

Amitava Mukherjee

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.

325
papers

10,001
citations

51
h-index

86
g-index

345
ext. papers

11,632
ext. citations

5
avg, IF

6.71
L-index

#	Paper	IF	Citations
325	Genotoxicity of silver nanoparticles in <i>Allium cepa</i> . <i>Science of the Total Environment</i> , 2009 , 407, 5243-6	10.2	446
324	Biomimetic synthesis of silver nanoparticles by Citrus limon (lemon) aqueous extract and theoretical prediction of particle size. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 82, 152-9	6	419
323	Ultrasonic emulsification of food-grade nanoemulsion formulation and evaluation of its bactericidal activity. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 338-44	8.9	270
322	Cytogenetic and genotoxic effects of zinc oxide nanoparticles on root cells of <i>Allium cepa</i> . <i>Journal of Hazardous Materials</i> , 2011 , 190, 613-21	12.8	267
321	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	2.3	253
320	Antimicrobial sensitivity of <i>Escherichia coli</i> to alumina nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009 , 5, 282-6	6	208
319	Studies on interaction of colloidal Ag nanoparticles with Bovine Serum Albumin (BSA). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 32-7	6	198
318	Neem oil (<i>Azadirachta indica</i>) nanoemulsion--a potent larvicidal agent against <i>Culex quinquefasciatus</i> . <i>Pest Management Science</i> , 2012 , 68, 158-63	4.6	184
317	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	2.3	178
316	Eugenol-loaded antimicrobial nanoemulsion preserves fruit juice against, microbial spoilage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 392-7	6	162
315	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, 310-22	10.2	156
314	Antibacterial applications of silver nanoparticles synthesized by aqueous extract of <i>Azadirachta indica</i> (Neem) leaves. <i>Journal of Biomedical Nanotechnology</i> , 2009 , 5, 93-8	4	128
313	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, 1044-9	8.9	123
312	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	3.7	122
311	Arsenic burden of cooked rice: Traditional and modern methods. <i>Food and Chemical Toxicology</i> , 2006 , 44, 1823-9	4.7	121
310	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, 1180-7	7	119
309	A comparative cytotoxicity study of TiO ₂ nanoparticles under light and dark conditions at low exposure concentrations. <i>Toxicology Research</i> , 2012 , 1, 116	2.6	117

308	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	3	115
307	Formulation of water-dispersible nanopermethrin for larvicidal applications. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 1932-6	7	115
306	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	8.5	101
305	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	5.1	100
304	Nanoemulsion of eucalyptus oil and its larvicidal activity against <i>Culex quinquefasciatus</i> . <i>Bulletin of Entomological Research</i> , 2014 , 104, 393-402	1.7	99
303	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, 154-69	5.1	93
302	Cinnamon oil nanoemulsion formulation by ultrasonic emulsification: investigation of its bactericidal activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 114-22	1.3	90
301	Distinctive effects of nano-sized permethrin in the environment. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2593-602	5.1	87
300	Cytotoxicity of aluminium oxide nanoparticles towards fresh water algal isolate at low exposure concentrations. <i>Aquatic Toxicology</i> , 2013 , 132-133, 34-45	5.1	86
299	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	5.1	86
298	Groundwater arsenic contamination in Bangladesh-21 Years of research. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015 , 31, 237-48	4.1	85
297	Biodegradable polymer based encapsulation of neem oil nanoemulsion for controlled release of Aza-A. <i>Carbohydrate Polymers</i> , 2012 , 90, 1750-6	10.3	85
296	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, 835-48	2.9	84
295	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	5.1	78
294	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, 11057-66	5.1	77
293	Ineffectiveness and poor reliability of arsenic removal plants in West Bengal, India. <i>Environmental Science & Technology</i> , 2005 , 39, 4300-6	10.3	77
292	Selective colorimetric sensing of cysteine in aqueous solutions using silver nanoparticles in the presence of Cr ^{VI} . <i>Talanta</i> , 2011 , 85, 533-40	6.2	74
291	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, 170-83	3.4	71

290	Assessment on interactive prospectives of nanoplastics with plasma proteins and the toxicological impacts of virgin, coronated and environmentally released-nanoplastics. <i>Scientific Reports</i> , 2019 , 9, 8860	4.9	70
289	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, 423-30	11	68
288	Studies on interaction of colloidal silver nanoparticles (SNPs) with five different bacterial species. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 129-38	6	68
287	Simple colorimetric sensor for Cr(III) and Cr(VI) speciation using silver nanoparticles as a probe. <i>Analytical Methods</i> , 2014 , 6, 5161	3.2	66
286	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, 372-7	6	65
285	Bio-reduction of Cr(VI) by exopolysaccharides (EPS) from indigenous bacterial species of Sukinda chromite mine, India. <i>Biodegradation</i> , 2012 , 23, 487-96	4.1	63
284	Impact of exopolysaccharides on the stability of silver nanoparticles in water. <i>Water Research</i> , 2011 , 45, 5184-90	12.5	63
283	Bio-based nanoemulsion formulation, characterization and antibacterial activity against food-borne pathogens. <i>Journal of Basic Microbiology</i> , 2013 , 53, 677-85	2.7	61
282	Cytotoxicity of Al ₂ O ₃ nanoparticles at low exposure levels to a freshwater bacterial isolate. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1899-904	4	61
281	Cytotoxicity of TiO ₂ nanoparticles and their detoxification in a freshwater system. <i>Aquatic Toxicology</i> , 2013 , 138-139, 1-11	5.1	60
280	Antibacterial microemulsion prevents sepsis and triggers healing of wound in wistar rats. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 105, 152-7	6	58
279	Interaction of silver nanoparticles (SNPs) with bacterial extracellular proteins (ECPs) and its adsorption isotherms and kinetics. <i>Journal of Hazardous Materials</i> , 2011 , 192, 299-306	12.8	57
278	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	3.3	54
277	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. <i>Chemical Engineering Journal</i> , 2012 , 187, 104-113	14.7	52
276	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	10.3	52
275	Surface capping and size-dependent toxicity of gold nanoparticles on different trophic levels. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 4844-58	5.1	51
274	<i>Ceriodaphnia dubia</i> as a potential bio-indicator for assessing acute aluminum oxide nanoparticle toxicity in fresh water environment. <i>PLoS ONE</i> , 2013 , 8, e74003	3.7	50
273	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	5.4	48

