

Subhasis Ghoshal

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.

87
papers

2,928
citations

31
h-index

51
g-index

95
ext. papers

3,509
ext. citations

8.2
avg, IF

5.79
L-index

#	Paper	IF	Citations
87	Enhanced reductive dechlorination of trichloroethylene by sulfidated nanoscale zerovalent iron. <i>Water Research</i> , 2015 , 78, 144-53	12.5	199
86	Systematic comparison of the size, surface characteristics and colloidal stability of zero valent iron nanoparticles pre- and post-grafted with common polymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 390, 95-104	5.1	132
85	Aggregation and deposition kinetics of carboxymethyl cellulose-modified zero-valent iron nanoparticles in porous media. <i>Water Research</i> , 2012 , 46, 1735-44	12.5	115
84	Amendment of Agricultural Soil with Metal Nanoparticles: Effects on Soil Enzyme Activity and Microbial Community Composition. <i>Environmental Science & Technology</i> , 2018 , 52, 1908-1918	10.3	114
83	Mathematical modeling of CO ₂ uptake by concrete during accelerated carbonation curing. <i>Cement and Concrete Research</i> , 2015 , 67, 1-10	10.3	103
82	Assessment of transport of two polyelectrolyte-stabilized zero-valent iron nanoparticles in porous media. <i>Journal of Contaminant Hydrology</i> , 2010 , 118, 143-51	3.9	98
81	Straining of polyelectrolyte-stabilized nanoscale zero valent iron particles during transport through granular porous media. <i>Water Research</i> , 2014 , 50, 80-9	12.5	94
80	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , 2020 , 1, 416-425	14.4	90
79	Biodegradation of Naphthalene from Coal Tar and Heptamethylnonane in Mixed Batch Systems. <i>Environmental Science & Technology</i> , 1996 , 30, 1282-1291	10.3	84
78	Interfacial films in coal tar nonaqueous-phase liquid-water systems. <i>Environmental Science & Technology</i> , 1993 , 27, 2914-2918	10.3	84
77	Deposition of carboxymethylcellulose-coated zero-valent iron nanoparticles onto silica: roles of solution chemistry and organic molecules. <i>Langmuir</i> , 2010 , 26, 12832-40	4	80
76	Exposing culprit organic pollutants: a review. <i>Journal of Microbiological Methods</i> , 2002 , 49, 103-19	2.8	75
75	Rhamnolipid biosurfactant and soy protein act as effective stabilizers in the aggregation and transport of palladium-doped zerovalent iron nanoparticles in saturated porous media. <i>Environmental Science & Technology</i> , 2013 , 47, 13355-64	10.3	74
74	Optimal Design of Sulfidated Nanoscale Zerovalent Iron for Enhanced Trichloroethene Degradation. <i>Environmental Science & Technology</i> , 2018 , 52, 11078-11086	10.3	71
73	CO ₂ Sequestration in Concrete through Accelerated Carbonation Curing in a Flow-through Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1143-1149	3.9	70
72	Characterization of a new solvent-responsive gene locus in <i>Pseudomonas putida</i> F1 and its functionalization as a versatile biosensor. <i>Environmental Microbiology</i> , 2003 , 5, 1309-27	5.2	70
71	Biodegradation of semi- and non-volatile petroleum hydrocarbons in aged, contaminated soils from a sub-Arctic site: laboratory pilot-scale experiments at site temperatures. <i>Chemosphere</i> , 2010 , 80, 319-26	8.4	66

