

Amitava Mukherjee

List of Publications by Year in descending order

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341
papers

13,747
citations

20817

60
h-index

33894

99
g-index

345
all docs

345
docs citations

345
times ranked

15106
citing authors

#	ARTICLE	IF	CITATIONS
1	Genotoxicity of silver nanoparticles in <i>Allium cepa</i> . <i>Science of the Total Environment</i> , 2009, 407, 5243-5246.	8.0	522
2	Biomimetic synthesis of silver nanoparticles by <i>Citrus limon</i> (lemon) aqueous extract and theoretical prediction of particle size. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 152-159.	5.0	513
3	Ultrasonic emulsification of food-grade nanoemulsion formulation and evaluation of its bactericidal activity. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 338-344.	8.2	343
4	Cytogenetic and genotoxic effects of zinc oxide nanoparticles on root cells of <i>Allium cepa</i> . <i>Journal of Hazardous Materials</i> , 2011, 190, 613-621.	12.4	329
5	Process variables in biomimetic synthesis of silver nanoparticles by aqueous extract of <i>Azadirachta indica</i> (Neem) leaves. <i>Journal of Nanoparticle Research</i> , 2010, 12, 237-246.	1.9	316
6	Neem oil (<i>Azadirachta indica</i>) nanoemulsion—a potent larvicidal agent against <i>Culex quinquefasciatus</i> . <i>Pest Management Science</i> , 2012, 68, 158-163.	3.4	248
7	Antimicrobial sensitivity of <i>Escherichia coli</i> to alumina nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 282-286.	3.3	238
8	Studies on interaction of colloidal Ag nanoparticles with Bovine Serum Albumin (BSA). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 32-37.	5.0	228
9	Studies on toxicity of aluminum oxide (Al ₂ O ₃) nanoparticles to microalgae species: <i>Scenedesmus</i> sp. and <i>Chlorella</i> sp.. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3287-3299.	1.9	217
10	Arsenic groundwater contamination and its health effects in the state of Uttar Pradesh (UP) in upper and middle Ganga plain, India: A severe danger. <i>Science of the Total Environment</i> , 2006, 370, 310-322.	8.0	195
11	Eugenol-loaded antimicrobial nanoemulsion preserves fruit juice against, microbial spoilage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 392-397.	5.0	194
12	Nanoemulsion of eucalyptus oil and its larvicidal activity against <i>Culex quinquefasciatus</i> . <i>Bulletin of Entomological Research</i> , 2014, 104, 393-402.	1.0	158
13	Effects of ZnO nanoparticles in plants: Cytotoxicity, genotoxicity, deregulation of antioxidant defenses, and cell-cycle arrest. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016, 807, 25-32.	1.7	158
14	Assessment on interactive perspectives of nanoplastics with plasma proteins and the toxicological impacts of virgin, coronated and environmentally released-nanoplastics. <i>Scientific Reports</i> , 2019, 9, 8860.	3.3	158
15	Ultrasonic emulsification of eucalyptus oil nanoemulsion: Antibacterial activity against <i>Staphylococcus aureus</i> and wound healing activity in Wistar rats. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1044-1049.	8.2	153
16	In Vivo Genotoxicity Assessment of Titanium Dioxide Nanoparticles by <i>Allium cepa</i> Root Tip Assay at High Exposure Concentrations. <i>PLoS ONE</i> , 2014, 9, e87789.	2.5	152
17	Ecotoxicity study of titania (TiO ₂) NPs on two microalgae species: <i>Scenedesmus</i> sp. and <i>Chlorella</i> sp.. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 1180-1187.	6.0	144
18	Cinnamon Oil Nanoemulsion Formulation by Ultrasonic Emulsification: Investigation of Its Bactericidal Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 114-122.	0.9	144

