Natarajan Chandrasekaran

List of Publications by Year in Descending Order

301 papers	9,375 citations	50 h-index	84 g-index
326 ext. papers	10,793 ext. citations	4.8 avg, IF	6.62 L-index

#	Paper	IF	Citations
301	Nanoemulsion. *Advances in Chemical and Materials Engineering Book Series*, **2022**, 307-329	0.2	
300	Polystyrene nanoplastics diminish the toxic effects of Nano-TiO in marine algae Chlorella sp. *Environmental Research*, **2022**, 204, 112400	7.9	1
299	Synergistic removal of tetracycline and copper (II) by in-situ B-Fe/Ni nanocomposite: A novel and an environmentally sustainable green nanomaterial. *Environmental Technology and Innovation*, **2022**, 25, 102187	7	
298	Ecotoxicity of Nanomaterials to Freshwater Microalgae and Fish **2022**, 143-160		0
297	Nanoplastics enhance the toxic effects of titanium dioxide nanoparticle in freshwater algae Scenedesmus obliquus.. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2022**, 256, 109305	3.2	2
296	Female mosquito-a potential vector for transporting plastic residues to humans.. *Chemosphere*, **2022**, 134666	8.4	1
295	Exposure to polystyrene nanoplastics impairs lipid metabolism in human and murine macrophages in vitro.. *Ecotoxicology and Environmental Safety*, **2022**, 238, 113612	7	1
294	The effects of pH, ionic strength, and natural organics on the transport properties of carbon nanotubes in saturated porous medium. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 647, 129025	5.1	0
293	Nano-SiO2 transport and retention in saturated porous medium: Influence of pH, ionic strength, and natural organics. *Journal of Contaminant Hydrology*, **2022**, 104029	3.9	0
292	Plastic particles in medicine: A systematic review of exposure and effects to human health. *Chemosphere*, **2022**, 135227	8.4	1
291	Studies on the removal of acid violet 7 dye from aqueous solutions by green ZnO@FeO chitosan-alginate nanocomposite synthesized using Camellia sinensis extract. *Journal of Environmental Management*, **2021**, 303, 114128	7.9	0
290	Nanosized Emulsion System: A Comprehensive Tool Towards Controlling Vector Mosquito Populations **2021**, 359-368		
289	Mixture toxicity of TiO NPs and tetracycline at two trophic levels in the marine ecosystem: Chlorella sp. and Artemia salina.. *Science of the Total Environment*, **2021**, 812, 152241	10.2	0
288	Interactive effects of micro/nanoplastics and nanomaterials/pharmaceuticals: Their ecotoxicological consequences in the aquatic systems. *Aquatic Toxicology*, **2021**, 232, 105747	5.1	8
287	Pathogenicity of Edwardsiella tarda in Oreochromis mossambicus and treatment by Tamarindus indica seed extract. *Aquaculture International*, **2021**, 29, 1829-1841	2.6	
286	Polystyrene nanoplastics dysregulate lipid metabolism in murine macrophages in vitro. *Toxicology*, **2021**, 458, 152850	4.4	5
285	An ultra-sensitive and selective AChE based colorimetric detection of malathion using silver nanoparticle-graphene oxide (Ag-GO) nanocomposite. *Analytica Chimica Acta*, **2021**, 1142, 73-83	6.6	11

284	Assessing combined toxic effects of tetracycline and P25 titanium dioxide nanoparticles using Allium cepa bioassay. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	5
283	Role of triclosan microemulsion against triclosan resistant clones of bacterial pathogens. *Journal of Drug Delivery Science and Technology*, **2021**, 61, 102158	4.5	5
282	A comprehensive update on antibiotics as an emerging water pollutant and their removal using nano-structured photocatalysts. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104796	6.8	9
