

# Stability and Aggregation of Metal Oxide Nanoparticles

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Environmental Occurrences, Behavior, Fate, and Ecological Effects of Nanomaterials: An Introduction to the Special Series. <i>Journal of Environmental Quality</i> , 2010, 39, 1867-1874.	2.0	99
2	Beyond Photovoltaics: Semiconductor Nanoarchitectures for Liquid-Junction Solar Cells. <i>Chemical Reviews</i> , 2010, 110, 6664-6688.	47.7	716
3	Assessment of the physico-chemical behavior of titanium dioxide nanoparticles in aquatic environments using multi-dimensional parameter testing. <i>Environmental Pollution</i> , 2010, 158, 3472-3481.	7.5	87
4	Container to characterization: Impacts of metal oxide handling, preparation, and solution chemistry on particle stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 368, 91-95.	4.7	42
5	Impacts of Metal Oxide Nanoparticles on Marine Phytoplankton. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7329-7334.	10.0	280
6	Measuring the Influence of Solution Chemistry on the Adhesion of Au Nanoparticles to Mica Using Colloid Probe Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 13995-14003.	3.5	27
7	Review: Do engineered nanoparticles pose a significant threat to the aquatic environment?. <i>Critical Reviews in Toxicology</i> , 2010, 40, 653-670.	3.9	277
8	Role of morphology in the aggregation kinetics of ZnO nanoparticles. <i>Water Research</i> , 2010, 44, 2948-2956.	11.3	226
9	Long-Term Effects of Titanium Dioxide Nanoparticles on Nitrogen and Phosphorus Removal from Wastewater and Bacterial Community Shift in Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2011, 45, 7284-7290.	10.0	205
10	Physicochemical Characterization and Ecotoxicological Assessment of CeO <sub>2</sub> Nanoparticles Using Two Aquatic Microorganisms. <i>Toxicological Sciences</i> , 2011, 119, 135-145.	3.1	168
11	Cytotoxicity of Al <sub>2</sub> O <sub>3</sub> Nanoparticles at Low Exposure Levels to a Freshwater Bacterial Isolate. <i>Chemical Research in Toxicology</i> , 2011, 24, 1899-1904.	3.3	68
12	New collector efficiency equation for colloid filtration in both natural and engineered flow conditions. <i>Water Resources Research</i> , 2011, 47, .	4.2	90
13	Effects of ZnO Nanoparticles on Wastewater Biological Nitrogen and Phosphorus Removal. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2826-2832.	10.0	356
14	Nanotechnology Environmental, Health, and Safety Issues. , 2011, , 159-220.		5
15	Exposure, Health and Ecological Effects Review of Engineered Nanoscale Cerium and Cerium Oxide Associated with its Use as a Fuel Additive. <i>Critical Reviews in Toxicology</i> , 2011, 41, 213-229.	3.9	305
16	Nanomaterials in the Environment: From Materials to High-Throughput Screening to Organisms. <i>ACS Nano</i> , 2011, 5, 13-20.	14.6	145
17	Toxicity and Internalization of CuO Nanoparticles to Prokaryotic Alga <i>Microcystis aeruginosa</i> as Affected by Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6032-6040.	10.0	323
18	TiO <sub>2</sub> Nanoparticles in the Marine Environment: Impact on the Toxicity of Tributyltin to Abalone ( <i>Haliotis diversicolor supertexta</i> ) Embryos. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3753-3758.	10.0	184

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19	Analysis of Nanoparticle Agglomeration in Aqueous Suspensions via Constant-Number Monte Carlo Simulation. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9284-9292.	10.0	112
20	Occurrence and removal of titanium at full scale wastewater treatment plants: implications for TiO <sub>2</sub> nanomaterials. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1195.	2.1	345
21	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
22	Evidence for Negative Effects of TiO <sub>2</sub> and ZnO Nanoparticles on Soil Bacterial Communities. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1659-1664.	10.0	437
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25	Influence of Ca <sup>2+</sup> and Suwannee River Humic Acid on aggregation of silicon nanoparticles in aqueous media. <i>Water Research</i> , 2011, 45, 105-112.	11.3	86
26	Long-term effect of ZnO nanoparticles on waste activated sludge anaerobic digestion. <i>Water Research</i> , 2011, 45, 5612-5620.	11.3	260
27	Interactions between Natural Organic Matter and Gold Nanoparticles Stabilized with Different Organic Capping Agents. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3238-3244.	10.0	229
28	Interaction of Nanoparticles with Edible Plants and Their Possible Implications in the Food Chain. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 3485-3498.	5.2	1,037
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33	Magnetic pollen grains as sorbents for facile removal of organic pollutants in aqueous media. <i>Journal of Hazardous Materials</i> , 2011, 194, 53-61.	12.4	37
34	Partitioning behavior and stabilization of hydrophobically coated HfO <sub>2</sub> , ZrO <sub>2</sub> and Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> nanoparticles with natural organic matter reveal differences dependent on crystal structure. <i>Journal of Hazardous Materials</i> , 2011, 196, 302-310.	12.4	9
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36	Effects of material properties on sedimentation and aggregation of titanium dioxide nanoparticles of anatase and rutile in the aqueous phase. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 84-91.	9.4	91