70	Selective solubilization of polycyclic aromatic hydrocarbons from multicomponent nonaqueous-phase liquids into nonionic surfactant micelles. <i>Environmental Science & Technology</i> , 2004 , 38, 5878-87	10.3	52
69	Chemical Characterization of Coal Tar-Water Interfacial Films. <i>Environmental Science & Technology</i> , 1996 , 30, 1014-1022	10.3	46
68	Pilot-scale bioremediation of a petroleum hydrocarbon-contaminated clayey soil from a sub-Arctic site. <i>Journal of Hazardous Materials</i> , 2014 , 280, 595-602	12.8	44
67	Physico-Chemical Processes Limiting CO ₂ Uptake in Concrete during Accelerated Carbonation Curing. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5529-5537	3.9	43
66	Mass Transfer and Bioavailability of PAH Compounds in Coal Tar NAPL-Slurry Systems. 2. Experimental Evaluations. <i>Environmental Science & Technology</i> , 1997 , 31, 2268-2276	10.3	43
65	New Insights into the Degradation Mechanism of Perfluorooctanoic Acid by Persulfate from Density Functional Theory and Experimental Data. <i>Environmental Science & Technology</i> , 2019 , 53, 8672-8681	10.3	40
64	Dissolution Behavior of Silver Nanoparticles and Formation of Secondary Silver Nanoparticles in Municipal Wastewater by Single-Particle ICP-MS. <i>Environmental Science & Technology</i> , 2016 , 50, 13318-13327	10.3	39
63	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019 , 6, 1283-1302	7.1	38
62	Effects of Rhamnolipid and Carboxymethylcellulose Coatings on Reactivity of Palladium-Doped Nanoscale Zerovalent Iron Particles. <i>Environmental Science & Technology</i> , 2016 , 50, 1812-20	10.3	38
61	A comparison of the effects of natural organic matter on sulfidated and nonsulfidated nanoscale zerovalent iron colloidal stability, toxicity, and reactivity to trichloroethylene. <i>Science of the Total Environment</i> , 2019 , 671, 254-261	10.2	37
60	Reduced transport potential of a palladium-doped zero valent iron nanoparticle in a water saturated loamy sand. <i>Water Research</i> , 2015 , 68, 354-63	12.5	37
59	Method for the direct observation and quantification of survival of bacteria attached to negatively or positively charged surfaces in an aqueous medium. <i>Environmental Science & Technology</i> , 2011 , 45, 8345-51	10.3	37
58	A modified microbial adhesion to hydrocarbons assay to account for the presence of hydrocarbon droplets. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 492-6	9.3	37
57	Transformation of novel polyfluoroalkyl substances (PFASs) as co-contaminants during biopile remediation of petroleum hydrocarbons. <i>Journal of Hazardous Materials</i> , 2019 , 362, 140-147	12.8	33
56	Petroleum hydrocarbon biodegradation under seasonal freeze-thaw soil temperature regimes in contaminated soils from a sub-Arctic site. <i>Environmental Science & Technology</i> , 2011 , 45, 1061-6	10.3	31
55	Do stressful conditions make adaptation difficult? Guppies in the oil-polluted environments of southern Trinidad. <i>Evolutionary Applications</i> , 2015 , 8, 854-70	4.8	30
54	Comparison of the effects of variable site temperatures and constant incubation temperatures on the biodegradation of petroleum hydrocarbons in pilot-scale experiments with field-aged contaminated soils from a cold regions site. <i>Chemosphere</i> , 2011 , 82, 872-8	8.4	30
53	Micellar solubilization of naphthalene and phenanthrene from nonaqueous-phase liquids. <i>Environmental Science & Technology</i> , 2002 , 36, 3901-7	10.3	30