272	Toxicity evaluation of gold nanoparticles using an <i>Allium cepa</i> bioassay. <i>RSC Advances</i> , 2016 , 6, 24000-24009	3.9	48
271	Influence of differently functionalized polystyrene microplastics on the toxic effects of P25 TiO NPs towards marine algae <i>Chlorella</i> sp. <i>Aquatic Toxicology</i> , 2019 , 207, 208-216	5.1	47
270	A comparative study with biologically and chemically synthesized nZVI: applications in Cr (VI) removal and ecotoxicity assessment using indigenous microorganisms from chromium-contaminated site. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2613-27	5.1	44
269	Enhanced Cr(VI) Removal by Nanozerovalent Iron-Immobilized Alginate Beads in the Presence of a Biofilm in a Continuous-Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5973-5982	3.9	44
268	Seaweeds as an alternative therapeutic source for aquatic disease management. <i>Aquaculture</i> , 2016 , 464, 529-536	4.4	44
267	Antioxidant and antibacterial activity of <i>Chaetomorpha antennina</i> against shrimp pathogen <i>Vibrio parahaemolyticus</i> . <i>Aquaculture</i> , 2014 , 433, 467-475	4.4	43
266	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, 156-60	6	43
265	Acute toxicity of TiO ₂ nanoparticles to <i>Ceriodaphnia dubia</i> under visible light and dark conditions in a freshwater system. <i>PLoS ONE</i> , 2013 , 8, e62970	3.7	43
264	Nanocomposites for Delivering Agrochemicals: A Comprehensive Review. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 3691-3702	5.7	41
263	Toxicity and accumulation of Copper oxide (CuO) nanoparticles in different life stages of <i>Artemia salina</i> . <i>Environmental Toxicology and Pharmacology</i> , 2017 , 52, 227-238	5.8	40
262	Hexavalent Chromium Bioremoval through Adaptation and Consortia Development from Sukinda Chromite Mine Isolates. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3740-3749	3.9	40
261	Silver nanoparticles: a potential nanocatalyst for the rapid degradation of starch hydrolysis by <i>α</i> -amylase. <i>Carbohydrate Research</i> , 2012 , 352, 60-4	2.9	40
260	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>). <i>Aquaculture</i> , 2015 , 437, 252-255	4.4	38
259	Toxic behavior of silver and zinc oxide nanoparticles on environmental microorganisms. <i>Journal of Basic Microbiology</i> , 2014 , 54, 916-27	2.7	38
258	Cr (III) bioremoval capacities of indigenous and adapted bacterial strains from Palar river basin. <i>Journal of Hazardous Materials</i> , 2011 , 187, 553-61	12.8	38
257	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	3.2	37
256	Toxicity and trophic transfer of P25 TiO NPs from <i>Dunaliella salina</i> to <i>Artemia salina</i> : Effect of dietary and waterborne exposure. <i>Environmental Research</i> , 2018 , 160, 39-46	7.9	37
255	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	5.1	36

254	A review on tetracycline removal from aqueous systems by advanced treatment techniques.. <i>RSC Advances</i> , 2020 , 10, 27081-27095	3.7	36
253	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, 161-71	5.1	36
252	Cytotoxicity of TiO ₂ nanoparticles towards freshwater sediment microorganisms at low exposure concentrations. <i>Environmental Research</i> , 2014 , 135, 333-45	7.9	35
251	Electrical properties and thermal degradation of poly(vinyl chloride)/polyvinylidene fluoride/ZnO polymer nanocomposites. <i>Polymer International</i> , 2016 , 65, 1098-1106	3.3	35
250	Essential oil micro- and nanoemulsions: promising roles in antimicrobial therapy targeting human pathogens. <i>Letters in Applied Microbiology</i> , 2016 , 63, 322-334	2.9	34
249	In planta genotoxicity of nZVI: influence of colloidal stability on uptake, DNA damage, oxidative stress and cell death. <i>Mutagenesis</i> , 2017 , 32, 371-387	2.8	33
248	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	3.7	33
247	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, 20175-83	3.6	33
246	Biosynthesis of silver nanoparticles using actinobacterium <i>Streptomyces albogriseolus</i> and its antibacterial activity. <i>Biotechnology and Applied Biochemistry</i> , 2012 , 59, 503-7	2.8	33
245	Different modes of TiO ₂ uptake by <i>Ceriodaphnia dubia</i> : relevance to toxicity and bioaccumulation. <i>Aquatic Toxicology</i> , 2014 , 152, 139-46	5.1	32
244	Murshidabad--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, 823-34	2.9	32
243	Advances in oral cancer detection. <i>Advances in Clinical Chemistry</i> , 2019 , 91, 181-200	5.8	31
242	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	6	31
241	Eco-corona formation lessens the toxic effects of polystyrene nanoplastics towards marine microalgae <i>Chlorella</i> sp. <i>Environmental Research</i> , 2020 , 188, 109842	7.9	31
240	Efficiency of brown seaweed () polysaccharides encapsulated in nanoemulsion and nanostructured lipid carrier against colon cancer cell lines HCT 116.. <i>RSC Advances</i> , 2018 , 8, 15973-15984	3.7	31
239	Spectroscopic studies on the interaction of bovine serum albumin with Al ₂ O ₃ nanoparticles. <i>Journal of Luminescence</i> , 2014 , 145, 859-865	3.8	31
238	Studies on Cr(VI) Removal from Aqueous Solutions by Nanoalumina. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15242-15250	3.9	31
237	Simple fluorescence-based detection of Cr(III) and Cr(VI) using unmodified gold nanoparticles. <i>Analytical Methods</i> , 2014 , 6, 9554-9560	3.2	30

236	Haemocompatibility assessment of synthesised platinum nanoparticles and its implication in biology. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 991-7	3.7	30
235	Silver nanoparticles tolerant bacteria from sewage environment. <i>Journal of Environmental Sciences</i> , 2011 , 23, 346-52	6.4	30
234	Studies on Effect of TiO ₂ Nanoparticles on Growth and Membrane Permeability of Escherichia coli, Pseudomonas aeruginosa, and Bacillus subtilis. <i>Current Nanoscience</i> , 2010 , 6, 381-387	1.4	30
233	Studies on Differential Behavior of Silver Nanoparticles Towards Thiol Containing Amino Acids. <i>Current Nanoscience</i> , 2012 , 8, 141-149	1.4	30
232	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	6	29
231	Colorimetric detection of melamine based on the size effect of AuNPs. <i>Analytical Methods</i> , 2015 , 7, 1453-1462	3.462	29
230	Tetracycline removal using green synthesized bimetallic nZVI-Cu and bentonite supported green nZVI-Cu nanocomposite: A comparative study. <i>Journal of Environmental Management</i> , 2020 , 254, 109812	7.9	29
229	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	7.3	28
228	Studies on pathogenicity of Aeromonas salmonicida in catfish Clarias batrachus and control measures by neem nanoemulsion. <i>Aquaculture</i> , 2013 , 396-399, 71-75	4.4	28
227	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	3.7	28
226	Trophic transfer potential of aluminium oxide nanoparticles using representative primary producer (Chlorella ellipsoides) and a primary consumer (Ceriodaphnia dubia). <i>Aquatic Toxicology</i> , 2014 , 152, 74-81	5.1	27
225	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	10.2	27
224	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	3.7	26
223	Antimicrobial potency of high-energy emulsified black pepper oil nanoemulsion against aquaculture pathogen. <i>Aquaculture</i> , 2018 , 491, 210-220	4.4	26
222	Bioremoval of trivalent chromium using Bacillus biofilms through continuous flow reactor. <i>Journal of Hazardous Materials</i> , 2011 , 196, 44-51	12.8	26
221	Bacterial tolerance to silver nanoparticles (SNPs): aeromonas punctata isolated from sewage environment. <i>Journal of Basic Microbiology</i> , 2011 , 51, 183-90	2.7	26
220	Antifouling and anti-algal effects of chitosan nanocomposite (TiO ₂ /Ag) and pristine (TiO ₂ and Ag) films on marine microalgae Dunaliella salina. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6870-6880	6.8	26
219	Arsenic in Groundwater of India 2011 , 150-164		25

