

Yongsheng Chen

List of Publications by Year in descending order

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204
papers

19,806
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16451

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126
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206
all docs

206
docs citations

206
times ranked

23730
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Properties of Single-Walled Carbon Nanotubes. , 1998, 282, 95-98.		2,352
2	Mechanism of Photogenerated Reactive Oxygen Species and Correlation with the Antibacterial Properties of Engineered Metal-Oxide Nanoparticles. ACS Nano, 2012, 6, 5164-5173.	14.6	1,282
3	Nitrogenâ€Doped Mesoporous Carbon Promoted Chemical Adsorption of Sulfur and Fabrication of Highâ€Arealâ€Capacity Sulfur Cathode with Exceptional Cycling Stability for Lithiumâ€Sulfur Batteries. Advanced Functional Materials, 2014, 24, 1243-1250.	14.9	904
4	Life-cycle analysis on biodiesel production from microalgae: Water footprint and nutrients balance. Bioresource Technology, 2011, 102, 159-165.	9.6	684
5	Dissolution of Single-Walled Carbon Nanotubes. Advanced Materials, 1999, 11, 834-840.	21.0	557
6	Stability of commercial metal oxide nanoparticles in water. Water Research, 2008, 42, 2204-2212.	11.3	519
7	Impact of natural organic matter and divalent cations on the stability of aqueous nanoparticles. Water Research, 2009, 43, 4249-4257.	11.3	508
8	Toxicity and bioaccumulation of TiO2 nanoparticle aggregates in Daphnia magna. Chemosphere, 2010, 78, 209-215.	8.2	437
9	Modeling the Primary Size Effects of Citrate-Coated Silver Nanoparticles on Their Ion Release Kinetics. Environmental Science & Technology, 2011, 45, 4422-4428.	10.0	418
10	Green Synthesis of Iron Nanoparticles and Their Environmental Applications and Implications. Nanomaterials, 2016, 6, 209.	4.1	398
11	Highly Active Catalysts of Gold Nanoparticles Supported on Threeâ€Dimensionally Ordered Macroporous LaFeO ₃ for Soot Oxidation. Angewandte Chemie - International Edition, 2011, 50, 2326-2329.	13.8	306
12	Enhanced bioaccumulation of cadmium in carp in the presence of titanium dioxide nanoparticles. Chemosphere, 2007, 67, 160-166.	8.2	289
13	Acute toxicities of six manufactured nanomaterial suspensions to DaphniaÂmagna. Journal of Nanoparticle Research, 2009, 11, 67-75.	1.9	289
14	Harvesting algal biomass for biofuels using ultrafiltration membranes. Bioresource Technology, 2010, 101, 5297-5304.	9.6	288
15	Preparation of a Novel TiO2-Based pâ”n Junction Nanotube Photocatalyst. Environmental Science & Technology, 2005, 39, 1201-1208.	10.0	283
16	Highâ€Concentration Aqueous Dispersions of MoS ₂ . Advanced Functional Materials, 2013, 23, 3577-3583.	14.9	271
17	Potential ion exchange membranes and system performance in reverse electrodialysis for power generation: A review. Journal of Membrane Science, 2015, 486, 71-88.	8.2	263
18	Phytotoxicity, accumulation and transport of silver nanoparticles by <i>Arabidopsis thaliana</i> . Nanotoxicology, 2013, 7, 323-337.	3.0	261

