2012, 31, 3-14.	4.3	294
82	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, 1896-1904.	7.5	30
83	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, 6763-6773.	3.7	41
84	Commercial Titanium Dioxide Nanoparticles in Both Natural and Synthetic Water: Comprehensive Multidimensional Testing and Prediction of Aggregation Behavior. Environmental Science & Technology, 2011, 45, 10045-10052.	10.0	175
85	Identification and characterization of organic nanoparticles in food. TrAC - Trends in Analytical Chemistry, 2011, 30, 100-112.	11.4	84
86	Separation and characterization of nanoparticles in complex food and environmental samples by field-flow fractionation. TrAC - Trends in Analytical Chemistry, 2011, 30, 425-436.	11.4	243
87	Nanomaterials for environmental studies: Classification, reference material issues, and strategies for physico-chemical characterisation. Science of the Total Environment, 2010, 408, 1745-1754.	8.0	339
88	Relevance of peat-draining rivers for the riverine input of dissolved iron into the ocean. Science of the Total Environment, 2010, 408, 2402-2408.	8.0	86
89	Quantifying the influence of humic acid adsorption on colloidal microsphere deposition onto iron-oxide-coated sand. Environmental Pollution, 2010, 158, 3498-3506.	7.5	36
90	Assessment of the physico-chemical behavior of titanium dioxide nanoparticles in aquatic environments using multi-dimensional parameter testing. Environmental Pollution, 2010, 158, 3472-3481.	7.5	87

Frank von der Kammer

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91	Algal testing of titanium dioxide nanoparticles—Testing considerations, inhibitory effects and modification of cadmium bioavailability. Toxicology, 2010, 269, 190-197.	4.2	273
92	Tetrachloroferrate containing ionic liquids: Magnetic- and aggregation behavior. Inorganic Chemistry Communication, 2010, 13, 1485-1488.	3.9	31
93	Using FIFFF and aTEM to determine trace metal–nanoparticle associations in riverbed sediment. Environmental Chemistry, 2010, 7, 82.	1.5	97
94	Field-flow fractionation and inductively coupled plasma mass spectrometer coupling: History, development and applications. Journal of Analytical Atomic Spectrometry, 2010, 25, 613.	3.0	118
95	Nanostructured TiO ₂ : Transport Behavior and Effects on Aquatic Microbial Communities under Environmental Conditions. Environmental Science & Technology, 2009, 43, 8098-8104.	10.0	216
96	Estimating the relevance of engineered carbonaceous nanoparticle facilitated transport of hydrophobic organic contaminants in porous media. Environmental Pollution, 2009, 157, 1117-1126.	7.5	119
97	The ecotoxicology and chemistry of manufactured nanoparticles. Ecotoxicology, 2008, 17, 287-314.	2.4	774
98	Nanoparticles: structure, properties, preparation and behaviour in environmental media. Ecotoxicology, 2008, 17, 326-343.	2.4	535
99	Optimisation of asymmetrical flow field flow fractionation for environmental nanoparticles separation. Journal of Chromatography A, 2008, 1206, 160-165.	3.7	89
100	Iron Oxides as Geochemical Nanovectors for Metal Transport in Soil-River Systems. Elements, 2008, 4, 401-406.	0.5	176
101	Humic acid adsorption and surface charge effects on schwertmannite and goethite in acid sulphate waters. Water Research, 2008, 42, 2051-2060.	11.3	85
102	Ageing of synthetic and natural schwertmannites at pH 2—8. Clay Minerals, 2008, 43, 437-448.	0.6	40
103	Characterisation of Aquatic Colloids and Macromolecules by Field-Flow Fractionation. , 2007, , 223-276.		18
104	Transport of Colloids in Filter Columns: Laboratory and Field Experiments. , 2007, , 87-115.		0
105	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:Â Colloidsâ^Trace Element Interaction. Environmental Science & Dispersive 2156-2162.	10.0	104
106	Size fractionation and characterization of natural colloids by flow-field flow fractionation coupled to multi-angle laser light scattering. Journal of Chromatography A, 2006, 1104, 272-281.	3.7	98
107	Field-flow fractionation coupled to multi-angle laser light scattering detectors: Applicability and analytical benefits for the analysis of environmental colloids. Analytica Chimica Acta, 2005, 552, 166-174.	5.4	87
108	Natural sample fractionation by FlFFF–MALLS–TEM: Sample stabilization, preparation, preparation, preparation. Journal of Chromatography A, 2005, 1093, 156-166.	3.7	53

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109	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. Journal of Chromatography A, 2005, 1100, 81-89.	3.7	27
110	Comparison of Different Monitoring Programs of the 2002 Summer Flood in the River Elbe. Clean - Soil, Air, Water, 2005, 33, 404-417.	0.6	14
111	3D characterization of natural colloids by FIFFF-MALLS-TEM. Analytical and Bioanalytical Chemistry, 2005, 383, 549-556.	3.7	45
112	Impact of natural nanophases on heavy-metal retention in zeolite-supported reactive filtration facilities for urban run-off treatment. Fresenius' Journal of Analytical Chemistry, 2001, 371, 652-659.	1.5	13
113	Natural colloid characterization using flow-field-flow-fractionation followed by multi-detector analysis. Water Science and Technology, 1998, 37, 173.	2.5	15
114	Comparing the Influence of Two Different Natural Organic Matter Types on Colloid Deposition in Saturated Porous Medium. Advanced Materials Research, 0, 455-456, 1324-1329.	0.3	1