218	Individual and binary toxicity of anatase and rutile nanoparticles towards <i>Ceriodaphnia dubia</i> . <i>Aquatic Toxicology</i> , 2016 , 178, 209-21	5.1	25
217	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	2.6	25
216	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	4.4	24
215	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, 19529-40	5.1	24
214	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	6	23
213	Impact of tetracycline on the toxic effects of titanium dioxide (TiO) nanoparticles towards the freshwater algal species, <i>Scenedesmus obliquus</i> . <i>Aquatic Toxicology</i> , 2017 , 193, 168-177	5.1	22
212	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	7	22
211	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	5.1	22
210	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	5.1	21
209	Cytogenetic studies of chromium (III) oxide nanoparticles on <i>Allium cepa</i> root tip cells. <i>Journal of Environmental Sciences</i> , 2015 , 38, 150-7	6.4	21
208	Binding studies of hydroxylated Multi-Walled Carbon Nanotubes to hemoglobin, gamma globulin and transferrin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 153, 222-32	6.7	21
207	State-of-the-art strategies for the colorimetric detection of heavy metals using gold nanorods based on aspect ratio reduction. <i>Analytical Methods</i> , 2016 , 8, 2131-2137	3.2	21
206	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, 336-43	6.1	21
205	Acute toxicity and accumulation of ZnO NPs in <i>Ceriodaphnia dubia</i> : Relative contributions of dissolved ions and particles. <i>Aquatic Toxicology</i> , 2016 , 177, 494-502	5.1	21
204	Distinctive impact of polystyrene nano-spherules as an emergent pollutant toward the environment. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 1537-1547	5.1	21
203	Comparative study on toxicity of ZnO and TiO 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	5.1	20
202	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, 67-73	7.3	20
201	Bovine serum albumin mediated decrease in silver nanoparticle phytotoxicity: root elongation and seed germination assay. <i>Toxicological and Environmental Chemistry</i> , 2012 , 94, 91-98	1.4	20

200	A comprehensive investigation of the differential interaction of human serum albumin with gold nanoparticles based on the variation in morphology and surface functionalization. <i>RSC Advances</i> , 2016 , 6, 52683-52694	3.7	20
199	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	6	20
198	Cytogenetic evaluation of gold nanorods using <i>Allium cepa</i> test. <i>Plant Physiology and Biochemistry</i> , 2016 , 109, 209-219	5.4	20
197	Polymeric nanoencapsulation of insect repellent: Evaluation of its bioefficacy on <i>Culex quinquefasciatus</i> mosquito population and effective impregnation onto cotton fabrics for insect repellent clothing. <i>Journal of King Saud University - Science</i> , 2017 , 29, 517-527	3.6	19
196	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	6.2	19
195	Differential interaction of silver nanoparticles with cysteine. <i>Journal of Experimental Nanoscience</i> , 2013 , 8, 589-595	1.9	19
194	Nano-TiO ₂ enhances biofilm formation in a bacterial isolate from activated sludge of a waste water treatment plant. <i>International Biodeterioration and Biodegradation</i> , 2017 , 116, 17-25	4.8	19
193	Study on antimicrobial potential of neem oil nanoemulsion against <i>Pseudomonas aeruginosa</i> infection in <i>Labeo rohita</i> . <i>Biotechnology and Applied Biochemistry</i> , 2014 , 61, 611-9	2.8	19
192	Effect of microencapsulated probiotic <i>Bacillus vireti</i> 01-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	4.3	19
191	Acetylcholinesterase inhibition-based ultrasensitive fluorometric detection of malathion using unmodified silver nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 485, 111-117	5.1	18
190	Sunlight Irradiation Induced Green Synthesis of Stable Silver Nanoparticles Using Citrus limon Extract. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2014 , 84, 65-70	1.4	18
189	Interaction of colloidal silver nanoparticles (SNPs) with exopolysaccharides (EPS) and its adsorption isotherms and kinetics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 381, 99-105 ^{5.1}	5.1	18
188	Stability of nano-sized permethrin in its colloidal state and its effect on the physiological and biochemical profile of <i>Culex tritaeniorhynchus</i> larvae. <i>Bulletin of Entomological Research</i> , 2017 , 107, 676-688 ^{1.7}	1.7	17
187	Solvothermal synthesis of magnetic copper ferrite nano sheet and its antimicrobial studies. <i>Materials Chemistry and Physics</i> , 2018 , 209, 172-179	4.4	17
186	Trophic transfer potential of two different crystalline phases of TiO ₂ NPs from <i>Chlorella</i> sp. to <i>Ceriodaphnia dubia</i> . <i>Aquatic Toxicology</i> , 2018 , 197, 89-97	5.1	17
185	Multiple spectroscopic studies on the interaction of BSA with pristine CNTs and their toxicity against <i>Donax faba</i> . <i>Journal of Luminescence</i> , 2016 , 170, 141-149	3.8	17
184	Preparation and characterization of layer-by-layer coated nano metal oxides-polymer composite film using Taguchi design method for Cr(VI) removal. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 1937-1946	6.8	17
183	Studies on interfacial interactions of TiO ₂ nanoparticles with bacterial cells under light and dark conditions. <i>Bulletin of Materials Science</i> , 2014 , 37, 371-381	1.7	17

