

Martin Hassell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7870453/publications.pdf>

Version: 2024-02-01

78
papers

10,126
citations

57758

44
h-index

79698

73
g-index

80
all docs

80
docs citations

80
times ranked

10079
citing authors

#	ARTICLE	IF	CITATIONS
1	Outside the Safe Operating Space of the Planetary Boundary for Novel Entities. <i>Environmental Science & Technology</i> , 2022, 56, 1510-1521.	10.0	477
2	Microplastic Characterization by Infrared Spectroscopy. , 2022, , 79-111.		0
3	Nanofragmentation of Expanded Polystyrene Under Simulated Environmental Weathering (Thermooxidative Degradation and Hydrodynamic Turbulence). <i>Frontiers in Marine Science</i> , 2021, 7, .	2.5	35
4	Deep Learning for Reconstructing Low-Quality FTIR and Raman Spectra”€A Case Study in Microplastic Analyses. <i>Analytical Chemistry</i> , 2021, 93, 16360-16368.	6.5	46
5	Comparison between manta trawl and in situ pump filtration methods, and guidance for visual identification of microplastics in surface waters. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5559-5571.	5.3	112
6	Nanomaterial Fate in Seawater: A Rapid Sink or Intermittent Stabilization?. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	22
7	Microplastic Characterization by Infrared Spectroscopy. , 2020, , 1-33.		2
8	Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments. <i>Environmental Science: Nano</i> , 2020, 7, 351-367.	4.3	59
9	Summer sea ice melt and wastewater are important local sources of microlitter to Svalbard waters. <i>Environment International</i> , 2020, 139, 105511.	10.0	49
10	Response to the Letter to the Editor Regarding Our Feature “Are We Speaking the Same Language? Recommendations for a Definition and Categorization Framework for Plastic Debris”€; <i>Environmental Science & Technology</i> , 2019, 53, 4678-4679.	10.0	25
11	An efficient and gentle enzymatic digestion protocol for the extraction of microplastics from bivalve tissue. <i>Marine Pollution Bulletin</i> , 2019, 142, 129-134.	5.0	83
12	Are We Speaking the Same Language? Recommendations for a Definition and Categorization Framework for Plastic Debris. <i>Environmental Science & Technology</i> , 2019, 53, 1039-1047.	10.0	1,322
13	Microplastics in sub-surface waters of the Arctic Central Basin. <i>Marine Pollution Bulletin</i> , 2018, 130, 8-18.	5.0	295
14	The unaccountability case of plastic pellet pollution. <i>Marine Pollution Bulletin</i> , 2018, 129, 52-60.	5.0	156
15	Influence of thermooxidative degradation on the in situ fate of polyethylene in temperate coastal waters. <i>Marine Pollution Bulletin</i> , 2018, 135, 187-194.	5.0	64
16	Particle sources and transport in stratified Nordic coastal seas in the Anthropocene. <i>Elementa</i> , 2018, 6, .	3.2	25
17	Progress towards monitoring of microlitter in Scandinavian marine environments. <i>TemaNord</i> , 2018, , .	1.3	2
18	Effects of silver nanoparticles on the freshwater snail <i>Physa acuta</i> : The role of test media and snails’™ life cycle stage. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 243-253.	4.3	23

