Mohamed Baalousha

List of Publications by Year in Descending Order

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	Comparative assessment of the fate and toxicity of chemically and biologically synthesized silver nanoparticles to juvenile clams. *Colloids and Surfaces B: Biointerfaces*, **2022**, 209, 112173	6	0
95	Natural organic matter composition and nanomaterial surface coating determine the nature of platinum nanomaterial-natural organic matter corona. *Science of the Total Environment*, **2022**, 806, 150477	10.2	0
94	Temporal variability in TiO engineered particle concentrations in rural Edisto River.. *Chemosphere*, **2022**, 134091	8.4	0
93	Temporal variation in TiO engineered particle concentrations in the Broad River during dry and wet weathers. *Science of the Total Environment*, **2021**, 807, 151081	10.2	0
92	Analysis of complex particle mixtures by asymmetrical flow field-flow fractionation coupled to inductively coupled plasma time-of-flight mass spectrometry. *Journal of Chromatography A*, **2021**, 1641, 461981	4.5	6
91	Integrative Approach for Groundwater Pollution Risk Assessment Coupling Hydrogeological, Physicochemical and Socioeconomic Conditions in Southwest of the Damascus Basin. *Water (Switzerland)*, **2021**, 13, 1220	3	3
90	Metal-Containing Nanoparticles in Low-Rank Coal-Derived Fly Ash from China: Characterization and Implications toward Human Lung Toxicity. *Environmental Science & Technology*, **2021**, 55, 6644-6654	10.3	4
89	Episodic surges in titanium dioxide engineered particle concentrations in surface waters following rainfall events. *Chemosphere*, **2021**, 263, 128261	8.4	10
88	Concentrations and size distribution of TiO and Ag engineered particles in five wastewater treatment plants in the United States. *Science of the Total Environment*, **2021**, 753, 142017	10.2	17
87	Chemical transformations of nanoscale zinc oxide in simulated sweat and its impact on the antibacterial efficacy. *Journal of Hazardous Materials*, **2021**, 410, 124568	12.8	5
86	Effect of Nanoparticle Size and Natural Organic Matter Composition on the Bioavailability of Polyvinylpyrrolidone-Coated Platinum Nanoparticles to a Model Freshwater Invertebrate. *Environmental Science & Technology*, **2021**, 55, 2452-2461	10.3	6
85	Elemental fingerprints in natural nanomaterials determined using SP-ICP-TOF-MS and clustering analysis. *Science of the Total Environment*, **2021**, 792, 148426	10.2	4
84	Analysis of engineered nanomaterials (Ag, CeO and FeO) in spiked surface waters at environmentally relevant particle concentrations. *Science of the Total Environment*, **2020**, 715, 136927	10.2	10
83	Stormwater green infrastructures retain high concentrations of TiO engineered (nano)-particles. *Journal of Hazardous Materials*, **2020**, 392, 122335	12.8	15
82	Detection and quantification of engineered particles in urban runoff. *Chemosphere*, **2020**, 248, 126070	8.4	24
81	Nanoparticle size and natural organic matter composition determine aggregation behavior of polyvinylpyrrolidone coated platinum nanoparticles. *Environmental Science: Nano*, **2020**, 7, 3318-3332	7.1	5
80	Acidification in the U.S. Southeast: Causes, Potential Consequences and the Role of the Southeast Ocean and Coastal Acidification Network. *Frontiers in Marine Science*, **2020**, 7, 1-548	4.5	63