281	Mitigating the toxic effects of CdSe quantum dots towards freshwater alga Scenedesmus obliquus: Role of eco-corona. *Environmental Pollution*, **2021**, 270, 116049	9.3	10
280	Antibiotic tetracycline enhanced the toxic potential of photo catalytically active P25 titanium dioxide nanoparticles towards freshwater algae Scenedesmus obliquus. *Chemosphere*, **2021**, 267, 128923	8.4	11
279	Exploring the interactions between protein coronated CdSe quantum dots and nanoplastics. *New Journal of Chemistry*, **2021**, 45, 7951-7958	3.6	2
278	Eugenol micro-emulsion reinforced with silver nanocomposite electrospun mats for wound dressing strategies. *Materials Advances*, **2021**, 2, 2971-2988	3.3	5
277	Antioxidant and antibacterial activity of Gelidium pusillum (Stackhouse) against Aeromonas caviae and its applications in aquaculture. *Aquaculture International*, **2021**, 29, 845-858	2.6	3
276	Potential combination therapy using twenty phytochemicals from twenty plants to prevent SARS-CoV-2 infection: An in silico Approach. *VirusDisease*, **2021**, 32, 1-9	3.4	1
275	Toxicity evaluation of nano-TiO in the presence of functionalized microplastics at two trophic levels: Algae and crustaceans. *Science of the Total Environment*, **2021**, 784, 147262	10.2	9
274	Nanoemulsions: The rising star of antiviral therapeutics and nanodelivery system-current status and prospects. *Current Opinion in Colloid and Interface Science*, **2021**, 54, 101458	7.6	12
273	Prospects on the nano-plastic particles internalization and induction of cellular response in human keratinocytes. *Particle and Fibre Toxicology*, **2021**, 18, 35	8.4	4
272	Development of biogenic bimetallic Pd/Fe nanoparticle-impregnated aerobic microbial granules with potential for dye removal. *Journal of Environmental Management*, **2021**, 293, 112789	7.9	5
271	Removal of methyl orange from aqueous solution using SRB supported Bio-Pd/Fe NPs. *Environmental Nanotechnology, Monitoring and Management*, **2021**, 16, 100561	3.3	1
270	The toxicological effects of titanium dioxide nanoparticles on marine microalgae **2021**, 479-493		
269	Green synthesized Fe/Pd and in-situ Bentonite-Fe/Pd composite for efficient tetracycline removal. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104126	6.8	8
268	Combined effects of nano-TiO and hexavalent chromium towards marine crustacean Artemia salina. *Aquatic Toxicology*, **2020**, 225, 105541	5.1	6
267	Plain polystyrene microplastics reduce the toxic effects of ZnO particles on marine microalgae Dunaliella salina. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104250	6.8	14

266	Eco-corona formation lessens the toxic effects of polystyrene nanoplastics towards marine microalgae Chlorella sp. *Environmental Research*, **2020**, 188, 109842	7.9	31
265	In Vivo Testing and Extended Drug Release of Chitosan-Coated Itraconazole Loaded Microemulsion Using Volatile Oil Thymus vulgaris. *Revista Brasileira De Farmacognosia*, **2020**, 30, 279-289	2	3
264	UVB pre-irradiation of titanium dioxide nanoparticles is more detrimental to freshwater algae than UVA pre-irradiation. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104076	6.8	3
263	Batch and column study on tetracycline removal using green synthesized NiFe nanoparticles immobilized alginate beads. *Environmental Technology and Innovation*, **2020**, 17, 100520	7	13
262	Drug loaded essential oil microemulsions enhance photostability and evaluation of in vitro efficacy. *Photodiagnosis and Photodynamic Therapy*, **2020**, 29, 101638	3.5	8