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19	Trophic transfer of TiO ₂ nanoparticles from daphnia to zebrafish in a simplified freshwater food chain. <i>Chemosphere</i> , 2010, 79, 928-933.	8.2	245
20	Photogeneration of Reactive Oxygen Species on Uncoated Silver, Gold, Nickel, and Silicon Nanoparticles and Their Antibacterial Effects. <i>Langmuir</i> , 2013, 29, 4647-4651.	3.5	244
21	The impact of ZnO nanoparticle aggregates on the embryonic development of zebrafish (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2011, 45, 10743-10751.	2.6	241
22	The impact of cerium oxide nanoparticles on tomato (<i>Solanum lycopersicum</i> L.) and its implications for food safety. <i>Metallomics</i> , 2012, 4, 1105.	2.4	229
23	Electrochemical oxidation of ofloxacin using a TiO ₂ -based SnO ₂ -Sb/polytetrafluoroethylene resin-PbO ₂ electrode: Reaction kinetics and mass transfer impact. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 515-525.	20.2	212
24	Toxicity assessment of manufactured nanomaterials using the unicellular green alga <i>Chlamydomonas reinhardtii</i> . <i>Chemosphere</i> , 2008, 73, 1121-1128.	8.2	189
25	Toxicity and cellular responses of intestinal cells exposed to titanium dioxide. <i>Cell Biology and Toxicology</i> , 2010, 26, 225-238.	5.3	178
26	Translocation and biotransformation of CuO nanoparticles in rice (<i>Oryza sativa</i> L.) plants. <i>Environmental Pollution</i> , 2015, 197, 99-107.	7.5	174
27	Differentiating Solutes with Precise Nanofiltration for Next Generation Environmental Separations: A Review. <i>Environmental Science & Technology</i> , 2021, 55, 1359-1376.	10.0	156
28	Disruption of zebrafish (<i>Danio rerio</i>) reproduction upon chronic exposure to TiO ₂ nanoparticles. <i>Chemosphere</i> , 2011, 83, 461-467.	8.2	151
29	Low-cost antifouling PVC ultrafiltration membrane fabrication with Pluronic F 127: Effect of additives on properties and performance. <i>Desalination</i> , 2012, 307, 26-33.	8.2	145
30	CO ₂ emissions embodied in China's exports from 2002 to 2008: A structural decomposition analysis. <i>Energy Policy</i> , 2011, 39, 7381-7388.	8.8	140
31	Enhanced Accumulation of Arsenate in Carp in the Presence of Titanium Dioxide Nanoparticles. <i>Water, Air, and Soil Pollution</i> , 2007, 178, 245-254.	2.4	132
32	Plant Mediated Green Synthesis of CuO Nanoparticles: Comparison of Toxicity of Engineered and Plant Mediated CuO Nanoparticles towards <i>Daphnia magna</i> . <i>Nanomaterials</i> , 2016, 6, 205.	4.1	128
33	Trans-generational impact of cerium oxide nanoparticles on tomato plants. <i>Metallomics</i> , 2013, 5, 753.	2.4	126
34	Oxidative stress and growth inhibition in the freshwater fish <i>Carassius auratus</i> induced by chronic exposure to sublethal fullerene aggregates. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1979-1985.	4.3	122
35	Influence of titanium dioxide nanoparticles on speciation and bioavailability of arsenite. <i>Environmental Pollution</i> , 2009, 157, 1165-1170.	7.5	122
36	Attachment Efficiency of Nanoparticle Aggregation in Aqueous Dispersions: Modeling and Experimental Validation. <i>Environmental Science & Technology</i> , 2012, 46, 7054-7062.	10.0	121

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37	Nanocomposite reverse electrodialysis (RED) ion-exchange membranes for salinity gradient power generation. <i>Journal of Membrane Science</i> , 2014, 460, 139-147.	8.2	117
38	Photocatalytic degradation of 2,4-dichlorophenol using nanoscale Fe/TiO ₂ . <i>Chemical Engineering Journal</i> , 2012, 181-182, 189-195.	12.7	113
39	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , 2017, 7, 21.	4.1	112
40	Stability and Removal of Water Soluble CdTe Quantum Dots in Water. <i>Environmental Science & Technology</i> , 2008, 42, 321-325.	10.0	102
41	Growth and lipid accumulation properties of a freshwater microalga, <i>Chlorella ellipsoidea</i> YJ1, in domestic secondary effluents. <i>Applied Energy</i> , 2011, 88, 3295-3299.	10.1	102
42	Mechanism of Enhanced Carbon Cathode Performance by Nitrogen Doping in Lithium-Sulfur Battery: An X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7765-7771.	3.1	99
43	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. <i>ACS Nano</i> , 2021, 15, 5838-5860.	14.6	97
44	Fabrication of uniform size titanium oxide nanotubes: Impact of current density and solution conditions. <i>Scripta Materialia</i> , 2007, 56, 373-376.	5.2	95
45	Nanoparticles Inhibit DNA Replication by Binding to DNA: Modeling and Experimental Validation. <i>ACS Nano</i> , 2013, 7, 9664-9674.	14.6	93
46	Size Effects on Adsorption of Hematite Nanoparticles on <i>E. coli</i> cells. <i>Environmental Science & Technology</i> , 2011, 45, 2172-2178.	10.0	92
47	Fe ₂ O ₃ nanocomposite PVC membrane with enhanced properties and separation performance. <i>Journal of Membrane Science</i> , 2017, 529, 170-184.	8.2	90
48	Influence of dissolved oxygen on aggregation kinetics of citrate-coated silver nanoparticles. <i>Environmental Pollution</i> , 2011, 159, 3757-3762.	7.5	85
49	Structure of Cerium Phosphate Glasses: Molecular Dynamics Simulation. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2393-2401.	3.8	84
50	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science & Technology</i> , 2019, 53, 868-877.	10.0	83
51	High performance ultrafiltration membrane composed of PVDF blended with its derivative copolymer PVDF-g-PEGMA. <i>Journal of Membrane Science</i> , 2013, 445, 66-75.	8.2	82
52	Effect of natural organic matter on the aggregation kinetics of CeO ₂ nanoparticles in KCl and CaCl ₂ solutions: Measurements and modeling. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 264-270.	12.4	81
53	Modeling of power generation from the mixing of simulated saline and freshwater with a reverse electrodialysis system: The effect of monovalent and multivalent ions. <i>Applied Energy</i> , 2013, 110, 244-251.	10.1	80
54	Effects of aqueous stable fullerene nanocrystals (nC ₆₀) on <i>Daphnia magna</i> : Evaluation of sub-lethal reproductive responses and accumulation. <i>Chemosphere</i> , 2009, 77, 1482-1487.	8.2	79

