Shikha Garg

List of Publications by Year in Descending Order

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	Comparison of Performance of Conventional Ozonation and Heterogeneous Catalytic Ozonation Processes in Phosphate- and Bicarbonate-Buffered Solutions. *ACS ES&T Engineering*, **2022**, 2, 210-221		0
38	Influence of cations on As(III) removal from simulated groundwaters by double potential step chronoamperometry (DPSC) employing polyvinylferrocene (PVF) functionalized electrodes. *Journal of Hazardous Materials*, **2022**, 424, 127472	12.8	0
37	Influence of salinity on the heterogeneous catalytic ozonation process: Implications to treatment of high salinity wastewater. *Journal of Hazardous Materials*, **2022**, 423, 127255	12.8	1
36	Kinetic Modeling-Assisted Mechanistic Understanding of the Catalytic Ozonation Process Using Cu-Al Layered Double Hydroxides and Copper Oxide Catalysts. *Environmental Science & Technology*, **2021**, 55, 13274-13285	10.3	1
35	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. *Environmental Science & Technology*, **2020**, 54, 6771-6780	10.3	11
34	Effect of Chloride and Suwannee River Fulvic Acid on Cu Speciation: Implications to Cu Redox Transformations in Simulated Natural Waters. *Environmental Science & Technology*, **2020**, 54, 2334-2343	10.3	11
33	Mechanistic insights into the catalytic ozonation process using iron oxide-impregnated activated carbon. *Water Research*, **2020**, 177, 115785	12.5	31
32	Copper Inhibition of Triplet-Sensitized Phototransformation of Phenolic and Amine Contaminants. *Environmental Science & Technology*, **2020**, 54, 9980-9989	10.3	6
31	Selective Arsenic Removal from Groundwaters Using Redox-Active Polyvinylferrocene-Functionalized Electrodes: Role of Oxygen. *Environmental Science & Technology*, **2020**, 54, 12081-12091	10.3	12
30	Impact of light and Suwanee River Fulvic Acid on O and HO Mediated Oxidation of Silver Nanoparticles in Simulated Natural Waters. *Environmental Science & Technology*, **2019**, 53, 6688-6698	10.3	15
29	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. *Environmental Science: Nano*, **2019**, 6, 1674-1687	7.1	22
28	Modified Double Potential Step Chronoamperometry (DPSC) Method for As(III) Electro-oxidation and Concomitant As(V) Adsorption from Groundwaters. *Environmental Science & Technology*, **2019**, 53, 9715-9724	10.3	12
27	Is Superoxide-Mediated Fe(III) Reduction Important in Sunlit Surface Waters?. *Environmental Science & Technology*, **2019**, 53, 13179-13190	10.3	12
26	Copper Inhibition of Triplet-Induced Reactions Involving Natural Organic Matter. *Environmental Science & Technology*, **2018**, 52, 2742-2750	10.3	13
25	Effects of Good's Buffers and pH on the Structural Transformation of Zero Valent Iron and the Oxidative Degradation of Contaminants. *Environmental Science & Technology*, **2018**, 52, 1393-1403	10.3	25
24	In vitro characterization of reactive oxygen species (ROS) generation by the commercially available Mesosilver□dietary supplement. *Environmental Science: Nano*, **2018**, 5, 2686-2698	7.1	4
23	Impact of pH on Iron Redox Transformations in Simulated Freshwaters Containing Natural Organic Matter. *Environmental Science & Technology*, **2018**, 52, 13184-13194	10.3	18