261	Novel enzymatic synthesis of core/shell AgNP/AuNC bimetallic nanostructure and its catalytic applications. *Journal of Molecular Liquids*, **2020**, 301, 112463	6	7
260	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	7.9	29
259	In situ formation of bimetallic FeNi nanoparticles on sand through green technology: Application for tetracycline removal. *Frontiers of Environmental Science and Engineering*, **2020**, 14, 1	5.8	5
258	A review on tetracycline removal from aqueous systems by advanced treatment techniques.. *RSC Advances*, **2020**, 10, 27081-27095	3.7	36
257	In-situ coating of Fe/Pd nanoparticles on sand and its application for removal of tetracycline from aqueous solution. *Journal of Water Process Engineering*, **2020**, 36, 101400	6.7	
256	Development of thickness-tunable gold nanorods for anti-oxidant detection. *Materials Chemistry and Physics*, **2020**, 239, 122295	4.4	3
255	Silver nanorods induced oxidative stress and chromosomal aberrations in the model. *IET Nanobiotechnology*, **2020**, 14, 161-166	2	4
254	Assessment on interactive prospectives of nanoplastics with plasma proteins and the toxicological impacts of virgin, coronated and environmentally released-nanoplastics. *Scientific Reports*, **2019**, 9, 8860	4.9	70
253	Diminishing bioavailability and toxicity of P25 TiO NPs during continuous exposure to marine algae Chlorella sp. *Chemosphere*, **2019**, 233, 363-372	8.4	16
252	Differential sensitivity of marine algae Dunaliella salina and Chlorella sp. to P25 TiO NPs. *Environmental Science and Pollution Research*, **2019**, 26, 21394-21403	5.1	12
251	Essential oil nanoemulsions: antibacterial activity in contaminated fruit juices. *International Journal of Food Science and Technology*, **2019**, 54, 2802-2810	3.8	11
250	Toxic effects of engineered nanoparticles (metal/metal oxides) on plants using Allium cepa as a model system. *Comprehensive Analytical Chemistry*, **2019**, 125-143	1.9	9
249	Advances in oral cancer detection. *Advances in Clinical Chemistry*, **2019**, 91, 181-200	5.8	31

248	Polymer/layered silicate nanocomposites as matrix for bioinsecticide formulations **2019**, 161-178		
247	Toxic effect of different types of titanium dioxide nanoparticles on Ceriodaphnia dubia in a freshwater system. *Environmental Science and Pollution Research*, **2019**, 26, 11998-12013	5.1	8
246	Enhanced mosquitocidal efficacy of colloidal dispersion of pyrethroid nanometric emulsion with benignity towards non-target species. *Ecotoxicology and Environmental Safety*, **2019**, 176, 258-269	7	11
245	Enhanced tetracycline removal by in-situ NiFe nanoparticles coated sand in column reactor. *Journal of Environmental Management*, **2019**, 236, 93-99	7.9	14
244	Effect of surface charge on peroxidase mimetic activity of gold nanorods (GNRs). *Materials Chemistry and Physics*, **2019**, 227, 242-249	4.4	3
243	Cinnamon and clove oil nanoemulsions: novel therapeutic options against vancomycin intermediate susceptible Staphylococcus aureus. *Applied Nanoscience (Switzerland)*, **2019**, 9, 1405-1415	3.3	9
242	Novel nano-bio (Nano Zerovalent Iron and Klebsiella sp.) composite beads for congo red removal using response surface methodology. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103413	6.8	6
241	Anaerobic nano zero-valent iron granules for hexavalent chromium removal from aqueous solution. *Environmental Technology and Innovation*, **2019**, 16, 100495	7	4
240	Photo-Assisted Removal of Tetracycline Using Bio-Nanocomposite-Immobilized Alginate Beads. *ACS Omega*, **2019**, 4, 17504-17510	3.9	6
239	Tetracycline affects the toxicity of P25 n-TiO towards marine microalgae Chlorella sp. *Environmental Research*, **2019**, 179, 108808	7.9	8
