Yongsheng Chen

List of Publications by Citations

199 papers	15,950 citations	57 h-index	123 g-index
206 ext. papers	17,748 ext. citations	7.9 avg, IF	6.81 L-index

#	Paper	IF	Citations
199	Solution properties of single-walled carbon nanotubes. *Science*, **1998**, 282, 95-8	33.3	2120
198	Mechanism of photogenerated reactive oxygen species and correlation with the antibacterial properties of engineered metal-oxide nanoparticles. *ACS Nano*, **2012**, 6, 5164-73	16.7	993
197	Nitrogen-Doped Mesoporous Carbon Promoted Chemical Adsorption of Sulfur and Fabrication of High-Areal-Capacity Sulfur Cathode with Exceptional Cycling Stability for Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2014**, 24, 1243-1250	15.6	820
196	Life-cycle analysis on biodiesel production from microalgae: water footprint and nutrients balance. *Bioresource Technology*, **2011**, 102, 159-65	11	590
195	Dissolution of Single-Walled Carbon Nanotubes. *Advanced Materials*, **1999**, 11, 834-840	24	521
194	Stability of commercial metal oxide nanoparticles in water. *Water Research*, **2008**, 42, 2204-12	12.5	467
193	Impact of natural organic matter and divalent cations on the stability of aqueous nanoparticles. *Water Research*, **2009**, 43, 4249-57	12.5	448
192	Toxicity and bioaccumulation of TiO2 nanoparticle aggregates in Daphnia magna. *Chemosphere*, **2010**, 78, 209-15	8.4	381
191	Modeling the primary size effects of citrate-coated silver nanoparticles on their ion release kinetics. *Environmental Science & Technology*, **2011**, 45, 4422-8	10.3	370
190	Highly active catalysts of gold nanoparticles supported on three-dimensionally ordered macroporous LaFeO3 for soot oxidation. *Angewandte Chemie - International Edition*, **2011**, 50, 2326-9	16.4	271
189	Acute toxicities of six manufactured nanomaterial suspensions to Daphnia magna. *Journal of Nanoparticle Research*, **2009**, 11, 67-75	2.3	267
188	Preparation of a novel TiO2-based p-n junction nanotube photocatalyst. *Environmental Science & Technology*, **2005**, 39, 1201-8	10.3	264
187	Harvesting algal biomass for biofuels using ultrafiltration membranes. *Bioresource Technology*, **2010**, 101, 5297-304	11	256
186	Green Synthesis of Iron Nanoparticles and Their Environmental Applications and Implications. *Nanomaterials*, **2016**, 6,	5.4	253
185	Enhanced bioaccumulation of cadmium in carp in the presence of titanium dioxide nanoparticles. *Chemosphere*, **2007**, 67, 160-6	8.4	252
184	High-Concentration Aqueous Dispersions of MoS2. *Advanced Functional Materials*, **2013**, 23, 3577-3583	15.6	244
183	Potential ion exchange membranes and system performance in reverse electrodialysis for power generation: A review. *Journal of Membrane Science*, **2015**, 486, 71-88	9.6	215

182	Trophic transfer of TiO(2) nanoparticles from Daphnia to zebrafish in a simplified freshwater food chain. *Chemosphere*, **2010**, 79, 928-33	8.4	207
181	The impact of ZnO nanoparticle aggregates on the embryonic development of zebrafish (Danio rerio). *Nanotechnology*, **2009**, 20, 195103	3.4	206
180	Phytotoxicity, accumulation and transport of silver nanoparticles by Arabidopsis thaliana. *Nanotoxicology*, **2013**, 7, 323-37	5.3	204
179	Photogeneration of reactive oxygen species on uncoated silver, gold, nickel, and silicon nanoparticles and their antibacterial effects. *Langmuir*, **2013**, 29, 4647-51	4	194
178	The impact of cerium oxide nanoparticles on tomato (Solanum lycopersicum L.) and its implications for food safety. *Metallomics*, **2012**, 4, 1105-12	4.5	193