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19	A review on tetracycline removal from aqueous systems by advanced treatment techniques. <i>RSC Advances</i> , 2020, 10, 27081-27095.	3.6	144
20	Antibacterial Applications of Silver Nanoparticles Synthesized by Aqueous Extract of <i>Azadirachta Indica</i> ; (Neem) Leaves. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 93-98.	1.1	143
21	Arsenic burden of cooked rice: Traditional and modern methods. <i>Food and Chemical Toxicology</i> , 2006, 44, 1823-1829.	3.6	141
22	Formulation of water-dispersible nanopermethrin for larvicidal applications. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1932-1936.	6.0	137
23	A comparative cytotoxicity study of TiO ₂ nanoparticles under light and dark conditions at low exposure concentrations. <i>Toxicology Research</i> , 2012, 1, 116.	2.1	134
24	Groundwater arsenic contamination in Bangladesh—21 Years of research. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 31, 237-248.	3.0	130
25	Studies on aggregation behaviour of silver nanoparticles in aqueous matrices: Effect of surface functionalization and matrix composition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 390, 216-224.	4.7	119
26	Combined toxicity of two crystalline phases (anatase and rutile) of Titania nanoparticles towards freshwater microalgae: <i>Chlorella</i> sp. <i>Aquatic Toxicology</i> , 2015, 161, 154-169.	4.0	116
27	Selective colorimetric detection of nanomolar Cr (VI) in aqueous solutions using unmodified silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 365-371.	7.8	114
28	Biodegradable polymer based encapsulation of neem oil nanoemulsion for controlled release of Aza-A. <i>Carbohydrate Polymers</i> , 2012, 90, 1750-1756.	10.2	110
29	Kinetic evolution studies of silver nanoparticles in a bio-based green synthesis process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 212-216.	4.7	107
30	Cytotoxicity of aluminium oxide nanoparticles towards fresh water algal isolate at low exposure concentrations. <i>Aquatic Toxicology</i> , 2013, 132-133, 34-45.	4.0	106
31	Distinctive effects of nano-sized permethrin in the environment. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2593-2602.	5.3	104
32	Murshidabad—One of the Nine Groundwater Arsenic-Affected Districts of West Bengal, India. Part II: Dermatological, Neurological, and Obstetric Findings. <i>Clinical Toxicology</i> , 2005, 43, 835-848.	1.9	101
33	Cytotoxicity of ZnO NPs towards fresh water algae <i>Scenedesmus obliquus</i> at low exposure concentrations in UV-C, visible and dark conditions. <i>Aquatic Toxicology</i> , 2015, 162, 29-38.	4.0	101
34	Cytotoxicity of aluminum oxide nanoparticles on <i>Allium cepa</i> root tip—effects of oxidative stress generation and biouptake. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11057-11066.	5.3	97
35	Nanoprimering with zero valent iron (nZVI) enhances germination and growth in aromatic rice cultivar (<i>Oryza sativa</i> cv. Gobindabhog L.). <i>Plant Physiology and Biochemistry</i> , 2018, 127, 403-413.	5.8	95
36	Ineffectiveness and Poor Reliability of Arsenic Removal Plants in West Bengal, India. <i>Environmental Science & Technology</i> , 2005, 39, 4300-4306.	10.0	94