79	Transport of N-CD and Pre-Sorbed Pb in Saturated Porous Media. *Molecules*, **2020**, 25,	4.8	1
78	How to distinguish natural versus engineered nanomaterials: insights from the analysis of TiO2 and CeO2 in soils. *Environmental Chemistry Letters*, **2020**, 18, 215-227	13.3	15
77	Modeling the transport of titanium dioxide nanomaterials from combined sewer overflows in an urban river. *Science of the Total Environment*, **2019**, 696, 133904	10.2	13
76	Sewage spills are a major source of titanium dioxide engineered (nano)-particles into the environment. *Environmental Science: Nano*, **2019**, 6, 763-777	7.1	63
75	Dispersion of natural nanomaterials in surface waters for better characterization of their physicochemical properties by AF4-ICP-MS-TEM. *Science of the Total Environment*, **2019**, 682, 663-672	10.2	11
74	Improved extraction efficiency of natural nanomaterials in soils to facilitate their characterization using a multimethod approach. *Science of the Total Environment*, **2019**, 677, 34-46	10.2	9
73	Synthesis, characterization, and environmental behaviors of monodispersed platinum nanoparticles. *Journal of Colloid and Interface Science*, **2019**, 540, 330-341	9.3	9
72	Suspended particulate matter determines physical speciation of Fe, Mn, and trace metals in surface waters of Loire watershed. *Environmental Science and Pollution Research*, **2019**, 26, 5251-5266	5.1	8
71	Natural organic matter composition determines the molecular nature of silver nanomaterial-NOM corona. *Environmental Science: Nano*, **2018**, 5, 868-881	7.1	35
70	Co-transport and remobilization of Cu and Pb in quartz column by carbon dots. *Science of the Total Environment*, **2018**, 626, 995-1004	10.2	11
69	Potential impact of natural organic ligands on the colloidal stability of silver nanoparticles. *Science of the Total Environment*, **2018**, 625, 1518-1526	10.2	27
68	Comparative study of dissolved and nanoparticulate Ag effects on the life cycle of an estuarine meiobenthic copepod, Amphiascus tenuiremis. *Nanotoxicology*, **2018**, 12, 375-389	5.3	5
67	A rapid approach for measuring silver nanoparticle concentration and dissolution in seawater by UV-Vis. *Science of the Total Environment*, **2018**, 618, 597-607	10.2	66
66	The ecological risk, source identification, and pollution assessment of heavy metals in road dust: a case study in Rafsanjan, SE Iran. *Environmental Science and Pollution Research*, **2018**, 25, 13382-13395	5.1	67
65	Seasonal variability of natural water chemistry affects the fate and behaviour of silver nanoparticles. *Chemosphere*, **2018**, 191, 616-625	8.4	36
64	Transport and retention of carbon dots (CDs) in saturated and unsaturated porous media: Role of ionic strength, pH, and collector grain size. *Water Research*, **2018**, 133, 338-347	12.5	47
63	Toward a better extraction of titanium dioxide engineered nanomaterials from complex environmental matrices. *NanoImpact*, **2018**, 11, 119-127	5.6	12
62	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. *Environmental Science and Pollution Research*, **2018**, 25, 19767-19778	5.1	18

61	Regulation of phosphorus bioavailability by iron nanoparticles in a monomictic lake. *Scientific Reports*, **2018**, 8, 17736	4.9	8
60	Enrichments of Metals, Including Methylmercury, in Sewage Spills in South Carolina, USA. *Journal of Environmental Quality*, **2018**, 47, 1258-1266	3.4	4
59	Fluorescence characterization of fractionated dissolved organic matter in the five tributaries of Poyang Lake, China. *Science of the Total Environment*, **2018**, 637-638, 1311-1320	10.2	24
58	Effect of nanomaterial and media physicochemical properties on nanomaterial aggregation kinetics. *NanoImpact*, **2017**, 6, 55-68	5.6	41
57	Citrate-Coated Silver Nanoparticles Growth-Independently Inhibit Aflatoxin Synthesis in Aspergillus parasiticus. *Environmental Science & Technology*, **2017**, 51, 8085-8093	10.3	30
56	Effect of phosphate buffer on aggregation kinetics of citrate-coated silver nanoparticles induced by monovalent and divalent electrolytes. *Science of the Total Environment*, **2017**, 581-582, 268-276	10.2	18
55	Occurrence and Removal of Engineered Nanoparticles in Drinking Water Treatment and Wastewater Treatment Processes. *Separation and Purification Reviews*, **2017**, 46, 255-272	7.3	39
54	Effect of nanomaterial and media physicochemical properties on Ag NM aggregation kinetics. *Journal of Colloid and Interface Science*, **2017**, 487, 192-200	9.3	35
53	Impact of surface coating and environmental conditions on the fate and transport of silver nanoparticles in the aquatic environment. *Science of the Total Environment*, **2016**, 568, 95-106	10.2	48
52	Application of a multi-method approach in characterization of natural aquatic colloids from different sources along Huangpu River in Shanghai, China. *Science of the Total Environment*, **2016**, 554-555, 228-36	10.2	14
51	Modeling nanomaterial fate and uptake in the environment: current knowledge and future trends. *Environmental Science: Nano*, **2016**, 3, 323-345	7.1	86
50	The concentration-dependent behaviour of nanoparticles. *Environmental Chemistry*, **2016**, 13, 1	3.2	49
49	Stability and Aggregation Kinetics of Titania Nanomaterials under Environmentally Realistic Conditions. *Environmental Science & Technology*, **2016**, 50, 8462-72	10.3	28
48	Outdoor urban nanomaterials: The emergence of a new, integrated, and critical field of study. *Science of the Total Environment*, **2016**, 557-558, 740-53	10.2	73
47	The concentration-dependent aggregation of Ag NPs induced by cystine. *Science of the Total Environment*, **2016**, 557-558, 395-403	10.2	28
46	Does natural organic matter increase the bioavailability of cerium dioxide nanoparticles to fish?. *Environmental Chemistry*, **2015**, 12, 673	3.2	2
45	Progress towards the validation of modeled environmental concentrations of engineered nanomaterials by analytical measurements. *Environmental Science: Nano*, **2015**, 2, 421-428	7.1	94
44	Effect of colloids on the occurrence, distribution and photolysis of emerging organic contaminants in wastewaters. *Journal of Hazardous Materials*, **2015**, 299, 241-8	12.8	43