177	Toxicity assessment of manufactured nanomaterials using the unicellular green alga Chlamydomonas reinhardtii. *Chemosphere*, **2008**, 73, 1121-8	8.4	175
176	Toxicity and cellular responses of intestinal cells exposed to titanium dioxide. *Cell Biology and Toxicology*, **2010**, 26, 225-38	7.4	161
175	Electrochemical oxidation of ofloxacin using a TiO2-based SnO2-Sb/polytetrafluoroethylene resin-PbO2 electrode: Reaction kinetics and mass transfer impact. *Applied Catalysis B: Environmental*, **2017**, 203, 515-525	21.8	138
174	Translocation and biotransformation of CuO nanoparticles in rice (Oryza sativa L.) plants. *Environmental Pollution*, **2015**, 197, 99-107	9.3	137
173	Disruption of zebrafish (Danio rerio) reproduction upon chronic exposure to TiO□nanoparticles. *Chemosphere*, **2011**, 83, 461-7	8.4	127
172	Low-cost antifouling PVC ultrafiltration membrane fabrication with Pluronic F 127: Effect of additives on properties and performance. *Desalination*, **2012**, 307, 26-33	10.3	124
171	CO2 emissions embodied in China□s exports from 2002 to 2008: A structural decomposition analysis. *Energy Policy*, **2011**, 39, 7381-7388	7.2	124
170	Enhanced Accumulation of Arsenate in Carp in the Presence of Titanium Dioxide Nanoparticles. *Water, Air, and Soil Pollution*, **2007**, 178, 245-254	2.6	123
169	Trans-generational impact of cerium oxide nanoparticles on tomato plants. *Metallomics*, **2013**, 5, 753-9	4.5	108
168	Influence of titanium dioxide nanoparticles on speciation and bioavailability of arsenite. *Environmental Pollution*, **2009**, 157, 1165-70	9.3	107
167	Oxidative stress and growth inhibition in the freshwater fish Carassius auratus induced by chronic exposure to sublethal fullerene aggregates. *Environmental Toxicology and Chemistry*, **2008**, 27, 1979-85	3.8	107
166	Attachment efficiency of nanoparticle aggregation in aqueous dispersions: modeling and experimental validation. *Environmental Science & Technology*, **2012**, 46, 7054-62	10.3	98
165	Photocatalytic degradation of 2,4-dichlorophenol using nanoscale Fe/TiO2. *Chemical Engineering Journal*, **2012**, 181-182, 189-195	14.7	96

164	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in Lithium Sulfur Battery: An X-ray Absorption Spectroscopic Study. *Journal of Physical Chemistry C*, **2014**, 118, 7765-7771	3.8	93
163	Nanocomposite reverse electrodialysis (RED) ion-exchange membranes for salinity gradient power generation. *Journal of Membrane Science*, **2014**, 460, 139-147	9.6	92
162	Stability and removal of water soluble CdTe quantum dots in water. *Environmental Science & Technology*, **2008**, 42, 321-5	10.3	91
161	Fabrication of uniform size titanium oxide nanotubes: Impact of current density and solution conditions. *Scripta Materialia*, **2007**, 56, 373-376	5.6	88
160	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. *Nanomaterials*, **2017**, 7,	5.4	86
159	Growth and lipid accumulation properties of a freshwater microalga, Chlorella ellipsoidea YJ1, in domestic secondary effluents. *Applied Energy*, **2011**, 88, 3295-3299	10.7	85
158	Nanoparticles inhibit DNA replication by binding to DNA: modeling and experimental validation. *ACS Nano*, **2013**, 7, 9664-74	16.7	78
157	Size effects on adsorption of hematite nanoparticles on E. coli cells. *Environmental Science & Technology*, **2011**, 45, 2172-8	10.3	78