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37	Comparative cytotoxicity and genotoxicity of cobalt (II, III) oxide, iron (III) oxide, silicon dioxide, and aluminum oxide nanoparticles on human lymphocytes in vitro. <i>Human and Experimental Toxicology</i> , 2016, 35, 170-183.	2.2	93
38	Bio-reduction of Cr(VI) by exopolysaccharides (EPS) from indigenous bacterial species of Sukinda chromite mine, India. <i>Biodegradation</i> , 2012, 23, 487-496.	3.0	92
39	Influence of differently functionalized polystyrene microplastics on the toxic effects of P25 TiO ₂ NPs towards marine algae <i>Chlorella</i> sp.. <i>Aquatic Toxicology</i> , 2019, 207, 208-216.	4.0	92
40	Nanocomposites for Delivering Agrochemicals: A Comprehensive Review. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3691-3702.	5.2	91
41	Pathogenicity of <i>Pseudomonas aeruginosa</i> in <i>Oreochromis mossambicus</i> and treatment using lime oil nanoemulsion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 372-377.	5.0	84
42	Selective colorimetric sensing of cysteine in aqueous solutions using silver nanoparticles in the presence of Cr ³⁺ . <i>Talanta</i> , 2011, 85, 533-540.	5.5	82
43	Batch and continuous flow studies of adsorptive removal of Cr(VI) by adapted bacterial consortia immobilized in alginate beads. <i>Bioresource Technology</i> , 2013, 128, 423-430.	9.6	81
44	Studies on interaction of colloidal silver nanoparticles (SNPs) with five different bacterial species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 129-138.	5.0	80
45	Simple colorimetric sensor for Cr(III) and Cr(VI) speciation using silver nanoparticles as a probe. <i>Analytical Methods</i> , 2014, 6, 5161.	2.7	78
46	Green synthesis of NiFe nano particles using <i>Punica granatum</i> peel extract for tetracycline removal. <i>Journal of Cleaner Production</i> , 2019, 210, 767-776.	9.3	77
47	Eco-corona formation lessens the toxic effects of polystyrene nanoplastics towards marine microalgae <i>Chlorella</i> sp.. <i>Environmental Research</i> , 2020, 188, 109842.	7.5	76
48	Impact of exopolysaccharides on the stability of silver nanoparticles in water. <i>Water Research</i> , 2011, 45, 5184-5190.	11.3	75
49	Electrical properties and thermal degradation of poly(vinyl chloride)/polyvinylidene fluoride/ZnO polymer nanocomposites. <i>Polymer International</i> , 2016, 65, 1098-1106.	3.1	75
50	Antibacterial microemulsion prevents sepsis and triggers healing of wound in wistar rats. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 105, 152-157.	5.0	74
51	Bio-based nanoemulsion formulation, characterization and antibacterial activity against food-borne pathogens. <i>Journal of Basic Microbiology</i> , 2013, 53, 677-685.	3.3	74
52	Nanoemulsion of orange oil with non ionic surfactant produced emulsion using ultrasonication technique: evaluating against food spoilage yeast. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 113-120.	3.1	73
53	Cytotoxicity of TiO ₂ nanoparticles and their detoxification in a freshwater system. <i>Aquatic Toxicology</i> , 2013, 138-139, 1-11.	4.0	71
54	Cytotoxicity of Al ₂ O ₃ Nanoparticles at Low Exposure Levels to a Freshwater Bacterial Isolate. <i>Chemical Research in Toxicology</i> , 2011, 24, 1899-1904.	3.3	68

