

# Yongsheng Chen

## List of Publications by Year in descending order

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204  
papers

19,806  
citations

16451

64  
h-index

15266

126  
g-index

206  
all docs

206  
docs citations

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times ranked

23730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-assisted continuous flow phytosynthesis of silver nanoparticle/reduced graphene oxide composites and related visible light catalytic performance. <i>Journal of Environmental Sciences</i> , 2022, 115, 286-293.	6.1	6
2	Electrochemical degradation performance and mechanism of dibutyl phthalate with hydrophobic PbO <sub>2</sub> electrode. <i>Chemosphere</i> , 2022, 288, 132638.	8.2	16
3	Dynamically Controlled Environment Agriculture: Integrating Machine Learning and Mechanistic and Physiological Models for Sustainable Food Cultivation. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 3-19.	7.6	21
4	Total Organic Carbon as a Quantitative Index of Micro- and Nano-Plastic Pollution. <i>Analytical Chemistry</i> , 2022, 94, 740-747.	6.5	14
5	Enlarging Applicability Domain of Quantitative Structure–Activity Relationship Models through Uncertainty-Based Active Learning. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1211-1220.	7.6	10
6	Boosting photocatalytic reduction of nitrate to ammonia enabled by perovskite/biochar nanocomposites with oxygen defects and O-containing functional groups. <i>Chemosphere</i> , 2022, 294, 133763.	8.2	20
7	Biowaste-Derived, Hyperbranched Dendritic EDTA Analogue as an Anionic Biochelator with Superior Metal Affinity. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2010-2021.	6.7	2
8	Fluoride remediation from on-site wastewater using optimized bauxite nanocomposite (Bx-Ce-La@500): Synthesis maximization, and mechanism of F <sup>-</sup> removal. <i>Journal of Hazardous Materials</i> , 2022, 430, 128401.	12.4	23
9	MOF-Derived Nanoporous Carbon Incorporated in the Cation Exchange Membrane for Gradient Power Generation. <i>Membranes</i> , 2022, 12, 322.	3.0	5
10	Probing the Phytosynthesis Mechanism of Gold and Silver Nanoparticles by Sequential Separation of Plant Extract and Molecular Characterization with Ultra-High-Resolution Mass Spectrometry. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3829-3838.	6.7	7
11	Revolutionizing Membrane Design Using Machine Learning-Bayesian Optimization. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2572-2581.	10.0	63
12	Capillary-Assisted Fabrication of Thin-Film Nanocomposite Membranes for Improved Solute–Solute Separation. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5849-5859.	10.0	20
13	Planning decentralized urban renewable energy systems using algal cultivation for closed-loop and resilient communities. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2022, 49, 1464-1488.	2.0	3
14	MXene Composite Membranes with Enhanced Ion Transport and Regulated Ion Selectivity. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8964-8974.	10.0	18
15	Polyvinyl alcohol-based monovalent anion selective membranes with excellent permselectivity in electrodialysis. <i>Journal of Membrane Science</i> , 2021, 620, 118889.	8.2	15
16	Transformation of acetaminophen in solution containing both peroxymonosulfate and chlorine: Performance, mechanism, and disinfection by-product formation. <i>Water Research</i> , 2021, 189, 116605.	11.3	50
17	Facile synthesis of birnessite-type K <sub>2</sub> Mn <sub>4</sub> O <sub>8</sub> and cryptomelane-type K <sub>2-x</sub> Mn <sub>8</sub> O <sub>16</sub> catalysts and their excellent catalytic performance for soot combustion with high resistance to H <sub>2</sub> O and SO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119779.	20.2	50
18	Electrochemical degradation of reverse osmosis concentrate (ROC) using the electrodeposited Ti/TiO <sub>2</sub> -NTs/PbO <sub>2</sub> electrode. <i>Separation and Purification Technology</i> , 2021, 258, 118056.	7.9	37