156	Plant Mediated Green Synthesis of CuO Nanoparticles: Comparison of Toxicity of Engineered and Plant Mediated CuO Nanoparticles towards Daphnia magna. *Nanomaterials*, **2016**, 6,	5.4	77
155	Structure of Cerium Phosphate Glasses: Molecular Dynamics Simulation. *Journal of the American Ceramic Society*, **2011**, 94, 2393-2401	3.8	74
154	Influence of dissolved oxygen on aggregation kinetics of citrate-coated silver nanoparticles. *Environmental Pollution*, **2011**, 159, 3757-62	9.3	74
153	High performance ultrafiltration membrane composed of PVDF blended with its derivative copolymer PVDF-g-PEGMA. *Journal of Membrane Science*, **2013**, 445, 66-75	9.6	72
152	Effects of aqueous stable fullerene nanocrystals (nC60) on Daphnia magna: evaluation of sub-lethal reproductive responses and accumulation. *Chemosphere*, **2009**, 77, 1482-7	8.4	72
151	Effect of natural organic matter on the aggregation kinetics of CeO2 nanoparticles in KCl and CaCl2 solutions: measurements and modeling. *Journal of Hazardous Materials*, **2012**, 209-210, 264-70	12.8	69
150	Evaluation of an innovative polyvinyl chloride (PVC) ultrafiltration membrane for wastewater treatment. *Separation and Purification Technology*, **2009**, 70, 71-78	8.3	69
149	Energetics and electronic structures of AlN nanotubes/wires and their potential application as ammonia sensors. *Nanotechnology*, **2007**, 18, 424023	3.4	67
148	Sulfur poisoning mechanism of steam reforming catalysts: an X-ray absorption near edge structure (XANES) spectroscopic study. *Physical Chemistry Chemical Physics*, **2010**, 12, 5707-11	3.6	65
147	Surface-coating-dependent dissolution, aggregation, and reactive oxygen species (ROS) generation of silver nanoparticles under different irradiation conditions. *Environmental Science & Technology*, **2013**, 47, 10293-301	10.3	64

146	Modeling of power generation from the mixing of simulated saline and freshwater with a reverse electrodialysis system: The effect of monovalent and multivalent ions. *Applied Energy*, **2013**, 110, 244-251	10.7	63
145	Size- and Surface-dependent Stability, Electronic Properties, and Potential as Chemical Sensors: Computational Studies on One-dimensional ZnO Nanostructures. *Journal of Physical Chemistry C*, **2008**, 112, 13926-13931	3.8	63
144	Interactions of 14C-labeled multi-walled carbon nanotubes with soil minerals in water. *Environmental Pollution*, **2012**, 166, 75-81	9.3	60
143	Impacts of hematite nanoparticle exposure on biomechanical, adhesive, and surface electrical properties of Escherichia coli cells. *Applied and Environmental Microbiology*, **2012**, 78, 3905-15	4.8	60
142	Fe2O3 nanocomposite PVC membrane with enhanced properties and separation performance. *Journal of Membrane Science*, **2017**, 529, 170-184	9.6	57
141	Interaction force measurement between E. coli cells and nanoparticles immobilized surfaces by using AFM. *Colloids and Surfaces B: Biointerfaces*, **2011**, 82, 316-24	6	56
140	Aggregation kinetics of CeO2 nanoparticles in KCl and CaCl2 solutions: measurements and modeling. *Journal of Nanoparticle Research*, **2011**, 13, 6483-6491	2.3	55
139	Characterization of dissolved organic matters responsible for ultrafiltration membrane fouling in algal harvesting. *Algal Research*, **2013**, 2, 223-229	5	53
138	Sulfur poisoning of CeO2Al2O3-supported mono- and bi-metallic Ni and Rh catalysts in steam reforming of liquid hydrocarbons at low and high temperatures. *Applied Catalysis A: General*, **2010**, 390, 210-218	5.1	53