238	Utilizing corona on functionalized selenium nanoparticles for loading and release of doxorubicin payload. *Journal of Molecular Liquids*, **2019**, 296, 111864	6	12
237	Gracilaria foliifera (Forssk.) B□gesen ethanolic extract triggers apoptosis via activation of p53 expression in HepG2 cells. *Pharmacognosy Magazine*, **2019**, 15, 259	0.8	4
236	Bio-based Nanoemulsions: An Eco-safe Approach Towards the Eco-toxicity Problem **2019**, 1985-2006		
235	Effect of negative functionalisation of gold nanorods on conformation and activity of human serum albumin. *IET Nanobiotechnology*, **2019**, 13, 522-529	2	
234	Nucleic acid detection strategy using gold nanoprobe of two diverse origin. *IET Nanobiotechnology*, **2019**, 13, 928-932	2	
233	Effects and formulation of silver nanoscaffolds on cytotoxicity dependent ion release kinetics towards enhanced excision wound healing patterns in Wistar albino rats.. *RSC Advances*, **2019**, 9, 35677-35694	3.7	11
232	Influence of differently functionalized polystyrene microplastics on the toxic effects of P25 TiO NPs towards marine algae Chlorella sp. *Aquatic Toxicology*, **2019**, 207, 208-216	5.1	47
231	Protective efficacy of microencapsulated seaweed extracts for preventing Aeromonas infections in Oreochromis mossambicus. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2019**, 218, 36-45	3.2	10

230	A review on the impact of seaweed polysaccharide on the growth of probiotic bacteria and its application in aquaculture. *Aquaculture International*, **2019**, 27, 227-238	2.6	25
229	Green synthesis of NiFe nano particles using Punica granatum peel extract for tetracycline removal. *Journal of Cleaner Production*, **2019**, 210, 767-776	10.3	52
228	Distinctive impact of polystyrene nano-spherules as an emergent pollutant toward the environment. *Environmental Science and Pollution Research*, **2019**, 26, 1537-1547	5.1	21
227	Bimetallic gold nanorods with enhanced biocorona formation for doxorubicin loading and sustained release. *Biomaterials Science*, **2018**, 7, 63-75	7.4	12
226	Biogenic nano zero valent iron (Bio-nZVI) anaerobic granules for textile dye removal. *Journal of Environmental Chemical Engineering*, **2018**, 6, 1683-1689	6.8	13
225	Trophic transfer potential of two different crystalline phases of TiO NPs from Chlorella sp. to Ceriodaphnia dubia. *Aquatic Toxicology*, **2018**, 197, 89-97	5.1	17
224	Nano-Bio sequential removal of hexavalent chromium using polymer-nZVI composite film and sulfate reducing bacteria under anaerobic condition. *Environmental Technology and Innovation*, **2018**, 9, 122-133	7	22
223	UV□pre-irradiation to P25 titanium dioxide nanoparticles enhanced its toxicity towards freshwater algae Scenedesmus obliquus. *Environmental Science and Pollution Research*, **2018**, 25, 16729-16742	5.1	22
222	Antimicrobial potency of high-energy emulsified black pepper oil nanoemulsion against aquaculture pathogen. *Aquaculture*, **2018**, 491, 210-220	4.4	26
221	Dietary transfer of zinc oxide particles from algae (Scenedesmus obliquus) to daphnia (Ceriodaphnia dubia). *Environmental Research*, **2018**, 164, 395-404	7.9	14
220	Biological nanopesticides: a greener approach towards the mosquito vector control. *Environmental Science and Pollution Research*, **2018**, 25, 10151-10163	5.1	13
219	A facile gold nanoparticle-based ELISA system for detection of osteopontin in saliva: Towards oral cancer diagnostics. *Clinica Chimica Acta*, **2018**, 477, 166-172	6.2	19
