

Mohamed Baalousha

List of Publications by Citations

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96
papers

6,392
citations

41
h-index

79
g-index

102
ext. papers

7,125
ext. citations

7.5
avg, IF

6.22
L-index

#	Paper	IF	Citations
96	Characterizing manufactured nanoparticles in the environment: multimethod determination of particle sizes. <i>Environmental Science & Technology</i> , 2009 , 43, 7277-84	10.3	447
95	Nanoparticles: structure, properties, preparation and behaviour in environmental media. <i>Ecotoxicology</i> , 2008 , 17, 326-43	2.9	433
94	Aggregation and disaggregation of iron oxide nanoparticles: Influence of particle concentration, pH and natural organic matter. <i>Science of the Total Environment</i> , 2009 , 407, 2093-101	10.2	410
93	Aggregation and surface properties of iron oxide nanoparticles: influence of pH and natural organic matter. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1875-82	3.8	287
92	Effects of aqueous exposure to silver nanoparticles of different sizes in rainbow trout. <i>Toxicological Sciences</i> , 2010 , 115, 521-34	4.4	265
91	Algal testing of titanium dioxide nanoparticles--testing considerations, inhibitory effects and modification of cadmium bioavailability. <i>Toxicology</i> , 2010 , 269, 190-7	4.4	247
90	Flow field-flow fractionation for the analysis and characterization of natural colloids and manufactured nanoparticles in environmental systems: a critical review. <i>Journal of Chromatography A</i> , 2011 , 1218, 4078-103	4.5	223
89	Bioavailability of nanoscale metal oxides TiO(2), CeO(2), and ZnO to fish. <i>Environmental Science & Technology</i> , 2010 , 44, 1144-51	10.3	223
88	Modeling nanomaterial environmental fate in aquatic systems. <i>Environmental Science & Technology</i> , 2015 , 49, 2587-93	10.3	209
87	Effect of monovalent and divalent cations, anions and fulvic acid on aggregation of citrate-coated silver nanoparticles. <i>Science of the Total Environment</i> , 2013 , 454-455, 119-31	10.2	194
86	Conformation and size of humic substances: Effects of major cation concentration and type, pH, salinity, and residence time. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 272, 48-55	5.1	184
85	Aggregation and dispersion of silver nanoparticles in exposure media for aquatic toxicity tests. <i>Journal of Chromatography A</i> , 2011 , 1218, 4226-33	4.5	173
84	Physico-chemical behaviour and algal toxicity of nanoparticulate CeO2 in freshwater. <i>Environmental Chemistry</i> , 2010 , 7, 50	3.2	152
83	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> , 2015 , 45, 2084-2134	11.1	145
82	Interspecies comparisons on the uptake and toxicity of silver and cerium dioxide nanoparticles. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 144-54	3.8	131
81	Rationalizing nanomaterial sizes measured by atomic force microscopy, flow field-flow fractionation, and dynamic light scattering: sample preparation, polydispersity, and particle structure. <i>Environmental Science & Technology</i> , 2012 , 46, 6134-42	10.3	123
80	Characterization of natural aquatic colloids (. <i>Environmental Science & Technology</i> , 2007 , 41, 1111-7	10.3	103