22	Transformation of AgCl Particles under Conditions Typical of Natural Waters: Implications for Oxidant Generation. *Environmental Science & Technology*, **2018**, 52, 11621-11631	10.3	2
21	Redox Transformations of Iron in the Presence of Exudate from the Cyanobacterium Microcystis aeruginosa under Conditions Typical of Natural Waters. *Environmental Science & Technology*, **2017**, 51, 3287-3297	10.3	12
20	Impact of Microcystis aeruginosa Exudate on the Formation and Reactivity of Iron Oxide Particles Following Fe(II) and Fe(III) Addition. *Environmental Science & Technology*, **2017**, 51, 5500-5510	10.3	6
19	Iron Redox Transformations in the Presence of Natural Organic Matter: Effect of Calcium. *Environmental Science & Technology*, **2017**, 51, 10413-10422	10.3	9
18	Light-Mediated Reactive Oxygen Species Generation and Iron Redox Transformations in the Presence of Exudate from the Cyanobacterium Microcystis aeruginosa. *Environmental Science & Technology*, **2017**, 51, 8384-8395	10.3	15
17	Oxidative Dissolution of Silver Nanoparticles by Chlorine: Implications to Silver Nanoparticle Fate and Toxicity. *Environmental Science & Technology*, **2016**, 50, 3890-6	10.3	46
16	Chlorine-Mediated Regeneration of Semiconducting AgCl(s) Following Light-Induced Ag0 Formation: Implications to Contaminant Degradation. *Journal of Physical Chemistry C*, **2016**, 120, 5988-5996	3.8	14
15	Contaminant degradation by irradiated semiconducting silver chloride particles: kinetics and modelling. *Journal of Colloid and Interface Science*, **2015**, 446, 366-72	9.3	4
14	Mechanistic insights into iron redox transformations in the presence of natural organic matter: Impact of pH and light. *Geochimica Et Cosmochimica Acta*, **2015**, 165, 14-34	5.5	30
13	Hydroquinone-Mediated Redox Cycling of Iron and Concomitant Oxidation of Hydroquinone in Oxic Waters under Acidic Conditions: Comparison with Iron-Natural Organic Matter Interactions. *Environmental Science & Technology*, **2015**, 49, 14076-84	10.3	76
12	Mechanistic Insights into Free Chlorine and Reactive Oxygen Species Production on Irradiation of Semiconducting Silver Chloride Particles. *Journal of Physical Chemistry C*, **2014**, 118, 26659-26670	3.8	20
11	Iron redox transformations in continuously photolyzed acidic solutions containing natural organic matter: kinetic and mechanistic insights. *Environmental Science & Technology*, **2013**, 47, 9190-7	10.3	27
10	Mechanism and kinetics of dark iron redox transformations in previously photolyzed acidic natural organic matter solutions. *Environmental Science & Technology*, **2013**, 47, 1861-9	10.3	44
9	H2O2-mediated oxidation of zero-valent silver and resultant interactions among silver nanoparticles, silver ions, and reactive oxygen species. *Langmuir*, **2012**, 28, 10266-75	4	127
8	Silver Nanoparticle–Reactive Oxygen Species Interactions: Application of a Charging–Discharging Model. *Journal of Physical Chemistry C*, **2011**, 115, 5461-5468	3.8	158
7	Photochemical production of superoxide and hydrogen peroxide from natural organic matter. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 4310-4320	5.5	109
6	Superoxide-mediated formation and charging of silver nanoparticles. *Environmental Science & Technology*, **2011**, 45, 1428-34	10.3	130
5	Pathways Contributing to the Formation and Decay of Ferrous Iron in Sunlit Natural Waters. *ACS Symposium Series*, **2011**, 153-176	0.4	6

4	Superoxide mediated reduction of organically complexed iron(III): comparison of non-dissociative and dissociative reduction pathways. *Environmental Science & Technology*, **2007**, 41, 3205-12	10.3	50
3	Production of reactive oxygen species on photolysis of dilute aqueous quinone solutions. *Photochemistry and Photobiology*, **2007**, 83, 904-13	3.6	45
2	Iron uptake by the ichthyotoxic Chattonella marina (Raphidophyceae): impact of superoxide generation1. *Journal of Phycology*, **2007**, 43, 978-991	3	37
1	Superoxide-mediated reduction of organically complexed iron(III): Impact of pH and competing cations (Ca2+). *Geochimica Et Cosmochimica Acta*, **2007**, 71, 5620-5634	5.5	17