218	Effect of Dietary Supplementation of Novel Probiotic Bacteria Bacillus vireti 01 on Antioxidant Defence System of Freshwater Prawn Challenged with Pseudomonas aeruginosa. *Probiotics and Antimicrobial Proteins*, **2018**, 10, 356-366	5.5	7
217	Bio-Based Nanoemulsions: An Eco-Safe Approach Towards the Eco-Toxicity Problem **2018**, 1-23		1
216	Comprehensive study on biocorona formation on functionalized selenium nanoparticle and its biological implications. *Journal of Molecular Liquids*, **2018**, 268, 335-342	6	15
215	Enhanced antifungal activity of Ketoconazole using rose oil based novel microemulsion formulation. *Journal of Drug Delivery Science and Technology*, **2018**, 47, 434-444	4.5	15
214	Horseradish peroxidase-mediated in situ synthesis of silver nanoparticles: application for sensing of mercury. *New Journal of Chemistry*, **2018**, 42, 13763-13769	3.6	6
213	Efficiency of brown seaweed () polysaccharides encapsulated in nanoemulsion and nanostructured lipid carrier against colon cancer cell lines HCT 116.. *RSC Advances*, **2018**, 8, 15973-15984	3.7	31

212	Nanometric neem oil emulsification through microfluidization, and its therapeutic potential against Aeromonas culicicola infection in Cyprinus carpio. *Flavour and Fragrance Journal*, **2018**, 33, 340-350	2.5	2
211	Comparative Study Between Two Different High-Energy Emulsification Strategies for the Preparation of Bio-Oil Based Nanoemulsion. *Advanced Science Letters*, **2018**, 24, 5953-5959	0.1	1
210	Biosynthesis and Characterization of Silver Nanoparticles Synthesized From Seaweeds and Its Antibacterial Activity **2018**, 265-280		
209	Study of Nanoparticles Impact on the Growth and Exopolysaccharides Production of Epiphytic Bacteria from Seaweeds. *Advanced Science Letters*, **2018**, 24, 5923-5930	0.1	
208	Toxicity and trophic transfer of P25 TiO NPs from Dunaliella salina to Artemia salina: Effect of dietary and waterborne exposure. *Environmental Research*, **2018**, 160, 39-46	7.9	37
207	Effect of microencapsulated probiotic Bacillus vireti 01-polysaccharide extract of Gracilaria folifera with alginate-chitosan on immunity, antioxidant activity and disease resistance of Macrobrachium rosenbergii against Aeromonas hydrophila infection. *Fish and Shellfish Immunology*, **2018**, 73, 112-120	4.3	19
206	Acetylcholinesterase-based inhibition screening through in situ synthesis of gold nanoparticles: Application for detection of nerve agent simulant. *Journal of Molecular Liquids*, **2018**, 249, 623-628	6	7
205	Environmentally benign nanometric neem-laced urea emulsion for controlling mosquito population in environment. *Environmental Science and Pollution Research*, **2018**, 25, 2211-2230	5.1	9
204	Safety of Natural Insecticides: Toxic Effects on Experimental Animals. *BioMed Research International*, **2018**, 2018, 4308054	3	44
203	Nanopesticides: A Boon Towards the Control of Dreadful Vectors of Lymphatic Filariasis **2018**, 247-257		2
202	DEVELOPMENT OF AZITHROMYCIN LOADED LEMONGRASS OIL BASED MICROEMULSION AND DETERMINATION OF ANTIBACTERIAL POTENTIAL. *International Journal of Applied Pharmaceutics*, **2018**, 10, 72	0.4	2
201	PREPARATION AND CHARACTERIZATION OF EDIBLE OIL NANOEMULSIONS FOR ENHANCED STABILITY AND ORAL DELIVERY OF CURCUMIN. *International Journal of Applied Pharmaceutics*, **2018**, 10, 139	0.4	3
200	A Review on Ecotoxicity of Zinc Oxide Nanoparticles on Freshwater Algae **2018**, 191-206		1
199	Antifouling and anti-algal effects of chitosan nanocomposite (TiO2/Ag) and pristine (TiO2 and Ag) films on marine microalgae Dunaliella salina. *Journal of Environmental Chemical Engineering*, **2018**, 6, 6870-6880	6.8	26