182	Collagen based magnetic nanobiocomposite as MRI contrast agent and for targeted delivery in cancer therapy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4628-33	4	17
181	Studies on fluorescence determination of nanomolar Cr(III) in aqueous solutions using unmodified silver nanoparticles. <i>Analytical Methods</i> , 2012 , 4, 3407	3.2	17
180	Poly(ethylene) glycol-capped silver and magnetic nanoparticles: synthesis, characterization, and comparison of bactericidal and cytotoxic effects. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 1224-36	1.7	17
179	Comment on "limited temporal variability of arsenic concentrations in 20 wells monitored for 3 years in Arahazar, Bangladesh". <i>Environmental Science & Technology</i> , 2006 , 40, 1714-5; author reply 1718-20	10.3	17
178	Differential toxicity of Al ₂ O ₃ particles on Gram-positive and Gram-negative sediment bacterial isolates from freshwater. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 12095-106	5.1	17
177	Comparative cytotoxic and genotoxic effects of permethrin and its nanometric form on human erythrocytes and lymphocytes in vitro. <i>Chemico-Biological Interactions</i> , 2016 , 257, 119-24	5	17
176	Diminishing bioavailability and toxicity of P25 TiO NPs during continuous exposure to marine algae <i>Chlorella</i> sp. <i>Chemosphere</i> , 2019 , 233, 363-372	8.4	16
175	A temporal study on fate of Al ₂ O ₃ nanoparticles in a fresh water microcosm at environmentally relevant low concentrations. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 84, 70-7	7	16
174	RECENT DEVELOPMENTS IN PROCESSING OCEAN MANGANESE NODULES A CRITICAL REVIEW. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2004 , 25, 91-127	3.1	16
173	Dual mechanism-based sensing of mercury using unmodified, heteroepitaxially synthesized silver nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 299-307	3.3	15
172	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	8.4	15
171	Stability assessment of hydro dispersive nanometric permethrin and its biosafety study towards the beneficial bacterial isolate from paddy rhizome. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 24970-24982	5.1	15
170	Comprehensive study on biocorona formation on functionalized selenium nanoparticle and its biological implications. <i>Journal of Molecular Liquids</i> , 2018 , 268, 335-342	6	15
169	Enhanced antifungal activity of Ketoconazole using rose oil based novel microemulsion formulation. <i>Journal of Drug Delivery Science and Technology</i> , 2018 , 47, 434-444	4.5	15
168	A comparative multi-assay approach to study the toxicity behaviour of Eu ₂ O ₃ nanoparticles. <i>Journal of Molecular Liquids</i> , 2018 , 269, 783-795	6	15
167	Impact of gold nanorod functionalization on biocorona formation and their biological implication. <i>Journal of Molecular Liquids</i> , 2017 , 248, 703-712	6	15
166	The Environmentally Benign form of Pesticide in Hydrodispersive Nanometric form with Improved Efficacy Against Adult Mosquitoes at Low Exposure Concentrations. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015 , 95, 734-9	2.7	15
165	Biobased silver nanocolloid coating on silk fibers for prevention of post-surgical wound infections. <i>International Journal of Nanomedicine</i> , 2015 , 10 Suppl 1, 159-70	7.3	15

164	Investigation of seaweed extracts as a source of treatment against bacterial fish pathogen. <i>Aquaculture</i> , 2015 , 448, 82-86	4.4	15
163	Etching-based transformation of dumbbell-shaped gold nanorods facilitated by hexavalent chromium and their possible application as a plasmonic sensor. <i>Analytical Methods</i> , 2015 , 7, 5583-5592	3.2	15
162	In vivo nanotoxicity assays in plant models. <i>Methods in Molecular Biology</i> , 2012 , 926, 399-410	1.4	15
161	The differential stress response of adapted chromite mine isolates <i>Bacillus subtilis</i> and <i>Escherichia coli</i> and its impact on bioremediation potential. <i>Biodegradation</i> , 2013 , 24, 829-42	4.1	15
160	Enhanced tetracycline removal by in-situ NiFe nanoparticles coated sand in column reactor. <i>Journal of Environmental Management</i> , 2019 , 236, 93-99	7.9	14
159	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	6.8	14
158	Cross-regulatory network in <i>Pseudomonas aeruginosa</i> biofilm genes and TiO anatase induced molecular perturbations in key proteins unraveled by a systems biology approach. <i>Gene</i> , 2018 , 647, 289-296	3.8	14
157	Dietary transfer of zinc oxide particles from algae (<i>Scenedesmus obliquus</i>) to daphnia (<i>Ceriodaphnia dubia</i>). <i>Environmental Research</i> , 2018 , 164, 395-404	7.9	14
156	Significance of surface functionalization of Gold Nanorods for reduced effect on IgG stability and minimization of cytotoxicity. <i>Materials Science and Engineering C</i> , 2017 , 71, 744-754	8.3	14
155	Nano-Scale Zero Valent Iron (nZVI) Priming Enhances Yield, Alters Mineral Distribution and Grain Nutrient Content of <i>L. cv. Gobindobhog</i> : A Field Study. <i>Journal of Plant Growth Regulation</i> , 2021 , 1-24	4.7	14
154	Removal of hexavalent chromium using nano zero valent iron and bacterial consortium immobilized alginate beads in a continuous flow reactor. <i>Environmental Technology and Innovation</i> , 2018 , 12, 104-114	7	14
153	Toxicity assessment of zero valent iron nanoparticles on <i>Artemia salina</i> . <i>Environmental Toxicology</i> , 2017 , 32, 1617-1627	4.2	13
152	Antifouling activities of pristine and nanocomposite chitosan/TiO ₂ /Ag films against freshwater algae. <i>RSC Advances</i> , 2017 , 7, 27645-27655	3.7	13
151	Biogenic nano zero valent iron (Bio-nZVI) anaerobic granules for textile dye removal. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1683-1689	6.8	13
150	Biological nanopesticides: a greener approach towards the mosquito vector control. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 10151-10163	5.1	13
149	Qualitative toxicity assessment of silver nanoparticles on the fresh water bacterial isolates and consortium at low level of exposure concentration. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 108, 152-60	7	13
148	Improved efficacy of fluconazole against candidiasis using bio-based microemulsion technique. <i>Biotechnology and Applied Biochemistry</i> , 2013 , 60, 417-29	2.8	13
147	Batch and column study on tetracycline removal using green synthesized NiFe nanoparticles immobilized alginate beads. <i>Environmental Technology and Innovation</i> , 2020 , 17, 100520	7	13