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55	Toxicity evaluation of gold nanoparticles using an <i>Allium cepa</i> bioassay. RSC Advances, 2016, 6, 24000-24009.	3.6	68
56	Surface capping and size-dependent toxicity of gold nanoparticles on different trophic levels. Environmental Science and Pollution Research, 2016, 23, 4844-4858.	5.3	67
57	Interaction of silver nanoparticles (SNPs) with bacterial extracellular proteins (ECPs) and its adsorption isotherms and kinetics. Journal of Hazardous Materials, 2011, 192, 299-306.	12.4	65
58	Toxicity and accumulation of Copper oxide (CuO) nanoparticles in different life stages of <i>Artemia salina</i> . Environmental Toxicology and Pharmacology, 2017, 52, 227-238.	4.0	65
59	Comparative kinetics, equilibrium, thermodynamic and mechanistic studies on biosorption of hexavalent chromium by live and heat killed biomass of <i>Acinetobacter junii</i> VITSUKMW2, an indigenous chromite mine isolate. Chemical Engineering Journal, 2012, 187, 104-113.	12.7	64
60	Tetracycline removal using green synthesized bimetallic nZVI-Cu and bentonite supported green nZVI-Cu nanocomposite: A comparative study. Journal of Environmental Management, 2020, 254, 109812.	7.8	63
61	<i>Ceriodaphnia dubia</i> as a Potential Bio-Indicator for Assessing Acute Aluminum Oxide Nanoparticle Toxicity in Fresh Water Environment. PLoS ONE, 2013, 8, e74003.	2.5	61
62	Antioxidant and antibacterial activity of <i>Chaetomorpha antennina</i> against shrimp pathogen <i>Vibrio parahaemolyticus</i> . Aquaculture, 2014, 433, 467-475.	3.5	60
63	Advances in oral cancer detection. Advances in Clinical Chemistry, 2019, 91, 181-200.	3.7	59
64	In vivo and in vitro antimicrobial activity of <i>Azadirachta indica</i> (Lin) against <i>Citrobacter freundii</i> isolated from naturally infected <i>Tilapia</i> (<i>Oreochromis mossambicus</i>). Aquaculture, 2015, 437, 252-255.	3.5	56
65	Toxicity and trophic transfer of P25 TiO ₂ NPs from <i>Dunaliella salina</i> to <i>Artemia salina</i> : Effect of dietary and waterborne exposure. Environmental Research, 2018, 160, 39-46.	7.5	56
66	Seaweeds as an alternative therapeutic source for aquatic disease management. Aquaculture, 2016, 464, 529-536.	3.5	55
67	Silver nanoparticles: a potential nanocatalyst for the rapid degradation of starch hydrolysis by α -amylase. Carbohydrate Research, 2012, 352, 60-64.	2.3	54
68	Acute Toxicity of TiO ₂ Nanoparticles to <i>Ceriodaphnia dubia</i> under Visible Light and Dark Conditions in a Freshwater System. PLoS ONE, 2013, 8, e62970.	2.5	51
69	A comparative study with biologically and chemically synthesized nZVI: applications in Cr (VI) removal and ecotoxicity assessment using indigenous microorganisms from chromium-contaminated site. Environmental Science and Pollution Research, 2016, 23, 2613-2627.	5.3	50
70	In planta genotoxicity of nZVI: influence of colloidal stability on uptake, DNA damage, oxidative stress and cell death. Mutagenesis, 2017, 32, 371-387.	2.6	50
71	Enhanced Cr(VI) Removal by Nanozerovalent Iron-Immobilized Alginate Beads in the Presence of a Biofilm in a Continuous-Flow Reactor. Industrial & Engineering Chemistry Research, 2016, 55, 5973-5982.	3.7	49
72	Essential oil micro- and nanoemulsions: promising roles in antimicrobial therapy targeting human pathogens. Letters in Applied Microbiology, 2016, 63, 322-334.	2.2	48