198	Gold nanorod-based fluorometric ELISA for the sensitive detection of a cancer biomarker. *New Journal of Chemistry*, **2018**, 42, 15852-15859	3.6	5
197	Removal of hexavalent chromium using nano zero valent iron and bacterial consortium immobilized alginate beads in a continuous flow reactor. *Environmental Technology and Innovation*, **2018**, 12, 104-114	7	14
196	Human serum albumin corona on functionalized gold nanorods modulates doxorubicin loading and release. *New Journal of Chemistry*, **2018**, 42, 16555-16563	3.6	9
195	DNA-triangular silver nanoparticles nanoprobe for the detection of dengue virus distinguishing serotype. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 202, 346-351	4.4	10

194	Using gold nanorod-based colorimetric sensor for determining chromium in biological samples. *Journal of Molecular Liquids*, **2018**, 264, 119-126	6	8
193	Interaction of Citrate-Capped Gold Nanoparticles with the Selected Amino Thiols for Sensing Applications. *Proceedings of the National Academy of Sciences India Section B - Biological Sciences*, **2017**, 87, 23-30	1.4	4
192	Spectroscopic studies on the interactions of bovine serum albumin in presence of silver nanorods. *Journal of Molecular Liquids*, **2017**, 232, 251-257	6	12
191	Polymeric nanoencapsulation of insect repellent: Evaluation of its bioefficacy on Culex quinquefasciatus mosquito population and effective impregnation onto cotton fabrics for insect repellent clothing. *Journal of King Saud University - Science*, **2017**, 29, 517-527	3.6	19
190	Toxicity assessment of zero valent iron nanoparticles on Artemia salina. *Environmental Toxicology*, **2017**, 32, 1617-1627	4.2	13
189	Modulatory effects of Zn ions on the toxicity of citrate- and PVP-capped gold nanoparticles towards freshwater algae, Scenedesmus obliquus. *Environmental Science and Pollution Research*, **2017**, 24, 3790-3801	5.1	10
188	Exploring the interaction between iron oxide nanoparticles (IONPs) and Human serum albumin (HSA): Spectroscopic and docking studies. *Journal of Molecular Liquids*, **2017**, 241, 793-800	6	29
187	Antifouling activities of pristine and nanocomposite chitosan/TiO2/Ag films against freshwater algae. *RSC Advances*, **2017**, 7, 27645-27655	3.7	13
186	Cerium oxide nanoparticles promote HSA fibrillation in vitro. *International Journal of Biological Macromolecules*, **2017**, 103, 1138-1145	7.9	5
185	Toxicity and accumulation of Copper oxide (CuO) nanoparticles in different life stages of Artemia salina. *Environmental Toxicology and Pharmacology*, **2017**, 52, 227-238	5.8	40
184	Stability of nano-sized permethrin in its colloidal state and its effect on the physiological and biochemical profile of Culex tritaeniorhynchus larvae. *Bulletin of Entomological Research*, **2017**, 107, 676-688	1.7	17
183	Comparative study on toxicity of ZnO and TiO nanoparticles on Artemia salina: effect of pre-UV-A and visible light irradiation. *Environmental Science and Pollution Research*, **2017**, 24, 5633-5646	5.1	20
182	Toxicity, accumulation, and trophic transfer of chemically and biologically synthesized nano zero valent iron in a two species freshwater food chain. *Aquatic Toxicology*, **2017**, 183, 63-75	5.1	21
181	Impact of tetracycline on the toxic effects of titanium dioxide (TiO) nanoparticles towards the freshwater algal species, Scenedesmus obliquus. *Aquatic Toxicology*, **2017**, 193, 168-177	5.1	22
180	Toxicity, uptake, and accumulation of nano and bulk cerium oxide particles in Artemia salina. *Environmental Science and Pollution Research*, **2017**, 24, 24187-24200	5.1	5