137	Enhanced permeation and antifouling performance of polyvinyl chloride (PVC) blend Pluronic F127 ultrafiltration membrane by using salt coagulation bath (SCB). *Journal of Membrane Science*, **2018**, 548, 32-41	9.6	53
136	Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. *Journal of Materials Chemistry*, **2012**, 22, 6061		51
135	Comparative Study on the Sulfur Tolerance and Carbon Resistance of Supported Noble Metal Catalysts in Steam Reforming of Liquid Hydrocarbon Fuel. *ACS Catalysis*, **2012**, 2, 1127-1137	13.1	49
134	The First Structurally Characterized Homofullerene (Fulleroid). *Journal of the American Chemical Society*, **1999**, 121, 7971-7972	16.4	49
133	Evaluation of electrochemical properties and reverse electrodialysis performance for porous cation exchange membranes with sulfate-functionalized iron oxide. *Journal of Membrane Science*, **2015**, 473, 210-217	9.6	48
132	Fouling resistant nanocomposite cation exchange membrane with enhanced power generation for reverse electrodialysis. *Journal of Membrane Science*, **2016**, 516, 162-171	9.6	48
131	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. *RSC Advances*, **2015**, 5, 17897-17904	3.7	47
130	Ultra-Deep Adsorptive Desulfurization of Light-Irradiated Diesel Fuel over Supported TiO2CeO2Adsorbents. *Industrial & Engineering Chemistry Research*, **2013**, 52, 15746-15755	3.9	46
129	Oxidative dissolution of polymer-coated CdSe/ZnS quantum dots under UV irradiation: mechanisms and kinetics. *Environmental Pollution*, **2012**, 164, 259-66	9.3	45

128	Surface interactions affect the toxicity of engineered metal oxide nanoparticles toward Paramecium. *Chemical Research in Toxicology*, **2012**, 25, 1675-81	4	44
127	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. *Environmental Science & Technology*, **2019**, 53, 868-877	10.3	43
126	Air-promoted adsorptive desulfurization of diesel fuel over Ti-Ce mixed metal oxides. *AICHE Journal*, **2015**, 61, 631-639	3.6	41
125	Adsorption of hematite nanoparticles onto Caco-2 cells and the cellular impairments: effect of particle size. *Nanotechnology*, **2010**, 21, 355103	3.4	41
124	Characterization of oxygen containing functional groups on carbon materials with oxygen K-edge X-ray absorption near edge structure spectroscopy. *Carbon*, **2011**, 49, 1745-1751	10.4	40
123	Monovalent-anion selective and antifouling polyelectrolytes multilayer anion exchange membrane for reverse electrodialysis. *Journal of Membrane Science*, **2018**, 567, 68-75	9.6	40
122	Characteristics and performance of PVDF membrane prepared by using NaCl coagulation bath: Relationship between membrane polymorphous structure and organic fouling. *Journal of Membrane Science*, **2019**, 579, 22-32	9.6	39
121	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. *Environmental Science: Nano*, **2019**, 6, 1283-1302	7.1	38
120	Do all wurtzite nanotubes prefer faceted ones?. *Journal of Chemical Physics*, **2009**, 130, 204706	3.9	38
119	Influence of sulfur on the carbon deposition in steam reforming of liquid hydrocarbons over CeO2⁄Al2O3 supported Ni and Rh catalysts. *Applied Catalysis A: General*, **2011**, 394, 32-40	5.1	38
118	Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous MnxCe1-xO⁄SiO2 catalysts. *Applied Catalysis B: Environmental*, **2019**, 254, 246-259	21.8	37
117	Efficient membrane microalgal harvesting: Pilot-scale performance and techno-economic analysis. *Journal of Cleaner Production*, **2019**, 218, 83-95	10.3	36
116	Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. *Desalination*, **2017**, 406, 16-24	10.3	36