52	Epigenetic Toxicity of a Mixture of Polycyclic Aromatic Hydrocarbons on Gap Junctional Intercellular Communication Before and After Biodegradation. <i>Environmental Science & Technology</i> , 1999 , 33, 1044-1050	10.3	28
51	Effects of diurnal temperature variation on microbial community and petroleum hydrocarbon biodegradation in contaminated soils from a sub-Arctic site. <i>Environmental Microbiology</i> , 2015 , 17, 4916-28	5.2	27
50	Bioaccessible Porosity in Soil Aggregates and Implications for Biodegradation of High Molecular Weight Petroleum Compounds. <i>Environmental Science & Technology</i> , 2015 , 49, 14368-75	10.3	24
49	Sorption of Perfluoroalkyl Acids to Fresh and Aged Nanoscale Zerovalent Iron Particles. <i>Environmental Science & Technology</i> , 2018 , 52, 6300-6308	10.3	23
48	Reduction of benzene and naphthalene mass transfer from crude oils by aging-induced interfacial films. <i>Environmental Science & Technology</i> , 2004 , 38, 2102-10	10.3	23
47	Additions and corrections: interfacial films in coal tar nonaqueous-phase liquid-water systems. <i>Environmental Science & Technology</i> , 1994 , 28, 756	10.3	23
46	Biodegradation of petroleum hydrocarbons in contaminated clayey soils from a sub-arctic site: the role of aggregate size and microstructure. <i>Chemosphere</i> , 2013 , 91, 1620-6	8.4	22
45	The effects of viscosity of carboxymethyl cellulose on aggregation and transport of nanoscale zerovalent iron. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 481, 451-459	5.1	21
44	Three-dimensional visualization and quantification of non-aqueous phase liquid volumes in natural porous media using a medical X-ray Computed Tomography scanner. <i>Journal of Contaminant Hydrology</i> , 2007 , 93, 96-110	3.9	21
43	Transformation of 6:2 Fluorotelomer Sulfonate by Cobalt(II)-Activated Peroxymonosulfate. <i>Environmental Science & Technology</i> , 2020 , 54, 4631-4640	10.3	20
42	Short-term inactivation rates of selected Gram-positive and Gram-negative bacteria attached to metal oxide mineral surfaces: role of solution and surface chemistry. <i>Environmental Science & Technology</i> , 2013 , 47, 5729-37	10.3	20
41	Bacterial adhesion to hydrocarbons: role of asphaltenes and resins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 219-26	6	20
40	Bioavailability of hydrophobic organic compounds from nonaqueous-phase liquids: The biodegradation of naphthalene from coal tar. <i>Environmental Toxicology and Chemistry</i> , 1996 , 15, 1894-1900	3.8	20
39	Transport of carboxymethyl cellulose-coated zerovalent iron nanoparticles in a sand tank: Effects of sand grain size, nanoparticle concentration and injection velocity. <i>Chemosphere</i> , 2016 , 150, 8-16	8.4	20
38	Solubilization kinetics for polycyclic aromatic hydrocarbons transferring from a non-aqueous phase liquid to non-ionic surfactant solutions. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 298-306	9.3	19
37	Sulfidation of nanoscale zerovalent iron in the presence of two organic macromolecules and its effects on trichloroethene degradation. <i>Environmental Science: Nano</i> , 2018 , 5, 782-791	7.1	18
36	Transport, motility, biofilm forming potential and survival of <i>Bacillus subtilis</i> exposed to cold temperature and freeze-thaw. <i>Water Research</i> , 2014 , 58, 239-47	12.5	18
35	Role of cold climate and freeze-thaw on the survival, transport, and virulence of <i>Yersinia enterocolitica</i> . <i>Environmental Science & Technology</i> , 2013 , 47, 14169-77	10.3	17

34	Phase Transfer of Palladized Nanoscale Zerovalent Iron for Environmental Remediation of Trichloroethene. <i>Environmental Science & Technology</i> , 2016 , 50, 8631-9	10.3	16
33	Fate and inhibitory effect of silver nanoparticles in high rate moving bed biofilm reactors. <i>Science of the Total Environment</i> , 2019 , 647, 1199-1210	10.2	15
32	Comparison of the transport of the aggregates of nanoscale zerovalent iron under vertical and horizontal flow. <i>Chemosphere</i> , 2016 , 144, 1398-407	8.4	14
31	Biodegradation kinetics of naphthalene in nonaqueous phase liquid-water mixed batch systems: Comparison of model predictions and experimental results 1998 , 57, 356-366		14
30	Use of a whole-cell biosensor to assess the bioavailability enhancement of aromatic hydrocarbon compounds by nonionic surfactants. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 86-98	4.9	14
29	Correlation Equation for Predicting the Single-Collector Contact Efficiency of Colloids in a Horizontal Flow. <i>Langmuir</i> , 2015 , 31, 7210-9	4	13
28	Selective biostimulation of cold- and salt-tolerant hydrocarbon-degrading <i>Dietzia maris</i> in petroleum-contaminated sub-Arctic soils with high salinity. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 294-304	3.5	13
27	Growth and Attachment-Facilitated Entry of Bacteria into Submicrometer Pores Can Enhance Bioremediation and Oil Recovery in Low-Permeability and Microporous Media. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 399-403	11	12
26	The role of interfacial films in the mass transfer of naphthalene from creosotes to water. <i>Journal of Contaminant Hydrology</i> , 2004 , 74, 283-98	3.9	12
25	Recent Advances in Sulfidated Zerovalent Iron for Contaminant Transformation. <i>Environmental Science & Technology</i> , 2021 , 55, 8464-8483	10.3	12
24	Interaction between palladium-doped zerovalent iron nanoparticles and biofilm in granular porous media: characterization, transport and viability. <i>Environmental Science: Nano</i> , 2016 , 3, 127-137	7.1	11
23	A rhamnolipid biosurfactant increased bacterial population size but hindered hydrocarbon biodegradation in weathered contaminated soils. <i>Science of the Total Environment</i> , 2021 , 778, 145441	10.2	10
22	Elaboration of a core@shell bimagnetic nanoadsorbent (CoFe ₂ O ₄ @Fe ₂ O ₃) for the removal of As(V) from water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 600, 125002	5.1	8
21	Respiratory quotients as a useful indicator of the enhancement of petroleum hydrocarbon biodegradation in field-aged contaminated soils in cold climates. <i>Cold Regions Science and Technology</i> , 2014 , 106-107, 110-119	3.8	8
20	Naphthalene biodegradation from non-aqueous-phase liquids in batch and column systems: comparison of biokinetic rate coefficients. <i>Biotechnology Progress</i> , 2003 , 19, 844-52	2.8	8
19	Self-Assembled Surfactant-Templated Synthesis of Porous Hollow Silica Nanoparticles: Mechanism of Formation and Feasibility of Post-Synthesis Nanoencapsulation. <i>Langmuir</i> , 2020 , 36, 14633-14643	4	7
18	Uptake and Translocation of Mesoporous SiO ₂ -Coated ZnO Nanoparticles to Following Foliar Application. <i>Environmental Science & Technology</i> , 2021 , 55, 13551-13560	10.3	7
17	Natural freeze-thaw cycles may increase the risk associated with contamination in surface and groundwater environments. <i>Water Research X</i> , 2018 , 1, 100005	8.1	7