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55	Surface-Coating-Dependent Dissolution, Aggregation, and Reactive Oxygen Species (ROS) Generation of Silver Nanoparticles under Different Irradiation Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 130904083900006.	10.0	78
56	Enhanced permeation and antifouling performance of polyvinyl chloride (PVC) blend Pluronic F127 ultrafiltration membrane by using salt coagulation bath (SCB). <i>Journal of Membrane Science</i> , 2018, 548, 32-41.	8.2	77
57	Energetics and electronic structures of AlN nanotubes/wires and their potential application as ammonia sensors. <i>Nanotechnology</i> , 2007, 18, 424023.	2.6	76
58	Evaluation of an innovative polyvinyl chloride (PVC) ultrafiltration membrane for wastewater treatment. <i>Separation and Purification Technology</i> , 2009, 70, 71-78.	7.9	75
59	Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous $\text{MnxCe}_{1-x}\text{O}_x/\text{SiO}_2$ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 246-259.	20.2	73
60	Impacts of Hematite Nanoparticle Exposure on Biomechanical, Adhesive, and Surface Electrical Properties of <i>Escherichia coli</i> Cells. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3905-3915.	3.1	71
61	Interaction force measurement between <i>E. coli</i> cells and nanoparticles immobilized surfaces by using AFM. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 316-324.	5.0	70
62	Robust cellulose-based composite adsorption membrane for heavy metal removal. <i>Journal of Hazardous Materials</i> , 2021, 406, 124746.	12.4	70
63	Size- and Surface-dependent Stability, Electronic Properties, and Potential as Chemical Sensors: Computational Studies on One-dimensional ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13926-13931.	3.1	67
64	Sulfur poisoning mechanism of steam reforming catalysts: an X-ray absorption near edge structure (XANES) spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5707.	2.8	67
65	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. <i>RSC Advances</i> , 2015, 5, 17897-17904.	3.6	67
66	Aggregation kinetics of CeO_2 nanoparticles in KCl and CaCl_2 solutions: measurements and modeling. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6483-6491.	1.9	65
67	Interactions of ^{14}C -labeled multi-walled carbon nanotubes with soil minerals in water. <i>Environmental Pollution</i> , 2012, 166, 75-81.	7.5	65
68	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.3	65
69	Characteristics and performance of PVDF membrane prepared by using NaCl coagulation bath: Relationship between membrane polymorphous structure and organic fouling. <i>Journal of Membrane Science</i> , 2019, 579, 22-32.	8.2	65
70	Low temperature plasma-mediated synthesis of graphene nanosheets for supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 6061.	6.7	64
71	Characterization of dissolved organic matters responsible for ultrafiltration membrane fouling in algal harvesting. <i>Algal Research</i> , 2013, 2, 223-229.	4.6	64
72	Comparative Study on the Sulfur Tolerance and Carbon Resistance of Supported Noble Metal Catalysts in Steam Reforming of Liquid Hydrocarbon Fuel. <i>ACS Catalysis</i> , 2012, 2, 1127-1137.	11.2	63