79	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 & Technology</i> , 2006 , 40, 2156-62	10.3	95
78	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. <i>Environmental Science: Nano</i> , 2015 , 2, 421-428	7.1	94
77	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. <i>Chemical Geology</i> , 2012 , 304-305, 68-82	4.2	94
76	Effects of particle size and coating on nanoscale Ag and TiO ₂ exposure in zebrafish (Danio rerio) embryos. <i>Nanotoxicology</i> , 2013 , 7, 1315-24	5.3	90
75	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> , 2006 , 1104, 272-81	4.5	88
74	Modeling nanomaterial fate and uptake in the environment: current knowledge and future trends. <i>Environmental Science: Nano</i> , 2016 , 3, 323-345	7.1	86
73	Nanoparticle dispersity in toxicology. <i>Nature Nanotechnology</i> , 2013 , 8, 308-9	28.7	74
72	Outdoor urban nanomaterials: The emergence of a new, integrated, and critical field of study. <i>Science of the Total Environment</i> , 2016 , 557-558, 740-53	10.2	73
71	The ecological risk, source identification, and pollution assessment of heavy metals in road dust: a case study in Rafsanjan, SE Iran. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 13382-13395	5.1	67
70	A rapid approach for measuring silver nanoparticle concentration and dissolution in seawater by UV-Vis. <i>Science of the Total Environment</i> , 2018 , 618, 597-607	10.2	66
69	Sewage spills are a major source of titanium dioxide engineered (nano)-particles into the environment. <i>Environmental Science: Nano</i> , 2019 , 6, 763-777	7.1	63
68	Acidification in the U.S. Southeast: Causes, Potential Consequences and the Role of the Southeast Ocean and Coastal Acidification Network. <i>Frontiers in Marine Science</i> , 2020 , 7, 1-548	4.5	63
67	Characterization of cerium oxide nanoparticles-part 1: size measurements. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 983-93	3.8	59
66	Supramolecular structure of humic acids by TEM with improved sample preparation and staining. <i>Microscopy Research and Technique</i> , 2005 , 66, 299-306	2.8	55
65	Transformations of citrate and Tween coated silver nanoparticles reacted with Na ₂ S. <i>Science of the Total Environment</i> , 2015 , 502, 344-53	10.2	52
64	Natural sample fractionation by FIFFF-MALLS-TEM: sample stabilization, preparation, pre-concentration and fractionation. <i>Journal of Chromatography A</i> , 2005 , 1093, 156-66	4.5	50
63	The concentration-dependent behaviour of nanoparticles. <i>Environmental Chemistry</i> , 2016 , 13, 1	3.2	49
62	Quantitative measurement of the nanoparticle size and number concentration from liquid suspensions by atomic force microscopy. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 1338-47 ³	4.3	49

61	Characterization of cerium oxide nanoparticles-part 2: nonsize measurements. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 994-1003	3.8	49
60	Impact of surface coating and environmental conditions on the fate and transport of silver nanoparticles in the aquatic environment. <i>Science of the Total Environment</i> , 2016 , 568, 95-106	10.2	48
59	Transport and retention of carbon dots (CDs) in saturated and unsaturated porous media: Role of ionic strength, pH, and collector grain size. <i>Water Research</i> , 2018 , 133, 338-347	12.5	47
58	Effect of colloids on the occurrence, distribution and photolysis of emerging organic contaminants in wastewaters. <i>Journal of Hazardous Materials</i> , 2015 , 299, 241-8	12.8	43
57	Evaluation of charge and agglomeration behavior of TiO ₂ nanoparticles in ecotoxicological media. <i>Science of the Total Environment</i> , 2015 , 535, 45-53	10.2	43
56	Size, speciation and lability of NOM-metal complexes in hyperalkaline cave dripwater. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 7533-7551	5.5	43
55	Effect of nanomaterial and media physicochemical properties on nanomaterial aggregation kinetics. <i>NanoImpact</i> , 2017 , 6, 55-68	5.6	41
54	Characterisation of structural and surface speciation of representative commercially available cerium oxide nanoparticles. <i>Environmental Chemistry</i> , 2010 , 7, 377	3.2	40
53	Size fractionation and characterization of natural aquatic colloids and nanoparticles. <i>Science of the Total Environment</i> , 2007 , 386, 93-102	10.2	40
52	Occurrence and Removal of Engineered Nanoparticles in Drinking Water Treatment and Wastewater Treatment Processes. <i>Separation and Purification Reviews</i> , 2017 , 46, 255-272	7.3	39
51	An electron microscopy based method for the detection and quantification of nanomaterial number concentration in environmentally relevant media. <i>Science of the Total Environment</i> , 2015 , 537, 479-86	10.2	38
50	3D characterization of natural colloids by FIFFF-MALLS-TEM. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 383, 549-56	4.4	38
49	Seasonal variability of natural water chemistry affects the fate and behaviour of silver nanoparticles. <i>Chemosphere</i> , 2018 , 191, 616-625	8.4	36
48	Characterization of natural and manufactured nanoparticles by atomic force microscopy: Effect of analysis mode, environment and sample preparation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 419, 238-247	5.1	36
47	Natural organic matter composition determines the molecular nature of silver nanomaterial-NOM corona. <i>Environmental Science: Nano</i> , 2018 , 5, 868-881	7.1	35
46	Effect of nanomaterial and media physicochemical properties on Ag NM aggregation kinetics. <i>Journal of Colloid and Interface Science</i> , 2017 , 487, 192-200	9.3	35
45	Size fractionation and optical properties of colloids in an organic-rich estuary (Thurso, UK). <i>Marine Chemistry</i> , 2009 , 113, 227-237	3.7	33
44	Citrate-Coated Silver Nanoparticles Growth-Independently Inhibit Aflatoxin Synthesis in <i>Aspergillus parasiticus</i> . <i>Environmental Science & Technology</i> , 2017 , 51, 8085-8093	10.3	30

