

Shikha Garg

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,180
citations

17
h-index

34
g-index

42
ext. papers

1,454
ext. citations

8.6
avg, IF

4.79
L-index

#	Paper	IF	Citations
39	Silver Nanoparticle Reactive Oxygen Species Interactions: Application of a Charging/Discharging Model. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5461-5468	3.8	158
38	Superoxide-mediated formation and charging of silver nanoparticles. <i>Environmental Science & Technology</i> , 2011 , 45, 1428-34	10.3	130
37	H ₂ O ₂ -mediated oxidation of zero-valent silver and resultant interactions among silver nanoparticles, silver ions, and reactive oxygen species. <i>Langmuir</i> , 2012 , 28, 10266-75	4	127
36	Photochemical production of superoxide and hydrogen peroxide from natural organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 4310-4320	5.5	109
35	Hydroquinone-Mediated Redox Cycling of Iron and Concomitant Oxidation of Hydroquinone in Oxidic Waters under Acidic Conditions: Comparison with Iron-Natural Organic Matter Interactions. <i>Environmental Science & Technology</i> , 2015 , 49, 14076-84	10.3	76
34	Superoxide mediated reduction of organically complexed iron(III): comparison of non-dissociative and dissociative reduction pathways. <i>Environmental Science & Technology</i> , 2007 , 41, 3205-12	10.3	50
33	Oxidative Dissolution of Silver Nanoparticles by Chlorine: Implications to Silver Nanoparticle Fate and Toxicity. <i>Environmental Science & Technology</i> , 2016 , 50, 3890-6	10.3	46
32	Production of reactive oxygen species on photolysis of dilute aqueous quinone solutions. <i>Photochemistry and Photobiology</i> , 2007 , 83, 904-13	3.6	45
31	Mechanism and kinetics of dark iron redox transformations in previously photolyzed acidic natural organic matter solutions. <i>Environmental Science & Technology</i> , 2013 , 47, 1861-9	10.3	44
30	Iron uptake by the ichthyotoxic <i>Chattonella marina</i> (Raphidophyceae): impact of superoxide generation. <i>Journal of Phycology</i> , 2007 , 43, 978-991	3	37
29	Mechanistic insights into the catalytic ozonation process using iron oxide-impregnated activated carbon. <i>Water Research</i> , 2020 , 177, 115785	12.5	31
28	Mechanistic insights into iron redox transformations in the presence of natural organic matter: Impact of pH and light. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 165, 14-34	5.5	30
27	Iron redox transformations in continuously photolyzed acidic solutions containing natural organic matter: kinetic and mechanistic insights. <i>Environmental Science & Technology</i> , 2013 , 47, 9190-7	10.3	27
26	Effects of Good's Buffers and pH on the Structural Transformation of Zero Valent Iron and the Oxidative Degradation of Contaminants. <i>Environmental Science & Technology</i> , 2018 , 52, 1393-1403	10.3	25
25	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. <i>Environmental Science: Nano</i> , 2019 , 6, 1674-1687	7.1	22
24	Mechanistic Insights into Free Chlorine and Reactive Oxygen Species Production on Irradiation of Semiconducting Silver Chloride Particles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26659-26670	3.8	20
23	Impact of pH on Iron Redox Transformations in Simulated Freshwaters Containing Natural Organic Matter. <i>Environmental Science & Technology</i> , 2018 , 52, 13184-13194	10.3	18