146	Acetylcholinesterase (AChE)-mediated immobilization of silver nanoparticles for the detection of organophosphorus pesticides. <i>RSC Advances</i> , 2016 , 6, 64769-64777	3.7	13
145	Spectroscopic studies on the interactions of bovine serum albumin in presence of silver nanorods. <i>Journal of Molecular Liquids</i> , 2017 , 232, 251-257	6	12
144	Bimetallic gold nanorods with enhanced biocorona formation for doxorubicin loading and sustained release. <i>Biomaterials Science</i> , 2018 , 7, 63-75	7.4	12
143	Differential sensitivity of marine algae <i>Dunaliella salina</i> and <i>Chlorella</i> sp. to P25 TiO NPs. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 21394-21403	5.1	12
142	Utilizing corona on functionalized selenium nanoparticles for loading and release of doxorubicin payload. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111864	6	12
141	Optimization of Process Parameters to Formulate Nanoemulsion by Spontaneous Emulsification: Evaluation of Larvicidal Activity Against <i>Culex quinquefasciatus</i> Larva. <i>BioNanoScience</i> , 2014 , 4, 157-165	3.4	12
140	Autocatalytic growth of biofunctionalized antibacterial silver nanoparticles. <i>Biotechnology and Applied Biochemistry</i> , 2014 , 61, 322-32	2.8	12
139	The effect of TiO ₂ nanoparticles on sulfate-reducing bacteria and their consortium under anaerobic conditions. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3741-3748	6.8	12
138	Bio-processing of Indian Ocean nodules using a marine isolate-effect of organics. <i>Minerals Engineering</i> , 2003 , 16, 651-657	4.9	12
137	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	7.6	12
136	Essential oil nanoemulsions: antibacterial activity in contaminated fruit juices. <i>International Journal of Food Science and Technology</i> , 2019 , 54, 2802-2810	3.8	11
135	Enhanced mosquitocidal efficacy of colloidal dispersion of pyrethroid nanometric emulsion with benignity towards non-target species. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 176, 258-269	7	11
134	Acetylcholinesterase inhibition-based colorimetric determination of Hg ²⁺ using unmodified silver nanoparticles. <i>New Journal of Chemistry</i> , 2015 , 39, 1172-1178	3.6	11
133	Effects and formulation of silver nanoscaffolds on cytotoxicity dependent ion release kinetics towards enhanced excision wound healing patterns in Wistar albino rats.. <i>RSC Advances</i> , 2019 , 9, 35677-35694	3.7	11
132	An ultra-sensitive and selective AChE based colorimetric detection of malathion using silver nanoparticle-graphene oxide (Ag-GO) nanocomposite. <i>Analytica Chimica Acta</i> , 2021 , 1142, 73-83	6.6	11
131	Antibiotic tetracycline enhanced the toxic potential of photo catalytically active P25 titanium dioxide nanoparticles towards freshwater algae <i>Scenedesmus obliquus</i> . <i>Chemosphere</i> , 2021 , 267, 128923	8.4	11
130	Modulatory effects of Zn ions on the toxicity of citrate- and PVP-capped gold nanoparticles towards freshwater algae, <i>Scenedesmus obliquus</i> . <i>Environmental Science and Pollution Research</i> , 2017 , 24, 3790-3801	5.1	10
129	Anti-aggregation-based spectrometric detection of Hg(II) at physiological pH using gold nanorods. <i>Materials Science and Engineering C</i> , 2016 , 67, 711-716	8.3	10

128	Differences in antibacterial activity of PMMA/TiO ₂ /Ag nanocomposite on individual dominant bacterial isolates from packaged drinking water, and their consortium under UVC and dark conditions. <i>Applied Surface Science</i> , 2016 , 362, 93-101	6.7	10
127	Studies on the effect of AgNP binding on α-amylase structure of porcine pancreas and <i>Bacillus subtilis</i> by multi-spectroscopic methods. <i>Journal of Luminescence</i> , 2014 , 146, 263-268	3.8	10
126	A comparative ecotoxicity analysis of β and γ-phase aluminium oxide nanoparticles towards a freshwater bacterial isolate <i>Bacillus licheniformis</i> . <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 2415-23	3.7	10
125	Antibacterial activity of neem nanoemulsion and its toxicity assessment on human lymphocytes in vitro. <i>International Journal of Nanomedicine</i> , 2015 , 10 Suppl 1, 77-86	7.3	10
124	Multiple spectroscopic studies of the structural conformational changes of human serum albumin essential oil based nanoemulsions conjugates. <i>Journal of Luminescence</i> , 2015 , 161, 187-197	3.8	10
123	Protective efficacy of microencapsulated seaweed extracts for preventing <i>Aeromonas</i> infections in <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019 , 218, 36-45	3.2	10
122	Mitigating the toxic effects of CdSe quantum dots towards freshwater alga <i>Scenedesmus obliquus</i> : Role of eco-corona. <i>Environmental Pollution</i> , 2021 , 270, 116049	9.3	10
121	DNA-triangular silver nanoparticles nanoprobe for the detection of dengue virus distinguishing serotype. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 202, 346-351	4.4	10
120	Toxic effects of engineered nanoparticles (metal/metal oxides) on plants using <i>Allium cepa</i> as a model system. <i>Comprehensive Analytical Chemistry</i> , 2019 , 125-143	1.9	9
119	Cytotoxicity of titania nanoparticles towards waste water isolate <i>Exiguobacterium acetylicum</i> under UVA, visible light and dark conditions. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1837-1846	6.8	9
118	Cinnamon and clove oil nanoemulsions: novel therapeutic options against vancomycin intermediate susceptible <i>Staphylococcus aureus</i> . <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 1405-1415	3.3	9
117	Solubilization of cobalt from ocean nodules at neutral pH-a novel bioprocess. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003 , 30, 606-12	4.2	9
116	Eco-corona formation on the nanomaterials in the aquatic systems lessens their toxic impact: A comprehensive review. <i>Environmental Research</i> , 2021 , 194, 110669	7.9	9
115	Sustainable Diesel Feedstock: a Comparison of Oleaginous Bacterial and Microalgal Model Systems. <i>Bioenergy Research</i> , 2019 , 12, 205-216	3.1	9
114	Environmentally benign nanometric neem-laced urea emulsion for controlling mosquito population in environment. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 2211-2230	5.1	9
113	Human serum albumin corona on functionalized gold nanorods modulates doxorubicin loading and release. <i>New Journal of Chemistry</i> , 2018 , 42, 16555-16563	3.6	9
112	Toxicity evaluation of nano-TiO in the presence of functionalized microplastics at two trophic levels: Algae and crustaceans. <i>Science of the Total Environment</i> , 2021 , 784, 147262	10.2	9
111	Enhancement of nitrogen assimilation and photosynthetic efficiency by novel iron pulsing technique in <i>Oryza sativa</i> L. var Pankaj. <i>Plant Physiology and Biochemistry</i> , 2019 , 144, 207-221	5.4	8