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19	Differentiating Solutes with Precise Nanofiltration for Next Generation Environmental Separations: A Review. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1359-1376.	10.0	156
20	Disproportionate presence of adenosine in mitochondrial and chloroplast DNA of <i>Chlamydomonas reinhardtii</i> . <i>IScience</i> , 2021, 24, 102005.	4.1	5
21	Fit-for-Purpose Design of Nanofiltration Membranes for Simultaneous Nutrient Recovery and Micropollutant Removal. <i>Environmental Science &amp; Technology</i> , 2021, 55, 3352-3361.	10.0	59
22	Robust cellulose-based composite adsorption membrane for heavy metal removal. <i>Journal of Hazardous Materials</i> , 2021, 406, 124746.	12.4	70
23	Tannic acid-metal complex modified MXene membrane for contaminants removal from water. <i>Journal of Membrane Science</i> , 2021, 622, 119042.	8.2	56
24	Incorporation of Cellulose Nanocrystals into Graphene Oxide Membranes for Efficient Antibiotic Removal at High Nutrient Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14102-14111.	8.0	28
25	Forward Solute Transport in Forward Osmosis Using a Freestanding Graphene Oxide Membrane. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6290-6298.	10.0	11
26	Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. <i>ACS Nano</i> , 2021, 15, 5838-5860.	14.6	97
27	Hierarchical Porous K-OMS-2/3DOM-m Ti <sub>0.7</sub> Si <sub>0.3</sub> O <sub>2</sub> Catalysts for Soot Combustion: Easy Preparation, High Catalytic Activity, and Good Resistance to H <sub>2</sub> O and SO <sub>2</sub> . <i>ACS Catalysis</i> , 2021, 11, 5554-5571.	11.2	44
28	U.S.â€China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9622-9626.	10.0	10
29	Influence of the Exclusion-Enrichment Effect on Ion Transport in Two-Dimensional Molybdenum Disulfide Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 26904-26914.	8.0	7
30	Na-Doped Graphitic Carbon Nitride for Removal of Aqueous Contaminants via Adsorption and Photodegradation. <i>ACS Applied Nano Materials</i> , 2021, 4, 7746-7757.	5.0	15
31	Green synthesized nanosilver-biochar photocatalyst for persulfate activation under visible-light illumination. <i>Chemosphere</i> , 2021, 284, 131237.	8.2	18
32	The trade-off between membrane permselectivity and conductivity: A percolation simulation of mass transport. <i>Journal of Membrane Science</i> , 2020, 597, 117751.	8.2	15
33	Chemical cleaning of algae-fouled ultrafiltration (UF) membrane by sodium hypochlorite (NaClO): Characterization of membrane and formation of halogenated by-products. <i>Journal of Membrane Science</i> , 2020, 598, 117662.	8.2	49
34	Thermolytic osmotic heat engine for low-grade heat harvesting: Thermodynamic investigation and potential application exploration. <i>Applied Energy</i> , 2020, 259, 114192.	10.1	11
35	Lignin-Based Nanocapsules with Tunable Size for Cu(II) Ion Absorption. <i>ACS Applied Nano Materials</i> , 2020, 3, 10835-10843.	5.0	13
36	Toxicity of biosynthesized silver nanoparticles to aquatic organisms of different trophic levels. <i>Chemosphere</i> , 2020, 258, 127346.	8.2	51