43	An electron microscopy based method for the detection and quantification of nanomaterial number concentration in environmentally relevant media. *Science of the Total Environment*, **2015**, 537, 479-86	10.2	38
42	Transformations of citrate and Tween coated silver nanoparticles reacted with Na$_2$S. *Science of the Total Environment*, **2015**, 502, 344-53	10.2	52
41	Methods for Measuring Concentration (Mass, Surface Area and Number) of Nanomaterials. *Frontiers of Nanoscience*, **2015**, 8, 153-181	0.7	8
40	Association of Arsenic and Phosphorus with Iron Nanoparticles between Streams and Aquifers: Implications for Arsenic Mobility. *Environmental Science & Technology*, **2015**, 49, 14101-9	10.3	23
39	Evaluation of charge and agglomeration behavior of TiO$_2$ nanoparticles in ecotoxicological media. *Science of the Total Environment*, **2015**, 535, 45-53	10.2	43
38	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	11.1	145
37	Modeling nanomaterial environmental fate in aquatic systems. *Environmental Science & Technology*, **2015**, 49, 2587-93	10.3	209
36	Overview of Environmental Nanoscience. *Frontiers of Nanoscience*, **2014**, 7, 1-54	0.7	5
35	Quantitative measurement of the nanoparticle size and number concentration from liquid suspensions by atomic force microscopy. *Environmental Sciences: Processes and Impacts*, **2014**, 16, 1338-47	4.3	49
34	Effect of monovalent and divalent cations, anions and fulvic acid on aggregation of citrate-coated silver nanoparticles. *Science of the Total Environment*, **2013**, 454-455, 119-31	10.2	194
33	Effects of particle size and coating on nanoscale Ag and TiO$_2$ exposure in zebrafish (Danio rerio) embryos. *Nanotoxicology*, **2013**, 7, 1315-24	5.3	90
32	Characterization of natural and manufactured nanoparticles by atomic force microscopy: Effect of analysis mode, environment and sample preparation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 419, 238-247	5.1	36
31	Nanoparticle dispersity in toxicology. *Nature Nanotechnology*, **2013**, 8, 308-9	28.7	74
30	Interspecies comparisons on the uptake and toxicity of silver and cerium dioxide nanoparticles. *Environmental Toxicology and Chemistry*, **2012**, 31, 144-54	3.8	131
29	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. *Chemical Geology*, **2012**, 304-305, 68-82	4.2	94
28	Characterization of cerium oxide nanoparticles-part 1: size measurements. *Environmental Toxicology and Chemistry*, **2012**, 31, 983-93	3.8	59
27	Characterization of cerium oxide nanoparticles-part 2: nonsize measurements. *Environmental Toxicology and Chemistry*, **2012**, 31, 994-1003	3.8	49
26	Rationalizing nanomaterial sizes measured by atomic force microscopy, flow field-flow fractionation, and dynamic light scattering: sample preparation, polydispersity, and particle structure. *Environmental Science & Technology*, **2012**, 46, 6134-42	10.3	123