179	Comparative studies on interaction of inorganic mercury with silver nanorods and nanotriangles. *Journal of Molecular Liquids*, **2017**, 242, 987-992	6	3
178	The effect of TiO2 nanoparticles on sulfate-reducing bacteria and their consortium under anaerobic conditions. *Journal of Environmental Chemical Engineering*, **2017**, 5, 3741-3748	6.8	12
177	A novel enzyme-mediated gold nanoparticle synthesis and its application for in situ detection of horseradish peroxidase inhibitor phenylhydrazine. *New Journal of Chemistry*, **2017**, 41, 15079-15086	3.6	5

176	Impact of gold nanorod functionalization on biocorona formation and their biological implication. *Journal of Molecular Liquids*, **2017**, 248, 703-712	6	15
175	The stability and fate of synthesized zero-valent iron nanoparticles in freshwater microcosm system. *3 Biotech*, **2017**, 7, 227	2.8	4
174	Effects of titanium dioxide nanoparticles on horseradish peroxidase-mediated peroxidation reactions. *Journal of Molecular Liquids*, **2017**, 241, 852-860	6	2
173	Significance of surface functionalization of Gold Nanorods for reduced effect on IgG stability and minimization of cytotoxicity. *Materials Science and Engineering C*, **2017**, 71, 744-754	8.3	14
172	Nano-TiO 2 enhances biofilm formation in a bacterial isolate from activated sludge of a waste water treatment plant. *International Biodeterioration and Biodegradation*, **2017**, 116, 17-25	4.8	19
171	Environmental benignity of a pesticide in soft colloidal hydrodispersive nanometric form with improved toxic precision towards the target organisms than non-target organisms. *Science of the Total Environment*, **2017**, 579, 190-201	10.2	27
170	Detection of food contaminants by gold and silver nanoparticles **2017**, 129-165		4
169	A Temporal Study on the Effects of TiO2 Nanoparticles in a Fresh Water Microcosm. *Proceedings of the National Academy of Sciences India Section B - Biological Sciences*, **2016**, 86, 415-420	1.4	1
168	Comparative cytotoxicity and genotoxicity of cobalt (II, III) oxide, iron (III) oxide, silicon dioxide, and aluminum oxide nanoparticles on human lymphocytes in vitro. *Human and Experimental Toxicology*, **2016**, 35, 170-83	3.4	71
167	Essential oil micro- and nanoemulsions: promising roles in antimicrobial therapy targeting human pathogens. *Letters in Applied Microbiology*, **2016**, 63, 322-334	2.9	34
166	Elucidating the role of surfactant dispersed CNTs towards HSA fibrillation in vitro A multiple spectroscopic approach. *Journal of Molecular Liquids*, **2016**, 221, 714-720	6	1
165	Prion like behavior of HSA-hydroxylated MWCNT interface. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 161, 411-21	6.7	1
164	Antibacterial and antifouling activities of chitosan/TiO2/Ag NPs nanocomposite films against packaged drinking water bacterial isolates. *Environmental Science and Pollution Research*, **2016**, 23, 19529-40	5.1	24
163	Stability assessment of hydro dispersive nanometric permethrin and its biosafety study towards the beneficial bacterial isolate from paddy rhizome. *Environmental Science and Pollution Research*, **2016**, 23, 24970-24982	5.1	15
162	Surface Characterization of Silver and Fe 3O4 Nanoparticles Incorporated into Collagen-based Scaffolds as Biomaterials for Tissue Regeneration: State-of-the-Art and Future Perspectives **2016**, 161-180		1
161	Fluorescence Based Study for Melamine Detection Using Gold Colloidal Solutions. *Journal of Fluorescence*, **2016**, 26, 2225-2235	2.4	4