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73	Revolutionizing Membrane Design Using Machine Learning-Bayesian Optimization. Environmental Science & Technology, 2022, 56, 2572-2581.	10.0	63
74	The First Structurally Characterized Homofullerene (Fulleroid). Journal of the American Chemical Society, 1999, 121, 7971-7972.	13.7	62
75	Sulfur poisoning of CeO ₂ -Al ₂ O ₃ -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.	4.3	62
76	Fouling resistant nanocomposite cation exchange membrane with enhanced power generation for reverse electrodialysis. Journal of Membrane Science, 2016, 516, 162-171.	8.2	62
77	Monovalent-anion selective and antifouling polyelectrolytes multilayer anion exchange membrane for reverse electrodialysis. Journal of Membrane Science, 2018, 567, 68-75.	8.2	61
78	Fit-for-Purpose Design of Nanofiltration Membranes for Simultaneous Nutrient Recovery and Micropollutant Removal. Environmental Science & Technology, 2021, 55, 3352-3361.	10.0	59
79	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.	8.2	57
80	Tannic acid-metal complex modified MXene membrane for contaminants removal from water. Journal of Membrane Science, 2021, 622, 119042.	8.2	56
81	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.	10.3	53
82	Air-promoted adsorptive desulfurization of diesel fuel over $\text{TiO}_2/\text{CeO}_2$ mixed metal oxides. AIChE Journal, 2015, 61, 631-639.	3.6	53
83	Oxidative dissolution of polymer-coated CdSe/ZnS quantum dots under UV irradiation: Mechanisms and kinetics. Environmental Pollution, 2012, 164, 259-266.	7.5	51
84	Ultra-Deep Adsorptive Desulfurization of Light-Irradiated Diesel Fuel over Supported $\text{TiO}_2/\text{CeO}_2$ Adsorbents. Industrial & Engineering Chemistry Research, 2013, 52, 15746-15755.	3.7	51
85	A comparison study: The different impacts of sodium hypochlorite on PVDF and PSF ultrafiltration (UF) membranes. Water Research, 2017, 109, 227-236.	11.3	51
86	Toxicity of biosynthesized silver nanoparticles to aquatic organisms of different trophic levels. Chemosphere, 2020, 258, 127346.	8.2	51
87	Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. Journal of Hazardous Materials, 2020, 394, 122555.	12.4	51
88	Transformation of acetaminophen in solution containing both peroxymonosulfate and chlorine: Performance, mechanism, and disinfection by-product formation. Water Research, 2021, 189, 116605.	11.3	50
89	Facile synthesis of birnessite-type $\text{K}_2\text{Mn}_4\text{O}_8$ and cryptomelane-type $\text{K}_{2-x}\text{Mn}_8\text{O}_{16}$ catalysts and their excellent catalytic performance for soot combustion with high resistance to H_2O and SO_2 . Applied Catalysis B: Environmental, 2021, 285, 119779.	20.2	50
90	Adsorption of hematite nanoparticles onto Caco-2 cells and the cellular impairments: effect of particle size. Nanotechnology, 2010, 21, 355103.	2.6	49