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73	Murshidabadâ€™One of the Nine Groundwater Arsenic-Affected Districts of West Bengal, India. Part I: Magnitude of Contamination and Population at Risk. <i>Clinical Toxicology</i> , 2005, 43, 823-834.	1.9	47
74	Adsorptive removal of silver nanoparticles (SNPs) from aqueous solution by <i>Aeromonas punctata</i> and its adsorption isotherm and kinetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 92, 156-160.	5.0	47
75	Cr (III) bioremoval capacities of indigenous and adapted bacterial strains from Palar river basin. <i>Journal of Hazardous Materials</i> , 2011, 187, 553-561.	12.4	46
76	A review on the impact of seaweed polysaccharide on the growth of probiotic bacteria and its application in aquaculture. <i>Aquaculture International</i> , 2019, 27, 227-238.	2.2	46
77	Toxic behavior of silver and zinc oxide nanoparticles on environmental microorganisms. <i>Journal of Basic Microbiology</i> , 2014, 54, 916-927.	3.3	45
78	Hexavalent Chromium Bioremoval through Adaptation and Consortia Development from Sukinda Chromite Mine Isolates. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3740-3749.	3.7	44
79	Differential effects of P25 TiO ₂ nanoparticles on freshwater green microalgae: <i>Chlorella</i> and <i>Scenedesmus</i> species. <i>Aquatic Toxicology</i> , 2016, 176, 161-171.	4.0	44
80	DNA damage and mitochondria-mediated apoptosis of A549 lung carcinoma cells induced by biosynthesised silver and platinum nanoparticles. <i>RSC Advances</i> , 2016, 6, 27775-27787.	3.6	44
81	Biosynthesis of silver nanoparticles using actinobacterium <i>S</i> and <i>Streptomyces albobriseolus</i> and its antibacterial activity. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 503-507.	3.1	43
82	Simple colorimetric detection of Cr(III) in aqueous solutions by as synthesized citrate capped gold nanoparticles and development of a paper based assay. <i>Analytical Methods</i> , 2013, 5, 6211.	2.7	43
83	Toxic effect of Cr(VI) in presence of n-TiO ₂ and n-Al ₂ O ₃ particles towards freshwater microalgae. <i>Aquatic Toxicology</i> , 2014, 146, 28-37.	4.0	43
84	Efficiency of brown seaweed (<i>Sargassum longifolium</i>) polysaccharides encapsulated in nanoemulsion and nanostructured lipid carrier against colon cancer cell lines HCT 116. <i>RSC Advances</i> , 2018, 8, 15973-15984.	3.6	43
85	Polystyrene nanoplastics dysregulate lipid metabolism in murine macrophages in vitro. <i>Toxicology</i> , 2021, 458, 152850.	4.2	43
86	Nano-scale zero valent iron modulates Fe/Cd transporters and immobilizes soil Cd for production of Cd free rice. <i>Chemosphere</i> , 2020, 260, 127533.	8.2	42
87	Fabrication of collagen scaffolds impregnated with sago starch capped silver nanoparticles suitable for biomedical applications and their physicochemical studies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20175-20183.	2.8	41
88	Nanoformulation of poly(ethylene glycol) polymerized organic insect repellent by PIT emulsification method and its application for Japanese encephalitis vector control. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 370-378.	5.0	41
89	Nano-Scale Zero Valent Iron (nZVI) Priming Enhances Yield, Alters Mineral Distribution and Grain Nutrient Content of <i>Oryza sativa</i> L. cv. Gobindobhog: A Field Study. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 710-733.	5.1	41
90	Synthesis, characterization and evaluation of collagen scaffolds crosslinked with aminosilane functionalized silver nanoparticles: in vitro and in vivo studies. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3032-3043.	5.8	39