115	Differentiating Solutes with Precise Nanofiltration for Next Generation Environmental Separations: A Review. *Environmental Science & Technology*, **2021**, 55, 1359-1376	10.3	36
114	Effects of aqueous stable fullerene nanocrystal (nC60) on Scenedesmus obliquus: evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. *Chemosphere*, **2015**, 122, 162-167	8.4	35
113	Experimental approach for an in vitro toxicity assay with non-aggregated quantum dots. *Toxicology in Vitro*, **2009**, 23, 955-62	3.6	34
112	A comparison study: The different impacts of sodium hypochlorite on PVDF and PSF ultrafiltration (UF) membranes. *Water Research*, **2017**, 109, 227-236	12.5	33
111	Cellulose nanocrystal/silver (CNC/Ag) thin-film nanocomposite nanofiltration membranes with multifunctional properties. *Environmental Science: Nano*, **2020**, 7, 803-816	7.1	30

110	Stability of an H2-producing photocatalyst (Ru/(CuAg)0.15In0.3Zn1.4S2) in aqueous solution under visible light irradiation. *International Journal of Hydrogen Energy*, **2013**, 38, 1286-1296	6.7	30
109	The pH effects on H2 evolution kinetics for visible light water splitting over the Ru/(CuAg)0.15In0.3Zn1.4S2 photocatalyst. *International Journal of Hydrogen Energy*, **2013**, 38, 11727-11736	6.7	30
108	Imaging and Quantifying the Morphology and Nanoelectrical Properties of Quantum Dot Nanoparticles Interacting with DNA. *Journal of Physical Chemistry C*, **2011**, 115, 599-606	3.8	30
107	An integrative modeling and experimental study on the ionic resistance of ion-exchange membranes. *Journal of Membrane Science*, **2017**, 524, 362-369	9.6	29
106	Taking advantage of rotifer sensitivity to rotenone to prevent pond crashes for algal-biofuel production. *Algal Research*, **2015**, 10, 100-103	5	29
105	Forming mechanism study of unique pillar-like and defect-free PVDF ultrafiltration membranes with high flux. *Journal of Membrane Science*, **2015**, 487, 1-11	9.6	29
104	Robust cellulose-based composite adsorption membrane for heavy metal removal. *Journal of Hazardous Materials*, **2021**, 406, 124746	12.8	29
103	Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. *Desalination*, **2017**, 411, 19-27	10.3	28
102	Enhanced Ionic Conductivity and Power Generation Using Ion-Exchange Resin Beads in a Reverse-Electrodialysis Stack. *Environmental Science & Technology*, **2015**, 49, 14717-24	10.3	28
101	Vernalophrys algivore gen. nov., sp. nov. (Rhizaria: Cercozoa: Vampyrellida), a New Algal Predator Isolated from Outdoor Mass Culture of Scenedesmus dimorphus. *Applied and Environmental Microbiology*, **2015**, 81, 3900-13	4.8	27
100	Critical evaluation and modeling of algal harvesting using dissolved air flotation. *Biotechnology and Bioengineering*, **2014**, 111, 2477-85	4.9	27
99	Effect of inorganic filler size on electrochemical performance of nanocomposite cation exchange membranes for salinity gradient power generation. *Journal of Membrane Science*, **2015**, 482, 33-41	9.6	27
98	Local Structure of Cerium in Aluminophosphate and Silicophosphate Glasses. *Journal of the American Ceramic Society*, **2011**, 94, 2442-2451	3.8	27
97	Achieving Ferromagnetism in Single-Crystalline ZnS Wurtzite Nanowires via Chromium Doping. *Journal of Physical Chemistry C*, **2010**, 114, 12099-12103	3.8	27
96	Chemical cleaning of algae-fouled ultrafiltration (UF) membrane by sodium hypochlorite (NaClO): Characterization of membrane and formation of halogenated by-products. *Journal of Membrane Science*, **2020**, 598, 117662	9.6	27