16	Anaerobic Biodegradation of Trichloroethylene Sorbed by a Surrogate Soil Organic Matter. <i>Journal of Environmental Quality</i> , 2000 , 29, 1033-1040	3.4	6
15	Cadmium-Containing Quantum Dots Used in Electronic Displays: Implications for Toxicity and Environmental Transformations. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8417-8428	5.6	5
14	Impacts of Continuous Inflow of Low Concentrations of Silver Nanoparticles on Biological Performance and Microbial Communities of Aerobic Heterotrophic Wastewater Biofilm. <i>Environmental Science & Technology</i> , 2019 , 53, 9148-9159	10.3	4
13	Mobility of solid and porous hollow SiO nanoparticles in saturated porous media: Impacts of surface and particle structure. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 480-490	9.3	4
12	Acid Hydrolysis Lignin as a Sorbent for Naphthalene. <i>Water Quality Research Journal of Canada</i> , 2001 , 36, 719-735	1.7	3
11	Role of Photodegradation in Pentachlorophenol Decontamination in Soils. <i>Annals of the New York Academy of Sciences</i> , 1992 , 665, 412-422	6.5	3
10	Soil Enzyme Activities as an Integral Part of the Environmental Risk Assessment of Nanopesticides. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 8514-8516	5.7	3
9	Bioavailability of hydrophobic organic compounds from nonaqueous-phase liquids: The biodegradation of naphthalene from coal tar 1996 , 15, 1894		2
8	A comprehensive assessment of the degradation of C1 and C2 chlorinated hydrocarbons by sulfidated nanoscale zerovalent iron. <i>Water Research</i> , 2021 , 201, 117328	12.5	2
7	Salt selected for hydrocarbon-degrading bacteria and enhanced hydrocarbon biodegradation in slurry bioreactors. <i>Water Research</i> , 2021 , 202, 117424	12.5	2
6	Density Functional Theory Calculations Decipher Complex Reaction Pathways of 6:2 Fluorotelomer Sulfonate to Perfluoroalkyl Carboxylates Initiated by Hydroxyl Radical. <i>Environmental Science & Technology</i> , 2021 ,	10.3	2
5	Characterizing the effects of titanium dioxide and silver nanoparticles released from painted surfaces due to weathering on zebrafish (). <i>Nanotoxicology</i> , 2021 , 15, 527-541	5.3	1
4	Role of tactic response on the mobilization of motile bacteria through micrometer-sized pores.. <i>Science of the Total Environment</i> , 2022 , 832, 154938	10.2	1
3	Development of an LC-MS-based method to study the fate of nanoencapsulated pesticides in soils and strawberry plant.. <i>Talanta</i> , 2021 , 239, 123093	6.2	0
2	SHEDDING LIGHT ON THE BIOAVAILABILITY OF ORGANIC POLLUTANTS 2007 , 105-124		
1	Inorganic Porous Nanoparticles as Pesticide or Nutrient Carriers 2022 , 363-390		