#	ARTICLE	IF	CITATIONS
19	Influence of organic molecules on the aggregation of TiO ₂ nanoparticles in acidic conditions. <i>Journal of Nanoparticle Research</i> , 2017, 19, 133.	1.9	18
20	Size dependence of silver nanoparticle removal in a wastewater treatment plant mesocosm measured by FAST single particle ICP-MS. <i>Environmental Science: Nano</i> , 2017, 4, 1189-1197.	4.3	20
21	Screening for microplastics in sediment, water, marine invertebrates and fish: Method development and microplastic accumulation. <i>Marine Pollution Bulletin</i> , 2017, 122, 403-408.	5.0	359
22	Coagulation and sedimentation of gold nanoparticles and illite in model natural waters: Influence of initial particle concentration. <i>NanoImpact</i> , 2016, 3-4, 67-74.	4.5	38
23	TiO ₂ nanoparticle interactions with supported lipid membranes – an example of removal of membrane patches. <i>RSC Advances</i> , 2016, 6, 91102-91110.	3.6	13
24	Effects of alginate on stability and ecotoxicity of nano-TiO ₂ in artificial seawater. <i>Ecotoxicology and Environmental Safety</i> , 2015, 117, 107-114.	6.0	31
25	A new peak recognition algorithm for detection of ultra-small nano-particles by single particle ICP-MS using rapid time resolved data acquisition on a sector-field mass spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1723-1729.	3.0	43
26	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. <i>Environmental Science: Nano</i> , 2015, 2, 421-428.	4.3	110
27	Intermethod comparison of the particle size distributions of colloidal silica nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035009.	6.1	84
28	Silver nanoparticles and silver nitrate induce high toxicity to <i>Pseudokirchneriella subcapitata</i> , <i>Daphnia magna</i> and <i>Danio rerio</i> . <i>Science of the Total Environment</i> , 2014, 466-467, 232-241.	8.0	192
29	Improving the accuracy of single particle ICPMS for measurement of size distributions and number concentrations of nanoparticles by determining analyte partitioning during nebulisation. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 743-752.	3.0	58
30	A signal deconvolution method to discriminate smaller nanoparticles in single particle ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 134-144.	3.0	87
31	Influence of different types of natural organic matter on titania nanoparticle stability: effects of counter ion concentration and pH. <i>Environmental Science: Nano</i> , 2014, 1, 181-189.	4.3	51
32	Common Strategies and Technologies for the Ecosafety Assessment and Design of Nanomaterials Entering the Marine Environment. <i>ACS Nano</i> , 2014, 8, 9694-9709.	14.6	149
33	Multimethod 3D characterization of natural plate-like nanoparticles: shape effects on equivalent size measurements. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	18
34	In situ characterisation of physicochemical state and concentration of nanoparticles in soil ecotoxicity studies using environmental scanning electron microscopy. <i>Environmental Chemistry</i> , 2014, 11, 367.	1.5	12
35	Geographically distributed classification of surface water chemical parameters influencing fate and behavior of nanoparticles and colloid facilitated contaminant transport. <i>Water Research</i> , 2013, 47, 5350-5361.	11.3	63
36	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> , 2013, 102, 213-225.	3.9	82

#	ARTICLE	IF	CITATIONS
37	Surface charge and interfacial potential of titanium dioxide nanoparticles: Experimental and theoretical investigations. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 168-176.	9.4	118
38	Nanoparticle-Induced Holes in Model Membranes. <i>Biophysical Journal</i> , 2012, 102, 506a.	0.5	0
39	Size Discrimination and Detection Capabilities of Single-Particle ICPMS for Environmental Analysis of Silver Nanoparticles. <i>Analytical Chemistry</i> , 2012, 84, 3965-3972.	6.5	258
40	Influence of trace metal release from volcanic ash on growth of <i>Thalassiosira pseudonana</i> and <i>Emiliania huxleyi</i> . <i>Marine Chemistry</i> , 2012, 132-133, 28-33.	2.3	53
41	Nonlinear Concentration Dependence of the Collective Diffusion Coefficient of TiO ₂ Nanoparticle Dispersions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13609-13616.	3.1	10
42	Uptake and effects of manufactured silver nanoparticles in rainbow trout (<i>Oncorhynchus mykiss</i>) gill cells. <i>Aquatic Toxicology</i> , 2011, 101, 117-125.	4.0	151
43	Influence of salinity and organic matter on the toxicity of Cu to a brackish water and marine clone of the red macroalga <i>Ceramium tenuicorne</i> . <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 636-642.	6.0	21
44	Characterization of the effluent from a nanosilver producing washing machine. <i>Environment International</i> , 2011, 37, 1057-1062.	10.0	230
45	Synthesis, characterization and particle size distribution of TiO ₂ colloidal nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 254-261.	4.7	43
46	Applications of particle-tracking analysis to the determination of size distributions and concentrations of nanoparticles in environmental, biological and food samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 473-483.	11.4	183
47	Challenges in Exposure Modeling of Nanoparticles in Aquatic Environments. <i>Human and Ecological Risk Assessment (HERA)</i> , 2011, 17, 245-262.	3.4	115
48	Colloid-Facilitated Metal Transport in Peat Filters. <i>Water Environment Research</i> , 2010, 82, 506-511.	2.7	21
49	Nanomaterials for environmental studies: Classification, reference material issues, and strategies for physico-chemical characterisation. <i>Science of the Total Environment</i> , 2010, 408, 1745-1754.	8.0	339
50	Size and composition of colloidal organic matter and trace elements in the Mississippi River, Pearl River and the northern Gulf of Mexico, as characterized by flow field-flow fractionation. <i>Marine Chemistry</i> , 2010, 118, 119-128.	2.3	169
51	Iron biogeochemistry across marine systems – progress from the past decade. <i>Biogeosciences</i> , 2010, 7, 1075-1097.	3.3	69
52	Fractionation of iron species and iron isotopes in the Baltic Sea euphotic zone. <i>Biogeosciences</i> , 2010, 7, 2489-2508.	3.3	27
53	Using FFFF and aTEM to determine trace metal-nanoparticle associations in riverbed sediment. <i>Environmental Chemistry</i> , 2010, 7, 82.	1.5	97
54	Nanofibrils and other colloidal biopolymers binding trace elements in coastal seawater: Significance for variations in element size distributions. <i>Limnology and Oceanography</i> , 2010, 55, 187-202.	3.1	56