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37	Studies on aggregation behaviour of silver nanoparticles in aqueous matrices: Effect of surface functionalization and matrix composition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 216-224.	4.7	119
38	Aggregation and ecotoxicity of CeO <sub>2</sub> nanoparticles in synthetic and natural waters with variable pH, organic matter concentration and ionic strength. Environmental Pollution, 2011, 159, 970-976.	7.5	161
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44	Application of plasma spectrometry for the analysis of engineered nanoparticles in suspensions and products. Journal of Analytical Atomic Spectrometry, 2011, 26, 1701.	3.0	96
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47	Electrokinetic locomotion due to reaction-induced charge auto-electrophoresis. Journal of Fluid Mechanics, 2011, 680, 31-66.	3.4	125
48	Influence of pH on the transport of nanoscale zinc oxide in saturated porous media. Journal of Nanoparticle Research, 2011, 13, 4035-4047.	1.9	81
49	New insights into nanocomposite adsorbents for water treatment: A case study of polystyrene-supported zirconium phosphate nanoparticles for lead removal. Journal of Nanoparticle Research, 2011, 13, 5355-5364.	1.9	54
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56	Analytical chemistry of metallic nanoparticles in natural environments. TrAC - Trends in Analytical Chemistry, 2011, 30, 528-540.	11.4	152
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58	Impact of CuO NPs to Alga Microcystis Aeruginosa: Effect of Dissolved Organic Matter. Advanced Materials Research, 0, 455-456, 1334-1338.	0.3	0
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78	The effect of inorganic ions on the aggregation kinetics of lab-made TiO <sub>2</sub> nanoparticles in water. <i>Science of the Total Environment</i> , 2012, 435-436, 446-452.	8.0	62
79	Adsorption of perchlorate and other oxyanions onto magnetic permanently confined micelle arrays (Mag-PCMAS). <i>Water Research</i> , 2012, 46, 635-644.	11.3	32
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81	The potential of TiO <sub>2</sub> nanoparticles as carriers for cadmium uptake in <i>Lumbricus variegatus</i> and <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , 2012, 118-119, 1-8.	4.0	78
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90	Influence of natural organic matter on the transport and deposition of zinc oxide nanoparticles in saturated porous media. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 34-43.	9.4	72

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97	Characterization of Engineered Nanoparticles in Natural Waters. <i>Comprehensive Analytical Chemistry</i> , 2012, 59, 169-195.	1.3	1
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99	Clay Particles Destabilize Engineered Nanoparticles in Aqueous Environments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7520-7526.	10.0	218
100	Size-Dependent Uptake of Silver Nanoparticles in <i>Daphnia magna</i> . <i>Environmental Science &amp; Technology</i> , 2012, 46, 11345-11351.	10.0	107
101	Mobility of Capped Silver Nanoparticles under Environmentally Relevant Conditions. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6985-6991.	10.0	112
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108	Metal-based nanoparticles in soil: Fate, behavior, and effects on soil invertebrates. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1679-1692.	4.3	355
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112	A comparative cytotoxicity study of TiO <sub>2</sub> nanoparticles under light and dark conditions at low exposure concentrations. Toxicology Research, 2012, 1, 116.	2.1	134
113	Microscopic and Spectroscopic Methods Applied to the Measurements of Nanoparticles in the Environment. Applied Spectroscopy Reviews, 2012, 47, 180-206.	6.7	33
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125	Comparison on aggregation and sedimentation of titanium dioxide, titanate nanotubes and titanate nanotubes-TiO <sub>2</sub> : Influence of pH, ionic strength and natural organic matter. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 319-328.	4.7	87
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128	Assessing interactions of hydrophilic nanoscale TiO <sub>2</sub> with soil water. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	25
129	The chronic toxicity of ZnO nanoparticles and ZnCl <sub>2</sub> to <i>Daphnia magna</i> and the use of different methods to assess nanoparticle aggregation and dissolution. Nanotoxicology, 2014, 8, 1-9.	3.0	97
130	Toxicity and Transcriptomic Analysis in <i>Hyalella azteca</i> Suggests Increased Exposure and Susceptibility of Epibenthic Organisms to Zinc Oxide Nanoparticles. Environmental Science & Technology, 2013, 47, 9453-9460.	10.0	28
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134	Toxicity of ZnO nanoparticles to the copepod <i>Acartia tonsa</i> , exposed through a phytoplankton diet. Environmental Toxicology and Chemistry, 2013, 32, 1264-1269.	4.3	54
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141	Effects of Material Morphology on the Phototoxicity of Nano-TiO <sub>2</sub> to Bacteria. Environmental Science & Technology, 2013, 47, 12486-12495.	10.0	138
142	Nanoparticles Inhibit DNA Replication by Binding to DNA: Modeling and Experimental Validation. ACS Nano, 2013, 7, 9664-9674.	14.6	93
143	Evaluation of toxicity and oxidative stress induced by copper oxide nanoparticles in the green alga <i>Chlamydomonas reinhardtii</i> . Aquatic Toxicology, 2013, 142-143, 431-440.	4.0	220
144	Citric acid modifies surface properties of commercial CeO <sub>2</sub> nanoparticles reducing their toxicity and cerium uptake in radish ( <i>Raphanus sativus</i> ) seedlings. Journal of Hazardous Materials, 2013, 263, 677-684.	12.4	102
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