160	Anti-aggregation-based spectrometric detection of Hg(II) at physiological pH using gold nanorods. *Materials Science and Engineering C*, **2016**, 67, 711-716	8.3	10
159	Fluorometric sensing of endotoxin based on aggregation of CTAB capped gold nanospheres. *Journal of Luminescence*, **2016**, 178, 106-114	3.8	5

158	Nanoemulsion of orange oil with non ionic surfactant produced emulsion using ultrasonication technique: evaluating against food spoilage yeast. *Applied Nanoscience (Switzerland)*, **2016**, 6, 113-120	3.3	54
157	Surface capping and size-dependent toxicity of gold nanoparticles on different trophic levels. *Environmental Science and Pollution Research*, **2016**, 23, 4844-58	5.1	51
156	DNA damage and mitochondria-mediated apoptosis of A549 lung carcinoma cells induced by biosynthesised silver and platinum nanoparticles. *RSC Advances*, **2016**, 6, 27775-27787	3.7	33
155	Spectrofluorimetric determination of Hg2+ and Pb2+ using acetylcholinesterase (AChE)-based formation of silver nanoparticles. *RSC Advances*, **2016**, 6, 21261-21270	3.7	8
154	State-of-the-art strategies for the colorimetric detection of heavy metals using gold nanorods based on aspect ratio reduction. *Analytical Methods*, **2016**, 8, 2131-2137	3.2	21
153	Existence of hydroxylated MWCNTs demotes the catalysis effect of amylases against starch degradation. *International Journal of Biological Macromolecules*, **2016**, 86, 250-61	7.9	6
152	Toxicity evaluation of gold nanoparticles using an Allium cepa bioassay. *RSC Advances*, **2016**, 6, 24000-24009	3.7	48
151	Multiple spectroscopic studies on the interaction of BSA with pristine CNTs and their toxicity against Donax faba. *Journal of Luminescence*, **2016**, 170, 141-149	3.8	17
150	Differences in antibacterial activity of PMMA/TiO2/Ag nanocomposite on individual dominant bacterial isolates from packaged drinking water, and their consortium under UVC and dark conditions. *Applied Surface Science*, **2016**, 362, 93-101	6.7	10
149	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, 2613-27	5.1	44
148	Active Compounds Encapsulated Nanoemulsion Systems and Their Application: A Review. *Journal of Bionanoscience*, **2016**, 10, 435-443		2
147	Label-Free Colorimetric Detection of Bacterial Lipopolysaccharide in Food Samples Using Gold Nanorods. *Sensor Letters*, **2016**, 14, 19-25	0.9	3
146	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
145	Neem (Azadirachta indica) Oils **2016**, 593-599		3
144	Acute toxicity and accumulation of ZnO NPs in Ceriodaphnia dubia: Relative contributions of dissolved ions and particles. *Aquatic Toxicology*, **2016**, 177, 494-502	5.1	21
143	Acetylcholinesterase (AChE)-mediated immobilization of silver nanoparticles for the detection of organophosphorus pesticides. *RSC Advances*, **2016**, 6, 64769-64777	3.7	13
142	Determination of mercury(II) ions in aqueous solution using silver nanorods as a probe. *Analytical Methods*, **2016**, 8, 3756-3762	3.2	8
141	A comprehensive investigation of the differential interaction of human serum albumin with gold nanoparticles based on the variation in morphology and surface functionalization. *RSC Advances*, **2016**, 6, 52683-52694	3.7	20

140	Differential toxicity of Al2O3 particles on Gram-positive and Gram-negative sediment bacterial isolates from freshwater. *Environmental Science and Pollution Research*, **2016**, 23, 12095-106	5.1	17
139	Differential effects of P25 TiO2 nanoparticles on freshwater green microalgae: Chlorella and Scenedesmus species. *Aquatic Toxicology*, **2016**, 176, 161-71	5.1	36
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