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37	Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. Journal of Hazardous Materials, 2020, 394, 122555.	12.4	51
38	Impacts of organic matter on the toxicity of biosynthesized silver nanoparticles to green microalgae <i>Chlorella vulgaris</i> . Environmental Research, 2020, 185, 109433.	7.5	34
39	Coexposed nanoparticulate Ag alleviates the acute toxicity induced by ionic Ag <sup>+</sup> in vivo. Science of the Total Environment, 2020, 723, 138050.	8.0	30
40	Prevention of algaculture contamination using pesticides for biofuel production. Algal Research, 2020, 50, 101975.	4.6	3
41	Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/GO Hybrid Membranes for Highly Efficient Osmotic Power Generation. Environmental Science & Technology, 2020, 54, 2931-2940.	10.0	41
42	Thermodynamic analysis of a solar thermal facilitated membrane seawater desalination process. Journal of Cleaner Production, 2020, 256, 120398.	9.3	20
43	Microbial community analysis and correlation with 2-methylisoborneol occurrence in landscape lakes of Beijing. Environmental Research, 2020, 183, 109217.	7.5	17
44	Cellulose nanocrystal/silver (CNC/Ag) thin-film nanocomposite nanofiltration membranes with multifunctional properties. Environmental Science: Nano, 2020, 7, 803-816.	4.3	49
45	Study on the Transport Mechanism of a Freestanding Graphene Oxide Membrane for Forward Osmosis. Environmental Science & Technology, 2020, 54, 5802-5812.	10.0	19
46	Investigation of characteristic and performance of polyvinyl chloride ultrafiltration membranes modified with silica- $\alpha$ -oriented multi walled carbon nanotubes. Journal of Applied Polymer Science, 2020, 137, 49397.	2.6	7
47	The inhibition effect of recycled <i>Scenedesmus acuminatus</i> culture media: Influence of growth phase, inhibitor identification and removal. Algal Research, 2019, 42, 101612.	4.6	30
48	Nanocomposite and nanostructured ion-exchange membrane in salinity gradient power generation using reverse electrodialysis. , 2019, , 295-316.		5
49	Green synthesis of ZnO hierarchical microstructures by <i>Cordia myxa</i> and their antibacterial activity. Saudi Journal of Biological Sciences, 2019, 26, 1364-1371.	3.8	32
50	Polymeric Nanocomposites of Iron- $\alpha$ -Oxide Nanoparticles (IONPs) Synthesized Using <i>Terminalia chebula</i> Leaf Extract for Enhanced Adsorption of Arsenic(V) from Water. Colloids and Interfaces, 2019, 3, 17.	2.1	38
51	Efficient membrane microalgal harvesting: Pilot-scale performance and techno-economic analysis. Journal of Cleaner Production, 2019, 218, 83-95.	9.3	48
52	Organic frameworks induce synthesis and growth mechanism of well-ordered dumbbell-shaped ZnO particles. Materials Chemistry and Physics, 2019, 232, 129-136.	4.0	10
53	Performing homogeneous catalytic ozonation using heterogeneous Mn <sup>2+</sup> -bonded oxidized carbon nanotubes by self-driven pH variation induced reversible desorption and adsorption of Mn <sup>2+</sup> . Environmental Science: Nano, 2019, 6, 1932-1940.	4.3	12
54	Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous Mn <sub>x</sub> Ce <sub>1-x</sub> O <sub>3</sub> /SiO <sub>2</sub> catalysts. Applied Catalysis B: Environmental, 2019, 254, 246-259.	20.2	73

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55	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.3	65
56	Effect of centrifugation on water recycling and algal growth to enable algae biodiesel production. <i>Water Environment Research</i> , 2019, , .	2.7	0
57	Copper oxide nanoparticles promote the evolution of multicellularity in yeast. <i>Nanotoxicology</i> , 2019, 13, 597-605.	3.0	3
58	Improving antifouling performance for the harvesting of <i>Scenedesmus acuminatus</i> using Fe <sub>2</sub> O <sub>3</sub> nanoparticles incorporated PVC nanocomposite membranes. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47685.	2.6	18
59	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
60	Harvesting of <i>Scenedesmus acuminatus</i> using ultrafiltration membranes operated in alternative feed directions. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 103-109.	2.2	11
61	Influence of growth phase on the harvesting of <i>Scenedesmus acuminatus</i> using ultrafiltration. <i>Science of the Total Environment</i> , 2019, 660, 25-31.	8.0	15
62	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
63	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
64	Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science &amp; Technology</i> , 2019, 53, 868-877.	10.0	83
65	Pressure Retarded Osmosis and Reverse Electrodialysis as Power Generation Membrane Systems. , 2019, , 133-152.		5
66	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
67	Low-Grade Waste Heat Recovery via an Osmotic Heat Engine by Using a Freestanding Graphene Oxide Membrane. <i>ACS Omega</i> , 2018, 3, 15501-15509.	3.5	12
68	Monovalent-anion selective and antifouling polyelectrolytes multilayer anion exchange membrane for reverse electrodialysis. <i>Journal of Membrane Science</i> , 2018, 567, 68-75.	8.2	61
69	A freestanding graphene oxide membrane for efficiently harvesting salinity gradient power. <i>Carbon</i> , 2018, 138, 410-418.	10.3	31
70	Environmental influence on rotenone performance as an algal crop protective agent to prevent pond crashes for biofuel production. <i>Algal Research</i> , 2018, 33, 277-283.	4.6	9
71	Fe <sub>2</sub> O <sub>3</sub> nanocomposite PVC membrane with enhanced properties and separation performance. <i>Journal of Membrane Science</i> , 2017, 529, 170-184.	8.2	90
72	Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. <i>Desalination</i> , 2017, 411, 19-27.	8.2	37