22	Superoxide-mediated reduction of organically complexed iron(III): Impact of pH and competing cations (Ca ²⁺). <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5620-5634	5.5	17
21	Impact of light and Suwanee River Fulvic Acid on O and HO Mediated Oxidation of Silver Nanoparticles in Simulated Natural Waters. <i>Environmental Science & Technology</i> , 2019 , 53, 6688-6698	10.3	15
20	Light-Mediated Reactive Oxygen Species Generation and Iron Redox Transformations in the Presence of Exudate from the Cyanobacterium <i>Microcystis aeruginosa</i> . <i>Environmental Science & Technology</i> , 2017 , 51, 8384-8395	10.3	15
19	Chlorine-Mediated Regeneration of Semiconducting AgCl(s) Following Light-Induced Ag ⁰ Formation: Implications to Contaminant Degradation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5988-5996	3.8	14
18	Copper Inhibition of Triplet-Induced Reactions Involving Natural Organic Matter. <i>Environmental Science & Technology</i> , 2018 , 52, 2742-2750	10.3	13
17	Redox Transformations of Iron in the Presence of Exudate from the Cyanobacterium <i>Microcystis aeruginosa</i> under Conditions Typical of Natural Waters. <i>Environmental Science & Technology</i> , 2017 , 51, 3287-3297	10.3	12
16	Modified Double Potential Step Chronoamperometry (DPSC) Method for As(III) Electro-oxidation and Concomitant As(V) Adsorption from Groundwaters. <i>Environmental Science & Technology</i> , 2019 , 53, 9715-9724	10.3	12
15	Is Superoxide-Mediated Fe(III) Reduction Important in Sunlit Surface Waters?. <i>Environmental Science & Technology</i> , 2019 , 53, 13179-13190	10.3	12
14	Selective Arsenic Removal from Groundwaters Using Redox-Active Polyvinylferrocene-Functionalized Electrodes: Role of Oxygen. <i>Environmental Science & Technology</i> , 2020 , 54, 12081-12091	10.3	12
13	Influence of pH on the Kinetics and Mechanism of Photoreductive Dissolution of Amorphous Iron Oxyhydroxide in the Presence of Natural Organic Matter: Implications to Iron Bioavailability in Surface Waters. <i>Environmental Science & Technology</i> , 2020 , 54, 6771-6780	10.3	11
12	Effect of Chloride and Suwanee River Fulvic Acid on Cu Speciation: Implications to Cu Redox Transformations in Simulated Natural Waters. <i>Environmental Science & Technology</i> , 2020 , 54, 2334-2343	10.3	11
11	Iron Redox Transformations in the Presence of Natural Organic Matter: Effect of Calcium. <i>Environmental Science & Technology</i> , 2017 , 51, 10413-10422	10.3	9
10	Impact of <i>Microcystis aeruginosa</i> Exudate on the Formation and Reactivity of Iron Oxide Particles Following Fe(II) and Fe(III) Addition. <i>Environmental Science & Technology</i> , 2017 , 51, 5500-5510	10.3	6
9	Pathways Contributing to the Formation and Decay of Ferrous Iron in Sunlit Natural Waters. <i>ACS Symposium Series</i> , 2011 , 153-176	0.4	6
8	Copper Inhibition of Triplet-Sensitized Phototransformation of Phenolic and Amine Contaminants. <i>Environmental Science & Technology</i> , 2020 , 54, 9980-9989	10.3	6
7	Contaminant degradation by irradiated semiconducting silver chloride particles: kinetics and modelling. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 366-72	9.3	4
6	In vitro characterization of reactive oxygen species (ROS) generation by the commercially available Mesosilver [®] dietary supplement. <i>Environmental Science: Nano</i> , 2018 , 5, 2686-2698	7.1	4
5	Transformation of AgCl Particles under Conditions Typical of Natural Waters: Implications for Oxidant Generation. <i>Environmental Science & Technology</i> , 2018 , 52, 11621-11631	10.3	2

4	Kinetic Modeling-Assisted Mechanistic Understanding of the Catalytic Ozonation Process Using Cu-Al Layered Double Hydroxides and Copper Oxide Catalysts. <i>Environmental Science & Technology</i> , 2021 , 55, 13274-13285	10.3	1
3	Influence of salinity on the heterogeneous catalytic ozonation process: Implications to treatment of high salinity wastewater. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127255	12.8	1
2	Comparison of Performance of Conventional Ozonation and Heterogeneous Catalytic Ozonation Processes in Phosphate- and Bicarbonate-Buffered Solutions. <i>ACS ES&T Engineering</i> , 2022 , 2, 210-221		0
1	Influence of cations on As(III) removal from simulated groundwaters by double potential step chronoamperometry (DPSC) employing polyvinylferrocene (PVF) functionalized electrodes. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127472	12.8	0