95	Efficient visible light-driven in situ photocatalytic destruction of harmful alga by worm-like N,P co-doped TiO2/expanded graphite carbon layer (NPT-EGC) floating composites. *Catalysis Science and Technology*, **2017**, 7, 2335-2346	5.5	26
94	Effects of aqueous stable fullerene nanocrystal (nC60) on copper (trace necessary nutrient metal): Enhanced toxicity and accumulation of copper in Daphnia magna. *Chemosphere*, **2013**, 92, 1245-52	8.4	26
93	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. *ACS Nano* , **2021**, 15, 5838-5860	16.7	26

92	Human intestinal epithelial cells exhibit a cellular response indicating a potential toxicity upon exposure to hematite nanoparticles. *Cell Biology and Toxicology*, **2012**, 28, 343-68	7.4	25
91	Effects of stable aqueous fullerene nanocrystal (nC60) on Daphnia magna: evaluation of hop frequency and accumulations under different conditions. *Journal of Environmental Sciences*, **2011**, 23, 322-9	6.4	25
90	The preparation and performance of lignin-based activated carbon fiber adsorbents for treating gaseous streams. *Frontiers of Chemical Science and Engineering*, **2017**, 11, 328-337	4.5	24
89	Green synthesis of ZnO hierarchical microstructures by and their antibacterial activity. *Saudi Journal of Biological Sciences*, **2019**, 26, 1364-1371	4	24
88	Toxicity of biosynthesized silver nanoparticles to aquatic organisms of different trophic levels. *Chemosphere*, **2020**, 258, 127346	8.4	24
87	Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. *Journal of Hazardous Materials*, **2020**, 394, 122555	12.8	24
86	The Selective Use of Hypochlorite to Prevent Pond Crashes for Algae-Biofuel Production. *Water Environment Research*, **2016**, 88, 70-8	2.8	24
85	Anion-exchange membrane with ion-nanochannels to beat trade-off between membrane conductivity and acid blocking performance for waste acid reclamation. *Journal of Membrane Science*, **2019**, 573, 657-667	9.6	24
84	Mechanism Exploration of Ion Transport in Nanocomposite Cation Exchange Membranes. *ACS Applied Materials & Interfaces*, **2017**, 9, 13491-13499	9.5	23
83	Bioaccumulation of decabromodiphenyl ether (BDE209) in earthworms in the presence of lead (Pb). *Chemosphere*, **2014**, 106, 57-64	8.4	23
82	Use of Copper to Selectively Inhibit Brachionus calyciflorus (Predator) Growth in Chlorella kessleri (Prey) Mass Cultures for Algae Biodiesel Production. *International Journal of Molecular Sciences*, **2015**, 16, 20674-84	6.3	23
81	Energy, water and nutrient impacts of California-grown vegetables compared to controlled environmental agriculture systems in Atlanta, GA. *Resources, Conservation and Recycling*, **2017**, 122, 319-325	11.9	22
80	A freestanding graphene oxide membrane for efficiently harvesting salinity gradient power. *Carbon* , **2018**, 138, 410-418	10.4	22
79	S/O-Functionalities on Modified Carbon Materials Governing Adsorption of Water Vapor. *Journal of Physical Chemistry C*, **2013**, 117, 23057-23065	3.8	22
78	Gigaton problems need gigaton solutions. *Environmental Science & Technology*, **2010**, 44, 4037-41	10.3	22
77	The inhibition effect of recycled Scenedesmus acuminatus culture media: Influence of growth phase, inhibitor identification and removal. *Algal Research*, **2019**, 42, 101612	5	21
76	Alpha-Fe(2)O(3) elicits diameter-dependent effects during exposure to an in vitro model of the human placenta. *Cell Biology and Toxicology*, **2014**, 30, 31-53	7.4	21