110	Toxic effect of different types of titanium dioxide nanoparticles on <i>Ceriodaphnia dubia</i> in a freshwater system. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 11998-12013	5.1	8
109	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	6.8	8
108	Spectrofluorimetric determination of Hg ²⁺ and Pb ²⁺ using acetylcholinesterase (AChE)-based formation of silver nanoparticles. <i>RSC Advances</i> , 2016 , 6, 21261-21270	3.7	8
107	Tetracycline affects the toxicity of P25 n-TiO ₂ towards marine microalgae <i>Chlorella</i> sp. <i>Environmental Research</i> , 2019 , 179, 108808	7.9	8
106	Individual and Co Transport Study of Titanium Dioxide NPs and Zinc Oxide NPs in Porous Media. <i>PLoS ONE</i> , 2015 , 10, e0134796	3.7	8
105	Decreased Phototoxic Effects of TiO ₂ Nanoparticles in Consortium of Bacterial Isolates from Domestic Waste Water. <i>PLoS ONE</i> , 2015 , 10, e0141301	3.7	8
104	Biophysical Investigation of α -Amylase Conjugated Silver Nanoparticles Proves Structural Changes Besides Increasing Its Enzyme Activity. <i>Journal of Bionanoscience</i> , 2013 , 7, 271-275		8
103	Drug loaded essential oil microemulsions enhance photostability and evaluation of in vitro efficacy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020 , 29, 101638	3.5	8
102	Understanding the relevance of protein corona in nanoparticle-based therapeutics and diagnostics.. <i>RSC Advances</i> , 2020 , 10, 27161-27172	3.7	8
101	Interactive effects of micro/nanoplastics and nanomaterials/pharmaceuticals: Their ecotoxicological consequences in the aquatic systems. <i>Aquatic Toxicology</i> , 2021 , 232, 105747	5.1	8
100	Determination of mercury(II) ions in aqueous solution using silver nanorods as a probe. <i>Analytical Methods</i> , 2016 , 8, 3756-3762	3.2	8
99	Using gold nanorod-based colorimetric sensor for determining chromium in biological samples. <i>Journal of Molecular Liquids</i> , 2018 , 264, 119-126	6	8
98	Effect of Dietary Supplementation of Novel Probiotic Bacteria <i>Bacillus vireti</i> 01 on Antioxidant Defence System of Freshwater Prawn Challenged with <i>Pseudomonas aeruginosa</i> . <i>Probiotics and Antimicrobial Proteins</i> , 2018 , 10, 356-366	5.5	7
97	Gene-centric metegenome analysis reveals diversity of <i>Pseudomonas aeruginosa</i> biofilm gene orthologs in fresh water ecosystem. <i>Genomics</i> , 2018 , 110, 89-97	4.3	7
96	Comprehensive spectroscopic studies on the interaction of biomolecules with surfactant detached multi-walled carbon nanotubes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 128, 315-321	6	7
95	Bioprocessing of polymetallic Indian Ocean nodules using a marine isolate. <i>Hydrometallurgy</i> , 2004 , 73, 205-213	4	7
94	Dissolution of Cu, Co and Ni from ocean nodules by l-ascorbic acid. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005 , 44, 754-759	3.7	7
93	Novel enzymatic synthesis of core/shell AgNP/AuNC bimetallic nanostructure and its catalytic applications. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112463	6	7

92	Acetylcholinesterase-based inhibition screening through in situ synthesis of gold nanoparticles: Application for detection of nerve agent simulant. <i>Journal of Molecular Liquids</i> , 2018 , 249, 623-628	6	7
91	Groundwater Arsenic in India: Source, Distribution, Effects and Alternate Safe Drinking Water Sources? 2015 ,		6
90	Combined effects of nano-TiO and hexavalent chromium towards marine crustacean <i>Artemia salina</i> . <i>Aquatic Toxicology</i> , 2020 , 225, 105541	5.1	6
89	Carbon adhered iron oxide hollow nanotube on membrane fouling. <i>Materials Chemistry and Physics</i> , 2018 , 211, 468-478	4.4	6
88	Existence of hydroxylated MWCNTs demotes the catalysis effect of amylases against starch degradation. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 250-61	7.9	6
87	Horseradish peroxidase-mediated in situ synthesis of silver nanoparticles: application for sensing of mercury. <i>New Journal of Chemistry</i> , 2018 , 42, 13763-13769	3.6	6
86	Novel nano-bio (Nano Zerovalent Iron and <i>Klebsiella</i> sp.) composite beads for congo red removal using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103413	6.8	6
85	Photo-Assisted Removal of Tetracycline Using Bio-Nanocomposite-Immobilized Alginate Beads. <i>ACS Omega</i> , 2019 , 4, 17504-17510	3.9	6
84	Cerium oxide nanoparticles promote HSA fibrillation in vitro. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 1138-1145	7.9	5
83	Fluorometric sensing of endotoxin based on aggregation of CTAB capped gold nanospheres. <i>Journal of Luminescence</i> , 2016 , 178, 106-114	3.8	5
82	Toxicity, uptake, and accumulation of nano and bulk cerium oxide particles in <i>Artemia salina</i> . <i>Environmental Science and Pollution Research</i> , 2017 , 24, 24187-24200	5.1	5
81	A novel enzyme-mediated gold nanoparticle synthesis and its application for in situ detection of horseradish peroxidase inhibitor phenylhydrazine. <i>New Journal of Chemistry</i> , 2017 , 41, 15079-15086	3.6	5
80	Comment on "Reliability of a commercial kit to test groundwater for arsenic in Bangladesh". <i>Environmental Science & Technology</i> , 2005 , 39, 5501-2; author reply 5503-4	10.3	5
79	Cadmium selenide (CdSe) quantum dots cause genotoxicity and oxidative stress in <i>Allium cepa</i> plants. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2021 , 865, 503338	3	5
78	Polystyrene nanoplastics dysregulate lipid metabolism in murine macrophages in vitro. <i>Toxicology</i> , 2021 , 458, 152850	4.4	5
77	Individual, co-transport and deposition of TiO ₂ and ZnO nanoparticles over quartz sand coated with consortium biofilm. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3954-3960	6.8	5
76	Assessing combined toxic effects of tetracycline and P25 titanium dioxide nanoparticles using <i>Allium cepa</i> bioassay. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	5
75	Role of triclosan microemulsion against triclosan resistant clones of bacterial pathogens. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 61, 102158	4.5	5