#	ARTICLE	IF	CITATIONS
55	Measurements of nanoparticle number concentrations and size distributions in contrasting aquatic environments using nanoparticle tracking analysis. <i>Environmental Chemistry</i> , 2010, 7, 67.	1.5	91
56	Effects of silver and gold nanoparticles on rainbow trout (<i>Oncorhynchus mykiss</i>) hepatocytes. <i>Aquatic Toxicology</i> , 2010, 96, 44-52.	4.0	179
57	Field-flow fractionation and inductively coupled plasma mass spectrometer coupling: History, development and applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 613.	3.0	118
58	Dissolved iron (II) in the Baltic Sea surface water and implications for cyanobacterial bloom development. <i>Biogeosciences</i> , 2009, 6, 2397-2420.	3.3	38
59	Considerations for environmental fate and ecotoxicity testing to support environmental risk assessments for engineered nanoparticles. <i>Journal of Chromatography A</i> , 2009, 1216, 503-509.	3.7	336
60	The ecotoxicology and chemistry of manufactured nanoparticles. <i>Ecotoxicology</i> , 2008, 17, 287-314.	2.4	774
61	Nanoparticle analysis and characterization methodologies in environmental risk assessment of engineered nanoparticles. <i>Ecotoxicology</i> , 2008, 17, 344-361.	2.4	543
62	Iron Oxides as Geochemical Nanovectors for Metal Transport in Soil-River Systems. <i>Elements</i> , 2008, 4, 401-406.	0.5	176
63	Detection and characterization of engineered nanoparticles in food and the environment. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2008, 25, 795-821.	2.3	601
64	Changes in size distribution of fresh water nanoscale colloidal matter and associated elements on mixing with seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3292-3301.	3.9	130
65	Characterisation of Aquatic Colloids and Macromolecules by Field-Flow Fractionation. , 2007, , 223-276.		18
66	Application of cross-flow ultrafiltration for the determination of colloidal abundances in suboxic ferrous-rich ground waters. <i>Science of the Total Environment</i> , 2007, 372, 636-644.	8.0	26
67	Asymmetrical Flow Field Flow Fractionation - Multidetector System as a Tool for Studying Metal - Alginate Interactions. <i>Environmental Chemistry</i> , 2006, 3, 192.	1.5	24
68	Relative molar mass distributions of chromophoric colloidal organic matter in coastal seawater determined by Flow Field-Flow Fractionation with UV absorbance and fluorescence detection. <i>Marine Chemistry</i> , 2005, 94, 111-123.	2.3	25
69	High resolution ICPMS as an on-line detector for flow field-flow fractionation; multi-element determination of colloidal size distributions in a natural water sample. <i>Analytica Chimica Acta</i> , 2005, 535, 109-121.	5.4	113
70	Detection Methods for Field-Flow Fractionation. , 2005, , 437-442.		0
71	Comment on "Trace Metal Levels in Uncontaminated Groundwater of a Coastal Watershed: Importance of Colloidal Forms". <i>Environmental Science & Technology</i> , 2003, 37, 657-658.	10.0	8
72	Competition between iron- and carbon-based colloidal carriers for trace metals in a freshwater assessed using flow field-flow fractionation coupled to ICPMS. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3791-3802.	3.9	206

#	ARTICLE	IF	CITATIONS
73	Title is missing!. Aquatic Geochemistry, 2001, 7, 155-171.	1.3	23
74	Determination of Continuous Size and Trace Element Distribution of Colloidal Material in Natural Water by On-Line Coupling of Flow Field-Flow Fractionation with ICPMS. Analytical Chemistry, 1999, 71, 3497-3502.	6.5	155
75	Sedimentation Field-Flow Fractionation Coupled Online to Inductively Coupled Plasma Mass Spectrometry New Possibilities for Studies of Trace Metal Adsorption onto Natural Colloids. Environmental Science & Technology, 1999, 33, 4528-4531.	10.0	36
76	Electrospray Mass Spectrometry as Online Detector for Low Molecular Weight Polymer Separations with Flow Field-Flow Fractionation. Journal of Liquid Chromatography and Related Technologies, 1997, 20, 2843-2856.	1.0	19
77	Rapid, high-precision potentiometric titration of alkalinity in ocean and sediment pore waters. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 2031-2044.	1.4	184
78	Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters. Analytica Chimica Acta, 1997, 357, 187-196.	5.4	55