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91	Plain polystyrene microplastics reduce the toxic effects of ZnO particles on marine microalgae <i>Dunaliella salina</i> . <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104250.	6.7	39
92	Studies on Effect of TiO ₂ Nanoparticles on Growth and Membrane Permeability of <i>Escherichia coli</i> , <i>Pseudomonas aeruginosa</i> , and <i>Bacillus subtilis</i> . <i>Current Nanoscience</i> , 2010, 6, 381-387.	1.2	38
93	Spectroscopic studies on the interaction of bovine serum albumin with Al ₂ O ₃ nanoparticles. <i>Journal of Luminescence</i> , 2014, 145, 859-865.	3.1	38
94	Cytotoxicity of TiO ₂ nanoparticles towards freshwater sediment microorganisms at low exposure concentrations. <i>Environmental Research</i> , 2014, 135, 333-345.	7.5	38
95	Haemocompatibility assessment of synthesised platinum nanoparticles and its implication in biology. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 991-997.	3.4	38
96	Simple fluorescence-based detection of Cr(III) and Cr(VI) using unmodified gold nanoparticles. <i>Analytical Methods</i> , 2014, 6, 9554-9560.	2.7	36
97	Exploring the interaction between iron oxide nanoparticles (IONPs) and Human serum albumin (HSA): Spectroscopic and docking studies. <i>Journal of Molecular Liquids</i> , 2017, 241, 793-800.	4.9	36
98	Antifouling and anti-algal effects of chitosan nanocomposite (TiO ₂ /Ag) and pristine (TiO ₂ and Ag) films on marine microalgae <i>Dunaliella salina</i> . <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6870-6880.	6.7	36
99	Eco-corona formation on the nanomaterials in the aquatic systems lessens their toxic impact: A comprehensive review. <i>Environmental Research</i> , 2021, 194, 110669.	7.5	36
100	Arsenic in Groundwater of India. , 2011, , 150-164.		35
101	Studies on Cr(VI) Removal from Aqueous Solutions by Nanoalumina. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15242-15250.	3.7	35
102	Differential solvent extraction of two seaweeds and their efficacy in controlling <i>Aeromonas salmonicida</i> infection in <i>Oreochromis mossambicus</i> : A novel therapeutic approach. <i>Aquaculture</i> , 2015, 443, 56-64.	3.5	35
103	Comparative study on toxicity of ZnO and TiO ₂ nanoparticles on <i>Artemia salina</i> : effect of pre-UV-A and visible light irradiation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 5633-5646.	5.3	35
104	Environmental benignity of a pesticide in soft colloidal hydrodispersive nanometric form with improved toxic precision towards the target organisms than non-target organisms. <i>Science of the Total Environment</i> , 2017, 579, 190-201.	8.0	35
105	UV [†] pre-irradiation to P25 titanium dioxide nanoparticles enhanced its toxicity towards freshwater algae <i>Scenedesmus obliquus</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 16729-16742.	5.3	35
106	Prospects on the nano-plastic particles internalization and induction of cellular response in human keratinocytes. <i>Particle and Fibre Toxicology</i> , 2021, 18, 35.	6.2	35
107	Bacterial tolerance to silver nanoparticles (SNPs): <i>Aeromonas punctata</i> isolated from sewage environment. <i>Journal of Basic Microbiology</i> , 2011, 51, 183-190.	3.3	34
108	Studies on pathogenicity of <i>Aeromonas salmonicida</i> in catfish <i>Clarias batrachus</i> and control measures by neem nanoemulsion. <i>Aquaculture</i> , 2013, 396-399, 71-75.	3.5	34