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91	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.	8.2	49
92	Cellulose nanocrystal/silver (CNC/Ag) thin-film nanocomposite nanofiltration membranes with multifunctional properties. Environmental Science: Nano, 2020, 7, 803-816.	4.3	49
93	Influence of sulfur on the carbon deposition in steam reforming of liquid hydrocarbons over CeO ₂ –Al ₂ O ₃ supported Ni and Rh catalysts. Applied Catalysis A: General, 2011, 394, 32-40.	4.3	48
94	Surface Interactions Affect the Toxicity of Engineered Metal Oxide Nanoparticles toward <i>Paramecium</i> . Chemical Research in Toxicology, 2012, 25, 1675-1681.	3.3	48
95	Efficient membrane microalgal harvesting: Pilot-scale performance and techno-economic analysis. Journal of Cleaner Production, 2019, 218, 83-95.	9.3	48
96	Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. Desalination, 2017, 406, 16-24.	8.2	44
97	Hierarchical Porous K-OMS-2/3DOM-m Ti _{0.7} Si _{0.3} O ₂ Catalysts for Soot Combustion: Easy Preparation, High Catalytic Activity, and Good Resistance to H ₂ O and SO ₂ . ACS Catalysis, 2021, 11, 5554-5571.	11.2	44
98	Experimental approach for an in vitro toxicity assay with non-aggregated quantum dots. Toxicology in Vitro, 2009, 23, 955-962.	2.4	43
99	Effects of aqueous stable fullerene nanocrystal (nC 60) on <i>Scenedesmus obliquus</i> : Evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. Chemosphere, 2015, 122, 162-167.	8.2	41
100	Two-Dimensional Ti ₃ C ₂ T _x MXene/GO Hybrid Membranes for Highly Efficient Osmotic Power Generation. Environmental Science & Technology, 2020, 54, 2931-2940.	10.0	41
101	Do all wurtzite nanotubes prefer faceted ones?. Journal of Chemical Physics, 2009, 130, 204706.	3.0	40
102	Vernalophrys algivore gen. nov., sp. nov. (Rhizaria: Cercozoa: Vampyrellida), a New Algal Predator Isolated from Outdoor Mass Culture of <i>Scenedesmus dimorphus</i> . Applied and Environmental Microbiology, 2015, 81, 3900-3913.	3.1	39
103	An integrative modeling and experimental study on the ionic resistance of ion-exchange membranes. Journal of Membrane Science, 2017, 524, 362-369.	8.2	39
104	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.	2.1	38
105	Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. Desalination, 2017, 411, 19-27.	8.2	37
106	Electrochemical degradation of reverse osmosis concentrate (ROC) using the electrodeposited Ti/TiO ₂ -NTs/PbO ₂ electrode. Separation and Purification Technology, 2021, 258, 118056.	7.9	37
107	Efficient visible light-driven in situ photocatalytic destruction of harmful alga by worm-like N,P co-doped TiO ₂ /expanded graphite carbon layer (NPT-ECC) floating composites. Catalysis Science and Technology, 2017, 7, 2335-2346.	4.1	36
108	The pH effects on H ₂ evolution kinetics for visible light water splitting over the Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ photocatalyst. International Journal of Hydrogen Energy, 2013, 38, 11727-11736.	7.1	35

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109	Critical evaluation and modeling of algal harvesting using dissolved air flotation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2477-2485.	3.3	35
110	Taking advantage of rotifer sensitivity to rotenone to prevent pond crashes for algal-biofuel production. <i>Algal Research</i> , 2015, 10, 100-103.	4.6	35
111	Energy, water and nutrient impacts of California-grown vegetables compared to controlled environmental agriculture systems in Atlanta, GA. <i>Resources, Conservation and Recycling</i> , 2017, 122, 319-325.	10.8	35
112	Impacts of organic matter on the toxicity of biosynthesized silver nanoparticles to green microalgae <i>Chlorella vulgaris</i> . <i>Environmental Research</i> , 2020, 185, 109433.	7.5	34
113	S/O-Functionalities on Modified Carbon Materials Governing Adsorption of Water Vapor. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23057-23065.	3.1	32
114	Effect of inorganic filler size on electrochemical performance of nanocomposite cation exchange membranes for salinity gradient power generation. <i>Journal of Membrane Science</i> , 2015, 482, 33-41.	8.2	32
115	Enhanced Ionic Conductivity and Power Generation Using Ion-Exchange Resin Beads in a Reverse-Electrodialysis Stack. <i>Environmental Science & Technology</i> , 2015, 49, 14717-14724.	10.0	32
116	Forming mechanism study of unique pillar-like and defect-free PVDF ultrafiltration membranes with high flux. <i>Journal of Membrane Science</i> , 2015, 487, 1-11.	8.2	32
117	The Selective Use of Hypochlorite to Prevent Pond Crashes for Algae's Biofuel Production. <i>Water Environment Research</i> , 2016, 88, 70-78.	2.7	32
118	The preparation and performance of lignin-based activated carbon fiber adsorbents for treating gaseous streams. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 328-337.	4.4	32
119	Green synthesis of ZnO hierarchical microstructures by <i>Cordia myxa</i> and their antibacterial activity. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 1364-1371.	3.8	32
120	Achieving Ferromagnetism in Single-Crystalline ZnS Wurtzite Nanowires via Chromium Doping. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12099-12103.	3.1	31
121	Local Structure of Cerium in Aluminophosphate and Silicophosphate Glasses. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2442-2451.	3.8	31
122	Stability of an H ₂ -producing photocatalyst (Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂) in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1286-1296.	7.1	31
123	Mechanism Exploration of Ion Transport in Nanocomposite Cation Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13491-13499.	8.0	31
124	A freestanding graphene oxide membrane for efficiently harvesting salinity gradient power. <i>Carbon</i> , 2018, 138, 410-418.	10.3	31
125	Anion-exchange membrane with ion-nanochannels to beat trade-off between membrane conductivity and acid blocking performance for waste acid reclamation. <i>Journal of Membrane Science</i> , 2019, 573, 657-667.	8.2	31
126	Imaging and Quantifying the Morphology and Nanoelectrical Properties of Quantum Dot Nanoparticles Interacting with DNA. <i>Journal of Physical Chemistry C</i> , 2011, 115, 599-606.	3.1	30