25	Natural Colloids and Manufactured Nanoparticles in Aquatic and Terrestrial Systems **2011**, 89-129		17
24	Size, speciation and lability of NOM–metal complexes in hyperalkaline cave dripwater. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 7533-7551	5.5	43
23	Aggregation and dispersion of silver nanoparticles in exposure media for aquatic toxicity tests. *Journal of Chromatography A*, **2011**, 1218, 4226-33	4.5	173
22	Flow field-flow fractionation for the analysis and characterization of natural colloids and manufactured nanoparticles in environmental systems: a critical review. *Journal of Chromatography A*, **2011**, 1218, 4078-103	4.5	223
21	Assessment of cultured fish hepatocytes for studying cellular uptake and (eco)toxicity of nanoparticles. *Environmental Chemistry*, **2010**, 7, 36	3.2	20
20	Effects of aqueous exposure to silver nanoparticles of different sizes in rainbow trout. *Toxicological Sciences*, **2010**, 115, 521-34	4.4	265
19	Bioavailability of nanoscale metal oxides TiO(2), CeO(2), and ZnO to fish. *Environmental Science & Technology*, **2010**, 44, 1144-51	10.3	223
18	Characterisation of structural and surface speciation of representative commercially available cerium oxide nanoparticles. *Environmental Chemistry*, **2010**, 7, 377	3.2	40
17	Physico-chemical behaviour and algal toxicity of nanoparticulate CeO2 in freshwater. *Environmental Chemistry*, **2010**, 7, 50	3.2	152
16	Algal testing of titanium dioxide nanoparticles--testing considerations, inhibitory effects and modification of cadmium bioavailability. *Toxicology*, **2010**, 269, 190-7	4.4	247
15	Aggregation and disaggregation of iron oxide nanoparticles: Influence of particle concentration, pH and natural organic matter. *Science of the Total Environment*, **2009**, 407, 2093-101	10.2	410
14	Size fractionation and optical properties of colloids in an organic-rich estuary (Thurso, UK). *Marine Chemistry*, **2009**, 113, 227-237	3.7	33
13	Characterizing manufactured nanoparticles in the environment: multimethod determination of particle sizes. *Environmental Science & Technology*, **2009**, 43, 7277-84	10.3	447
12	Nanoparticles: structure, properties, preparation and behaviour in environmental media. *Ecotoxicology*, **2008**, 17, 326-43	2.9	433
11	Aggregation and surface properties of iron oxide nanoparticles: influence of pH and natural organic matter. *Environmental Toxicology and Chemistry*, **2008**, 27, 1875-82	3.8	287
10	Characterization of natural aquatic colloids (. *Environmental Science & Technology*, **2007**, 41, 1111-7	10.3	103
9	Size fractionation and characterization of natural aquatic colloids and nanoparticles. *Science of the Total Environment*, **2007**, 386, 93-102	10.2	40
8	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. *Environmental Science & Technology*, **2006**, 40, 2156-62	10.3	95

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7	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, 272-81	4.5	88
6	Conformation and size of humic substances: Effects of major cation concentration and type, pH, salinity, and residence time. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 272, 48-55	5.1	184
5	Natural sample fractionation by FlFFF-MALLS-TEM: sample stabilization, preparation, pre-concentration and fractionation. *Journal of Chromatography A*, **2005**, 1093, 156-66	4.5	50
4	Supramolecular structure of humic acids by TEM with improved sample preparation and staining. *Microscopy Research and Technique*, **2005**, 66, 299-306	2.8	55
3	3D characterization of natural colloids by FlFFF-MALLS-TEM. *Analytical and Bioanalytical Chemistry*, **2005**, 383, 549-56	4.4	38
2	Overview of Nanoscience in the Environment1-29		4
1	Natural Colloids and Nanoparticles in Aquatic and Terrestrial Environments109-161		8