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109	Different modes of TiO ₂ uptake by <i>Ceriodaphnia dubia</i> : Relevance to toxicity and bioaccumulation. <i>Aquatic Toxicology</i> , 2014, 152, 139-146.	4.0	34
110	Colorimetric detection of melamine based on the size effect of AuNPs. <i>Analytical Methods</i> , 2015, 7, 1453-1462.	2.7	34
111	Antimicrobial potency of high-energy emulsified black pepper oil nanoemulsion against aquaculture pathogen. <i>Aquaculture</i> , 2018, 491, 210-220.	3.5	34
112	Interactive effects of micro/nanoplastics and nanomaterials/pharmaceuticals: Their ecotoxicological consequences in the aquatic systems. <i>Aquatic Toxicology</i> , 2021, 232, 105747.	4.0	34
113	Silver nanoparticles tolerant bacteria from sewage environment. <i>Journal of Environmental Sciences</i> , 2011, 23, 346-352.	6.1	33
114	Vibrational spectroscopic investigation on interaction of sago starch capped silver nanoparticles with collagen: a comparative physicochemical study using FT-IR and FT-Raman techniques. <i>RSC Advances</i> , 2015, 5, 15763-15771.	3.6	33
115	Eucalyptus oil nanoemulsion-impregnated chitosan film: antibacterial effects against a clinical pathogen, <i>Staphylococcus aureus</i> , in vitro. <i>International Journal of Nanomedicine</i> , 2015, 10 Suppl 1, 67.	6.7	32
116	Developing acetylcholinesterase-based inhibition assay by modulated synthesis of silver nanoparticles: applications for sensing of organophosphorus pesticides. <i>RSC Advances</i> , 2015, 5, 61998-62006.	3.6	32
117	Distinctive impact of polystyrene nano-spherules as an emergent pollutant toward the environment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1537-1547.	5.3	32
118	Green synthesized Fe/Pd and in-situ Bentonite-Fe/Pd composite for efficient tetracycline removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104126.	6.7	32
119	Studies on Differential Behavior of Silver Nanoparticles Towards Thiol Containing Amino Acids. <i>Current Nanoscience</i> , 2012, 8, 141-149.	1.2	31
120	Trophic transfer potential of aluminium oxide nanoparticles using representative primary producer (<i>Chlorella ellipsoides</i>) and a primary consumer (<i>Ceriodaphnia dubia</i>). <i>Aquatic Toxicology</i> , 2014, 152, 74-81.	4.0	31
121	Cytogenetic studies of chromium (III) oxide nanoparticles on <i>Allium cepa</i> root tip cells. <i>Journal of Environmental Sciences</i> , 2015, 38, 150-157.	6.1	31
122	Nano-Bio sequential removal of hexavalent chromium using polymer-nZVI composite film and sulfate reducing bacteria under anaerobic condition. <i>Environmental Technology and Innovation</i> , 2018, 9, 122-133.	6.1	31
123	A facile gold nanoparticle-based ELISA system for detection of osteopontin in saliva: Towards oral cancer diagnostics. <i>Clinica Chimica Acta</i> , 2018, 477, 166-172.	1.1	31
124	Effect of microencapsulated probiotic <i>Bacillus vireti</i> O1-polysaccharide extract of <i>Gracilaria folifera</i> with alginate-chitosan on immunity, antioxidant activity and disease resistance of <i>Macrobrachium rosenbergii</i> against <i>Aeromonas hydrophila</i> infection. <i>Fish and Shellfish Immunology</i> , 2018, 73, 112-120.	3.6	31
125	Nanoemulsions: The rising star of antiviral therapeutics and nanodelivery system—current status and prospects. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 54, 101458.	7.4	31
126	Bioremoval of trivalent chromium using <i>Bacillus</i> biofilms through continuous flow reactor. <i>Journal of Hazardous Materials</i> , 2011, 196, 44-51.	12.4	30

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127	Antibacterial and antifouling activities of chitosan/TiO ₂ /Ag NPs nanocomposite films against packaged drinking water bacterial isolates. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19529-19540.	5.3	30
128	Toxicity evaluation of nano-TiO ₂ in the presence of functionalized microplastics at two trophic levels: Algae and crustaceans. <i>Science of the Total Environment</i> , 2021, 784, 147262.	8.0	30
129	Ageing with algal EPS reduces the toxic effects of polystyrene nanoplastics in freshwater microalgae <i>Scenedesmus obliquus</i> . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105978.	6.7	30
130	Probing the interaction of neem oil based nanoemulsion with bovine and human serum albumins using multiple spectroscopic techniques. <i>Journal of Molecular Liquids</i> , 2015, 212, 283-290.	4.9	29
131	Scale-up synthesis of zero-valent iron nanoparticles and their applications for synergistic degradation of pollutants with sodium borohydride. <i>Journal of Molecular Liquids</i> , 2016, 224, 589-598.	4.9	29
132	Individual and binary toxicity of anatase and rutile nanoparticles towards <i>Ceriodaphnia dubia</i> . <i>Aquatic Toxicology</i> , 2016, 178, 209-221.	4.0	29
133	Toxicity, accumulation, and trophic transfer of chemically and biologically synthesized nano zero valent iron in a two species freshwater food chain. <i>Aquatic Toxicology</i> , 2017, 183, 63-75.	4.0	29
134	Diminishing bioavailability and toxicity of P25 TiO ₂ NPs during continuous exposure to marine algae <i>Chlorella sp.</i> . <i>Chemosphere</i> , 2019, 233, 363-372.	8.2	29
135	Enhanced activity of lysozyme-AgNP conjugate with synergic antibacterial effect without damaging the catalytic site of lysozyme. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2014, 42, 336-343.	2.8	28
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