43	Stability and Aggregation Kinetics of Titania Nanomaterials under Environmentally Realistic Conditions. <i>Environmental Science & Technology</i> , 2016 , 50, 8462-72	10.3	28
42	The concentration-dependent aggregation of Ag NPs induced by cystine. <i>Science of the Total Environment</i> , 2016 , 557-558, 395-403	10.2	28
41	Potential impact of natural organic ligands on the colloidal stability of silver nanoparticles. <i>Science of the Total Environment</i> , 2018 , 625, 1518-1526	10.2	27
40	Detection and quantification of engineered particles in urban runoff. <i>Chemosphere</i> , 2020 , 248, 126070	8.4	24
39	Fluorescence characterization of fractionated dissolved organic matter in the five tributaries of Poyang Lake, China. <i>Science of the Total Environment</i> , 2018 , 637-638, 1311-1320	10.2	24
38	Association of Arsenic and Phosphorus with Iron Nanoparticles between Streams and Aquifers: Implications for Arsenic Mobility. <i>Environmental Science & Technology</i> , 2015 , 49, 14101-9	10.3	23
37	Assessment of cultured fish hepatocytes for studying cellular uptake and (eco)toxicity of nanoparticles. <i>Environmental Chemistry</i> , 2010 , 7, 36	3.2	20
36	Effect of phosphate buffer on aggregation kinetics of citrate-coated silver nanoparticles induced by monovalent and divalent electrolytes. <i>Science of the Total Environment</i> , 2017 , 581-582, 268-276	10.2	18
35	Evolution of human health risk based on EPA modeling for adults and children and pollution level of potentially toxic metals in Rafsanjan road dust: a case study in a semi-arid region, Iran. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 19767-19778	5.1	18
34	Natural Colloids and Manufactured Nanoparticles in Aquatic and Terrestrial Systems 2011 , 89-129		17
33	Concentrations and size distribution of TiO and Ag engineered particles in five wastewater treatment plants in the United States. <i>Science of the Total Environment</i> , 2021 , 753, 142017	10.2	17
32	Stormwater green infrastructures retain high concentrations of TiO engineered (nano)-particles. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122335	12.8	15
31	How to distinguish natural versus engineered nanomaterials: insights from the analysis of TiO ₂ and CeO ₂ in soils. <i>Environmental Chemistry Letters</i> , 2020 , 18, 215-227	13.3	15
30	Application of a multi-method approach in characterization of natural aquatic colloids from different sources along Huangpu River in Shanghai, China. <i>Science of the Total Environment</i> , 2016 , 554-555, 228-36	10.2	14
29	Modeling the transport of titanium dioxide nanomaterials from combined sewer overflows in an urban river. <i>Science of the Total Environment</i> , 2019 , 696, 133904	10.2	13
28	Toward a better extraction of titanium dioxide engineered nanomaterials from complex environmental matrices. <i>NanoImpact</i> , 2018 , 11, 119-127	5.6	12
27	Dispersion of natural nanomaterials in surface waters for better characterization of their physicochemical properties by AF4-ICP-MS-TEM. <i>Science of the Total Environment</i> , 2019 , 682, 663-672	10.2	11
26	Co-transport and remobilization of Cu and Pb in quartz column by carbon dots. <i>Science of the Total Environment</i> , 2018 , 626, 995-1004	10.2	11