75	Photocatalytic hydrogen production under visible-light irradiation on (CuAg)0.15In0.3Zn1.4S2 synthesized by precipitation and calcination. *Chinese Journal of Catalysis*, **2013**, 34, 1926-1935	11.3	21

74	Highly Active Catalysts of Gold Nanoparticles Supported on Three-Dimensionally Ordered Macroporous LaFeO3 for Soot Oxidation. *Angewandte Chemie*, **2011**, 123, 2374-2377	3.6	21
73	A Novel Hybrid Poly (vinyl alcohol) (PVA)/Poly (2,6-dimethyl-1,4-phenylene oxide) (PPO) Membranes for Reverse Electrodialysis Power System. *Electrochimica Acta*, **2017**, 239, 65-73	6.7	20
72	Thin-film composite forward osmosis membranes with substrate layer composed of polysulfone blended with PEG or polysulfone grafted PEG methyl ether methacrylate. *Frontiers of Chemical Science and Engineering*, **2016**, 10, 562-574	4.5	20
71	Evaluation of DLVO interaction between a sphere and a cylinder. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 415, 218-229	5.1	20
70	Two-Dimensional TiCT MXene/GO Hybrid Membranes for Highly Efficient Osmotic Power Generation. *Environmental Science & Technology*, **2020**, 54, 2931-2940	10.3	19
69	Speciation analysis of silver sulfide nanoparticles in environmental waters by magnetic solid-phase extraction coupled with ICP-MS. *Journal of Analytical Atomic Spectrometry*, **2016**, 31, 2285-2292	3.7	18
68	Polymeric Nanocomposites of Iron□Oxide Nanoparticles (IONPs) Synthesized Using Terminalia chebula Leaf Extract for Enhanced Adsorption of Arsenic(V) from Water. *Colloids and Interfaces*, **2019**, 3, 17	3	17
67	Air-Promoted Adsorptive Desulfurization over Ti0.9Ce0.1O2 Mixed Oxides from Diesel Fuel under Ambient Conditions. *ChemCatChem*, **2013**, 5, 3582-3586	5.2	17
66	Tannic acid-metal complex modified MXene membrane for contaminants removal from water. *Journal of Membrane Science*, **2021**, 622, 119042	9.6	17
65	Impacts of organic matter on the toxicity of biosynthesized silver nanoparticles to green microalgae Chlorella vulgaris. *Environmental Research*, **2020**, 185, 109433	7.9	15
64	Coexposed nanoparticulate Ag alleviates the acute toxicity induced by ionic Agin vivo. *Science of the Total Environment*, **2020**, 723, 138050	10.2	15
63	The prevention of saltwater algal pond contamination using the electron transport chain disruptor, rotenone. *Algal Research*, **2016**, 18, 209-212	5	15
62	Quantum dot binding to DNA: single-molecule imaging with atomic force microscopy. *Biotechnology Journal*, **2013**, 8, 110-6	5.6	15
61	The Use of the Schizonticidal Agent Quinine Sulfate to Prevent Pond Crashes for Algal-Biofuel Production. *International Journal of Molecular Sciences*, **2015**, 16, 27450-6	6.3	15
60	Efficient photocatalytic H2 production using visible-light irradiation and (CuAg)xIn2xZn2(1 □2x)S2 photocatalysts with tunable band gaps. *International Journal of Energy Research*, **2014**, 38, 1513-1521	4.5	14
59	Significant Enrichment of Engineered Nanoparticles in Water Surface Microlayer. *Environmental Science and Technology Letters*, **2016**, 3, 381-385	11	13
58	The Influence of Reaction Temperature on the Formation and Photocatalytic Hydrogen Generation of (001) Faceted TiO2 Nanosheets. *ChemNanoMat*, **2015**, 1, 270-275	3.5	13
57	Transformation of acetaminophen in solution containing both peroxymonosulfate and chlorine: Performance, mechanism, and disinfection by-product formation. *Water Research*, **2021**, 189, 116605	12.5	13