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127	The inhibition effect of recycled <i>Scenedesmus acuminatus</i> culture media: Influence of growth phase, inhibitor identification and removal. <i>Algal Research</i> , 2019, 42, 101612.	4.6	30
128	Coexposed nanoparticulate Ag alleviates the acute toxicity induced by ionic Ag ⁺ in vivo. <i>Science of the Total Environment</i> , 2020, 723, 138050.	8.0	30
129	Human intestinal epithelial cells exhibit a cellular response indicating a potential toxicity upon exposure to hematite nanoparticles. <i>Cell Biology and Toxicology</i> , 2012, 28, 343-368.	5.3	29
130	Gigaton Problems Need Gigaton Solutions. <i>Environmental Science & Technology</i> , 2010, 44, 4037-4041.	10.0	28
131	A Novel Hybrid Poly (vinyl alcohol) (PVA)/Poly (2,6-dimethyl-1,4-phenylene oxide) (PPO) Membranes for Reverse Electrodialysis Power System. <i>Electrochimica Acta</i> , 2017, 239, 65-73.	5.2	28
132	Incorporation of Cellulose Nanocrystals into Graphene Oxide Membranes for Efficient Antibiotic Removal at High Nutrient Recovery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14102-14111.	8.0	28
133	Use of Copper to Selectively Inhibit <i>Brachionus calyciflorus</i> (Predator) Growth in <i>Chlorella kessleri</i> (Prey) Mass Cultures for Algae Biodiesel Production. <i>International Journal of Molecular Sciences</i> , 2015, 16, 20674-20684.	4.1	27
134	Effects of stable aqueous fullerene nanocrystal (nC60) on <i>Daphnia magna</i> : Evaluation of hop frequency and accumulations under different conditions. <i>Journal of Environmental Sciences</i> , 2011, 23, 322-329.	6.1	26
135	Effects of aqueous stable fullerene nanocrystal (nC60) on copper (trace necessary nutrient metal): Enhanced toxicity and accumulation of copper in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2013, 92, 1245-1252.	8.2	26
136	Alpha-Fe ₂ O ₃ elicits diameter-dependent effects during exposure to an in vitro model of the human placenta. <i>Cell Biology and Toxicology</i> , 2014, 30, 31-53.	5.3	26
137	Bioaccumulation of decabromodiphenyl ether (BDE209) in earthworms in the presence of lead (Pb). <i>Chemosphere</i> , 2014, 106, 57-64.	8.2	26
138	Impact of sodium hypochlorite (NaClO) on polysulfone (PSF) ultrafiltration membranes: The evolution of membrane performance and fouling behavior. <i>Separation and Purification Technology</i> , 2017, 175, 238-247.	7.9	24
139	Evaluation of DLVO interaction between a sphere and a cylinder. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 415, 218-229.	4.7	23
140	Speciation analysis of silver sulfide nanoparticles in environmental waters by magnetic solid-phase extraction coupled with ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2285-2292.	3.0	23
141	Thin-film composite forward osmosis membranes with substrate layer composed of polysulfone blended with PEG or polysulfone grafted PEG methyl ether methacrylate. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 562-574.	4.4	23
142	Fluoride remediation from on-site wastewater using optimized bauxite nanocomposite (Bx-Ce-La@500): Synthesis maximization, and mechanism of F ⁻ removal. <i>Journal of Hazardous Materials</i> , 2022, 430, 128401.	12.4	23
143	Photocatalytic hydrogen production under visible-light irradiation on (CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ synthesized by precipitation and calcination. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1926-1935.	14.0	22
144	Identification of auto-inhibitors in the reused culture media of the Chlorophyta <i>Scenedesmus acuminatus</i> . <i>Algal Research</i> , 2019, 44, 101665.	4.6	22

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