25	Analysis of engineered nanomaterials (Ag, CeO and FeO) in spiked surface waters at environmentally relevant particle concentrations. <i>Science of the Total Environment</i> , 2020 , 715, 136927	10.2	10
24	Episodic surges in titanium dioxide engineered particle concentrations in surface waters following rainfall events. <i>Chemosphere</i> , 2021 , 263, 128261	8.4	10
23	Improved extraction efficiency of natural nanomaterials in soils to facilitate their characterization using a multimethod approach. <i>Science of the Total Environment</i> , 2019 , 677, 34-46	10.2	9
22	Synthesis, characterization, and environmental behaviors of monodispersed platinum nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 330-341	9.3	9
21	Methods for Measuring Concentration (Mass, Surface Area and Number) of Nanomaterials. <i>Frontiers of Nanoscience</i> , 2015 , 8, 153-181	0.7	8
20	Natural Colloids and Nanoparticles in Aquatic and Terrestrial Environments 109-161		8
19	Suspended particulate matter determines physical speciation of Fe, Mn, and trace metals in surface waters of Loire watershed. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5251-5266	5.1	8
18	Regulation of phosphorus bioavailability by iron nanoparticles in a monomictic lake. <i>Scientific Reports</i> , 2018 , 8, 17736	4.9	8
17	Analysis of complex particle mixtures by asymmetrical flow field-flow fractionation coupled to inductively coupled plasma time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2021 , 1641, 461981	4.5	6
16	Effect of Nanoparticle Size and Natural Organic Matter Composition on the Bioavailability of Polyvinylpyrrolidone-Coated Platinum Nanoparticles to a Model Freshwater Invertebrate. <i>Environmental Science & Technology</i> , 2021 , 55, 2452-2461	10.3	6
15	Comparative study of dissolved and nanoparticulate Ag effects on the life cycle of an estuarine meiobenthic copepod, <i>Amphiascus tenuiremis</i> . <i>Nanotoxicology</i> , 2018 , 12, 375-389	5.3	5
14	Overview of Environmental Nanoscience. <i>Frontiers of Nanoscience</i> , 2014 , 7, 1-54	0.7	5
13	Nanoparticle size and natural organic matter composition determine aggregation behavior of polyvinylpyrrolidone coated platinum nanoparticles. <i>Environmental Science: Nano</i> , 2020 , 7, 3318-3332	7.1	5
12	Chemical transformations of nanoscale zinc oxide in simulated sweat and its impact on the antibacterial efficacy. <i>Journal of Hazardous Materials</i> , 2021 , 410, 124568	12.8	5
11	Overview of Nanoscience in the Environment 1-29		4
10	Metal-Containing Nanoparticles in Low-Rank Coal-Derived Fly Ash from China: Characterization and Implications toward Human Lung Toxicity. <i>Environmental Science & Technology</i> , 2021 , 55, 6644-6654 ^{10.3}		4
9	Enrichments of Metals, Including Methylmercury, in Sewage Spills in South Carolina, USA. <i>Journal of Environmental Quality</i> , 2018 , 47, 1258-1266	3.4	4
8	Elemental fingerprints in natural nanomaterials determined using SP-ICP-TOF-MS and clustering analysis. <i>Science of the Total Environment</i> , 2021 , 792, 148426	10.2	4

7	Integrative Approach for Groundwater Pollution Risk Assessment Coupling Hydrogeological, Physicochemical and Socioeconomic Conditions in Southwest of the Damascus Basin. <i>Water (Switzerland)</i> , 2021 , 13, 1220	3	3
6	Does natural organic matter increase the bioavailability of cerium dioxide nanoparticles to fish?. <i>Environmental Chemistry</i> , 2015 , 12, 673	3.2	2
5	Transport of N-CD and Pre-Sorbed Pb in Saturated Porous Media. <i>Molecules</i> , 2020 , 25,	4.8	1
4	Comparative assessment of the fate and toxicity of chemically and biologically synthesized silver nanoparticles to juvenile clams. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 209, 112173	6	0
3	Temporal variation in TiO engineered particle concentrations in the Broad River during dry and wet weathers. <i>Science of the Total Environment</i> , 2021 , 807, 151081	10.2	0
2	Natural organic matter composition and nanomaterial surface coating determine the nature of platinum nanomaterial-natural organic matter corona. <i>Science of the Total Environment</i> , 2022 , 806, 150477	10.2	0
1	Temporal variability in TiO engineered particle concentrations in rural Edisto River.. <i>Chemosphere</i> , 2022 , 134091	8.4	0