56	Electrochemical degradation of reverse osmosis concentrate (ROC) using the electrodeposited Ti/TiO2-NTs/PbO2 electrode. *Separation and Purification Technology*, **2021**, 258, 118056	8.3	13
55	Improving antifouling performance for the harvesting of Scenedesmus acuminatus using Fe2O3 nanoparticles incorporated PVC nanocomposite membranes. *Journal of Applied Polymer Science*, **2019**, 136, 47685	2.9	12
54	Thermodynamic analysis of a solar thermal facilitated membrane seawater desalination process. *Journal of Cleaner Production*, **2020**, 256, 120398	10.3	12
53	Impact of sodium hypochlorite (NaClO) on polysulfone (PSF) ultrafiltration membranes: The evolution of membrane performance and fouling behavior. *Separation and Purification Technology*, **2017**, 175, 238-247	8.3	12
52	Identification of auto-inhibitors in the reused culture media of the Chlorophyta Scenedesmus acuminatus. *Algal Research*, **2019**, 44, 101665	5	12
51	Fit-for-Purpose Design of Nanofiltration Membranes for Simultaneous Nutrient Recovery and Micropollutant Removal. *Environmental Science & Technology*, **2021**, 55, 3352-3361	10.3	12
50	Fate of engineered cerium oxide nanoparticles in an aquatic environment and their toxicity toward 14 ciliated protist species. *Environmental Pollution*, **2016**, 212, 584-591	9.3	11
49	Experimental determination of conduction and valence bands of semiconductor nanoparticles using Kelvin probe force microscopy. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	11
48	Facile synthesis of birnessite-type K2Mn4O8 and cryptomelane-type K2-xMn8O16 catalysts and their excellent catalytic performance for soot combustion with high resistance to H2O and SO2. *Applied Catalysis B: Environmental*, **2021**, 285, 119779	21.8	11
47	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg)0.15In0.3Zn1.4S2 under visible light irradiation. *Journal of Renewable and Sustainable Energy*, **2014**, 6, 033131	2.5	10
46	Application of embryonic and adult zebrafish for nanotoxicity assessment. *Methods in Molecular Biology*, **2012**, 926, 317-29	1.4	10
45	Influence of growth phase on the harvesting of Scenedesmus acuminatus using ultrafiltration. *Science of the Total Environment*, **2019**, 660, 25-31	10.2	10
44	Study on the Transport Mechanism of a Freestanding Graphene Oxide Membrane for Forward Osmosis. *Environmental Science & Technology*, **2020**, 54, 5802-5812	10.3	10
43	Organic frameworks induce synthesis and growth mechanism of well-ordered dumbbell-shaped ZnO particles. *Materials Chemistry and Physics*, **2019**, 232, 129-136	4.4	9
42	Electrochemical impedance spectroscopy of enhanced layered nanocomposite ion exchange membranes. *Journal of Membrane Science*, **2017**, 541, 611-620	9.6	9
41	Atomic force microscopy study of the interaction of DNA and nanoparticles. *Advances in Experimental Medicine and Biology*, **2014**, 811, 93-109	3.6	9
40	Harvesting of Scenedesmus acuminatus using ultrafiltration membranes operated in alternative feed directions. *Journal of Bioscience and Bioengineering*, **2019**, 128, 103-109	3.3	9
39	Incorporation of Cellulose Nanocrystals into Graphene Oxide Membranes for Efficient Antibiotic Removal at High Nutrient Recovery. *ACS Applied Materials & Interfaces*, **2021**, 13, 14102-14111	9.5	8

38	Hierarchical Porous K-OMS-2/3DOM-m Ti0.7Si0.3O2 Catalysts for Soot Combustion: Easy Preparation, High Catalytic Activity, and Good Resistance to H2O and SO2. *ACS Catalysis*, **2021**, 11, 5554-5571	13.1	8
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