74	Eugenol micro-emulsion reinforced with silver nanocomposite electrospun mats for wound dressing strategies. <i>Materials Advances</i> , 2021 , 2, 2971-2988	3.3	5
73	Gold nanorod-based fluorometric ELISA for the sensitive detection of a cancer biomarker. <i>New Journal of Chemistry</i> , 2018 , 42, 15852-15859	3.6	5
72	Development of biogenic bimetallic Pd/Fe nanoparticle-impregnated aerobic microbial granules with potential for dye removal. <i>Journal of Environmental Management</i> , 2021 , 293, 112789	7.9	5
71	Fluorescence Based Study for Melamine Detection Using Gold Colloidal Solutions. <i>Journal of Fluorescence</i> , 2016 , 26, 2225-2235	2.4	4
70	Anaerobic nano zero-valent iron granules for hexavalent chromium removal from aqueous solution. <i>Environmental Technology and Innovation</i> , 2019 , 16, 100495	7	4
69	The stability and fate of synthesized zero-valent iron nanoparticles in freshwater microcosm system. <i>3 Biotech</i> , 2017 , 7, 227	2.8	4
68	Detection of food contaminants by gold and silver nanoparticles 2017 , 129-165		4
67	Process Development for Functionalization of Cotton with Silver Nanoparticles Synthesized by Bio-based Approaches. <i>Current Nanoscience</i> , 2013 , 9, 479-488	1.4	4
66	Differential growth and metabolic responses induced by nano-scale zero valent iron in germinating seeds and seedlings of <i>Oryza sativa</i> L. cv. Swarna. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 204, 111104	7	4
65	Essential Oil-Based Nanoemulsion Formation by Low- and High-Energy Methods and Their Application in Food Preservation against Food Spoilage Microorganisms 2016 , 93-100		4
64	Role of PAMAM-OH dendrimers against the fibrillation pathway of biomolecules. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1007-1018	7.9	4
63	Insights into the interaction of key biofilm proteins in <i>Pseudomonas aeruginosa</i> PAO1 with TiO nanoparticle: An in silico analysis. <i>Journal of Theoretical Biology</i> , 2019 , 462, 12-25	2.3	4
62	Silver nanorods induced oxidative stress and chromosomal aberrations in the model. <i>IET Nanobiotechnology</i> , 2020 , 14, 161-166	2	4
61	Prospects on the nano-plastic particles internalization and induction of cellular response in human keratinocytes. <i>Particle and Fibre Toxicology</i> , 2021 , 18, 35	8.4	4
60	Effect of surface charge on peroxidase mimetic activity of gold nanorods (GNRs). <i>Materials Chemistry and Physics</i> , 2019 , 227, 242-249	4.4	3
59	In Vivo Testing and Extended Drug Release of Chitosan-Coated Itraconazole Loaded Microemulsion Using Volatile Oil <i>Thymus vulgaris</i> . <i>Revista Brasileira De Farmacognosia</i> , 2020 , 30, 279-289	2	3
58	Comparative studies on interaction of inorganic mercury with silver nanorods and nanotriangles. <i>Journal of Molecular Liquids</i> , 2017 , 242, 987-992	6	3
57	Studies on photo-assisted removal of Cr(VI) by ZnO particles. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1091-1100	2.3	3

56	An ultrasensitive colorimetric sensor for efficient detection of Hg ²⁺ at physiological pH. <i>Analytical Methods</i> , 2015 , 7, 2268-2272	3.2	3
55	Label-Free Colorimetric Detection of Bacterial Lipopolysaccharide in Food Samples Using Gold Nanorods. <i>Sensor Letters</i> , 2016 , 14, 19-25	0.9	3
54	UVB pre-irradiation of titanium dioxide nanoparticles is more detrimental to freshwater algae than UVA pre-irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104076	6.8	3
53	Iron-pulsing, a novel seed invigoration technique to enhance crop yield in rice: A journey from lab to field aiming towards sustainable agriculture. <i>Science of the Total Environment</i> , 2021 , 769, 144671	10.2	3
52	Nanoprimering with zero-valent iron synthesized using pomegranate peel waste: A "green" approach for yield enhancement in <i>Oryza sativa</i> L. cv. Gonindobhog. <i>Plant Physiology and Biochemistry</i> , 2021 , 163, 261-275	5.4	3
51	Neem (<i>Azadirachta indica</i>) Oils 2016 , 593-599		3
50	Development of thickness-tunable gold nanorods for anti-oxidant detection. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122295	4.4	3
49	Investigating the potential use of an oleaginous bacterium, <i>Rhodococcus opacus</i> PD630, for nano-TiO remediation. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 27394-27406	5.1	3
48	Antioxidant and antibacterial activity of <i>Gelidium pusillum</i> (Stackhouse) against <i>Aeromonas caviae</i> and its applications in aquaculture. <i>Aquaculture International</i> , 2021 , 29, 845-858	2.6	3
47	PREPARATION AND CHARACTERIZATION OF EDIBLE OIL NANOEMULSIONS FOR ENHANCED STABILITY AND ORAL DELIVERY OF CURCUMIN. <i>International Journal of Applied Pharmaceutics</i> , 2018 , 10, 139	0.4	3
46	Elucidating ROS signaling networks and physiological changes involved in nanoscale zero valent iron primed rice seed germination <i>sensu stricto</i> . <i>Free Radical Biology and Medicine</i> , 2021 , 171, 11-25	7.8	3
45	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	6.8	3
44	Studies on Cr(VI) removal from aqueous solutions by nanotitania under visible light and dark conditions. <i>Bulletin of Materials Science</i> , 2015 , 38, 393-400	1.7	2
43	Mechanism of the oxidative stress-mediated increase in lipid accumulation by the bacterium, <i>R. opacus</i> PD630: Experimental analysis and genome-scale metabolic modeling. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1779-1788	4.9	2
42	Nanometric neem oil emulsification through microfluidization, and its therapeutic potential against <i>Aeromonas culicicola</i> infection in <i>Cyprinus carpio</i> . <i>Flavour and Fragrance Journal</i> , 2018 , 33, 340-350	2.5	2
41	Effects of titanium dioxide nanoparticles on horseradish peroxidase-mediated peroxidation reactions. <i>Journal of Molecular Liquids</i> , 2017 , 241, 852-860	6	2
40	Mechanisms for solubilization of cobalt, copper and nickel from Indian Ocean nodules at near neutral pH by a marine isolate. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004 , 31, 462-8	4.2	2
39	<i>Padina tetrastomatica</i> : A Potential Source for the Synthesis of Silver Nanoparticles and Its Antibacterial Efficiency. <i>Advanced Science, Engineering and Medicine</i> , 2013 , 5, 926-931	0.6	2

38	Active Compounds Encapsulated Nanoemulsion Systems and Their Application: A Review. <i>Journal of Bionanoscience</i> , 2016 , 10, 435-443		2
37	Exploring the interactions between protein coronated CdSe quantum dots and nanoplastics. <i>New Journal of Chemistry</i> , 2021 , 45, 7951-7958	3.6	2
36	Nanopesticides: A Boon Towards the Control of Dreadful Vectors of Lymphatic Filariasis 2018 , 247-257		2
35	DEVELOPMENT OF AZITHROMYCIN LOADED LEMONGRASS OIL BASED MICROEMULSION AND DETERMINATION OF ANTIBACTERIAL POTENTIAL. <i>International Journal of Applied Pharmaceutics</i> , 2018 , 10, 72	0.4	2
34	Nanoplastics enhance the toxic effects of titanium dioxide nanoparticle in freshwater algae <i>Scenedesmus obliquus</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022 , 256, 109305	3.2	2
33	A Temporal Study on the Effects of TiO ₂ Nanoparticles in a Fresh Water Microcosm. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2016 , 86, 415-420	1.4	1
32	Elucidating the role of surfactant dispersed CNTs towards HSA fibrillation in vitro [A multiple spectroscopic approach. <i>Journal of Molecular Liquids</i> , 2016 , 221, 714-720	6	1
31	Prion like behavior of HSA-hydroxylated MWCNT interface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 161, 411-21	6.7	1
30	Surface Characterization of Silver and Fe ₃ O ₄ Nanoparticles Incorporated into Collagen-based Scaffolds as Biomaterials for Tissue Regeneration: State-of-the-Art and Future Perspectives 2016 , 161-180		1
29	Bio-Based Nanoemulsions: An Eco-Safe Approach Towards the Eco-Toxicity Problem 2018 , 1-23		1
28	Nanoscale zerovalent iron particles induce differential cytotoxicity, genotoxicity, oxidative stress and hemolytic responses in human lymphocytes and erythrocytes in vitro. <i>Journal of Applied Toxicology</i> , 2019 , 39, 1623-1639	4.1	1
27	Design and formulation technique of a novel drug delivery system for azithromycin and its anti-bacterial activity against <i>Staphylococcus aureus</i> . <i>AAPS PharmSciTech</i> , 2013 , 14, 1045-54	3.9	1
26	Polystyrene nanoplastics diminish the toxic effects of Nano-TiO in marine algae <i>Chlorella</i> sp. <i>Environmental Research</i> , 2022 , 204, 112400	7.9	1
25	FeO-urea nanocomposites as a novel nitrogen fertilizer for improving nutrient utilization efficiency and reducing environmental pollution. <i>Environmental Pollution</i> , 2022 , 292, 118301	9.3	1
24	A Review on Ecotoxicity of Zinc Oxide Nanoparticles on Freshwater Algae 2018 , 191-206		1
23	Removal of methyl orange from aqueous solution using SRB supported Bio-Pd/Fe NPs. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021 , 16, 100561	3.3	1
22	Female mosquito-a potential vector for transporting plastic residues to humans.. <i>Chemosphere</i> , 2022 , 134666	8.4	1
21	Exposure to polystyrene nanoplastics impairs lipid metabolism in human and murine macrophages in vitro.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 238, 113612	7	1

20	Plastic particles in medicine: A systematic review of exposure and effects to human health. <i>Chemosphere</i> , 2022 , 135227	8.4	1
19	Recent Advances in Understanding the Facets of Eco-corona on Engineered Nanomaterials. <i>Journal of the Indian Institute of Science</i> ,1	2.4	0
18	Studies on the removal of acid violet 7 dye from aqueous solutions by green ZnO@FeO chitosan-alginate nanocomposite synthesized using <i>Camellia sinensis</i> extract. <i>Journal of Environmental Management</i> , 2021 , 303, 114128	7.9	0
17	Mixture toxicity of TiO NPs and tetracycline at two trophic levels in the marine ecosystem: <i>Chlorella</i> sp. and <i>Artemia salina</i> .. <i>Science of the Total Environment</i> , 2021 , 812, 152241	10.2	0
16	Ecotoxicity of Nanomaterials to Freshwater Microalgae and Fish 2022 , 143-160		0
15	Eco-corona reduces the phytotoxic effects of polystyrene nanoplastics in <i>Allium cepa</i> : Emphasizing the role of ROS. <i>Environmental and Experimental Botany</i> , 2022 , 198, 104850	5.9	0
14	A review on contemporary nanomaterial based therapeutics for the treatment of Diabetic foot ulcer (DFU) with special reference to Indian Scenario. <i>Nanoscale Advances</i> ,	5.1	0
13	The effects of pH, ionic strength, and natural organics on the transport properties of carbon nanotubes in saturated porous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 647, 129025	5.1	0
12	Nano-SiO ₂ transport and retention in saturated porous medium: Influence of pH, ionic strength, and natural organics. <i>Journal of Contaminant Hydrology</i> , 2022 , 104029	3.9	0
11	Polymer/layered silicate nanocomposites as matrix for bioinsecticide formulations 2019 , 161-178		
10	Reply to the Comment on Simple fluorescence-based detection of Cr(III) and Cr(VI) using unmodified gold nanoparticles by M. R. Hormozi-Nezhad, J. Mohammadi and A. Bigdeli, <i>Anal. Methods</i> , 2015, 7, DOI: 10.1039/c5ay00005j. <i>Analytical Methods</i> , 2015 , 7, 6035-6036	3.2	
9	Nanoemulsion. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2022 , 307-329	0.2	
8	Nanosized Emulsion System: A Comprehensive Tool Towards Controlling Vector Mosquito Populations 2021 , 359-368		
7	Synergistic removal of tetracycline and copper (II) by in-situ B-Fe/Ni nanocomposite: A novel and an environmentally sustainable green nanomaterial. <i>Environmental Technology and Innovation</i> , 2022 , 25, 102187	7	
6	Biosynthesis and Characterization of Silver Nanoparticles Synthesized From Seaweeds and Its Antibacterial Activity 2018 , 265-280		
5	Bio-based Nanoemulsions: An Eco-safe Approach Towards the Eco-toxicity Problem 2019 , 1985-2006		
4	Effect of negative functionalisation of gold nanorods on conformation and activity of human serum albumin. <i>IET Nanobiotechnology</i> , 2019 , 13, 522-529	2	
3	In-situ coating of Fe/Pd nanoparticles on sand and its application for removal of tetracycline from aqueous solution. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101400	6.7	

- 2 Pathogenicity of *Edwardsiella tarda* in *Oreochromis mossambicus* and treatment by *Tamarindus indica* seed extract. *Aquaculture International*, **2021**, 29, 1829-1841 2.6
- 1 The toxicological effects of titanium dioxide nanoparticles on marine microalgae **2021**, 479-493