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73	Efficient visible light-driven in situ photocatalytic destruction of harmful alga by worm-like N,P co-doped TiO <sub>2</sub> /expanded graphite carbon layer (NPT-EGC) floating composites. <i>Catalysis Science and Technology</i> , 2017, 7, 2335-2346.	4.1	36
74	An integrative modeling and experimental study on the ionic resistance of ion-exchange membranes. <i>Journal of Membrane Science</i> , 2017, 524, 362-369.	8.2	39
75	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
76	CeO <sub>2</sub> nanoparticles alter the outcome of species interactions. <i>Nanotoxicology</i> , 2017, 11, 625-636.	3.0	9
77	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
78	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
79	Mechanism Exploration of Ion Transport in Nanocomposite Cation Exchange Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13491-13499.	8.0	31
80	Electrochemical impedance spectroscopy of enhanced layered nanocomposite ion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 541, 611-620.	8.2	10
81	A comparison study: The different impacts of sodium hypochlorite on PVDF and PSF ultrafiltration (UF) membranes. <i>Water Research</i> , 2017, 109, 227-236.	11.3	51
82	Electrochemical oxidation of ofloxacin using a TiO <sub>2</sub> -based SnO <sub>2</sub> -Sb/polytetrafluoroethylene resin-PbO <sub>2</sub> electrode: Reaction kinetics and mass transfer impact. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 515-525.	20.2	212
83	Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. <i>Desalination</i> , 2017, 406, 16-24.	8.2	44
84	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
85	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , 2017, 7, 21.	4.1	112
86	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
87	Green Synthesis of Iron Nanoparticles and Their Environmental Applications and Implications. <i>Nanomaterials</i> , 2016, 6, 209.	4.1	398
88	Hemocompatibility and ultrafiltration performance of PAN membranes surface-modified by hyperbranched polyesters. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1569-1576.	3.2	9
89	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
90	The prevention of saltwater algal pond contamination using the electron transport chain disruptor, rotenone. <i>Algal Research</i> , 2016, 18, 209-212.	4.6	15

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91	Significant Enrichment of Engineered Nanoparticles in Water Surface Microlayer. <i>Environmental Science and Technology Letters</i> , 2016, 3, 381-385.	8.7	15
92	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
93	The Selective Use of Hypochlorite to Prevent Pond Crashes for Algae-Biofuel Production. <i>Water Environment Research</i> , 2016, 88, 70-78.	2.7	32
94	Fouling resistant nanocomposite cation exchange membrane with enhanced power generation for reverse electrodialysis. <i>Journal of Membrane Science</i> , 2016, 516, 162-171.	8.2	62
95	Application of silica-based monolith as solid-phase extraction sorbent for extracting toxaphene congeners in soil. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 87-95.	2.4	5
96	Fate of engineered cerium oxide nanoparticles in an aquatic environment and their toxicity toward 14 ciliated protist species. <i>Environmental Pollution</i> , 2016, 212, 584-591.	7.5	18
97	The Influence of Reaction Temperature on the Formation and Photocatalytic Hydrogen Generation of (001) Faceted $\text{TiO}_2$ Nanosheets. <i>ChemNanoMat</i> , 2015, 1, 270-275.	2.8	13
98	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
99	The Use of the Schizonticidal Agent Quinine Sulfate to Prevent Pond Crashes for Algal-Biofuel Production. <i>International Journal of Molecular Sciences</i> , 2015, 16, 27450-27456.	4.1	15
100	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
101	Enhanced Ionic Conductivity and Power Generation Using Ion-Exchange Resin Beads in a Reverse-Electrodialysis Stack. <i>Environmental Science &amp; Technology</i> , 2015, 49, 14717-14724.	10.0	32
102	Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. <i>RSC Advances</i> , 2015, 5, 17897-17904.	3.6	67
103	Air-promoted adsorptive desulfurization of diesel fuel over $\text{TiO}_2$ mixed metal oxides. <i>AIChE Journal</i> , 2015, 61, 631-639.	3.6	53
104	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
105	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
106	Potential ion exchange membranes and system performance in reverse electrodialysis for power generation: A review. <i>Journal of Membrane Science</i> , 2015, 486, 71-88.	8.2	263
107	<i>Vernalophrys algivore</i> gen. nov., sp. nov. (Rhizaria: Cercozoa: Vampyrellida), a New Algal Predator Isolated from Outdoor Mass Culture of <i>Scenedesmus dimorphus</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 3900-3913.	3.1	39
108	Effects of aqueous stable fullerene nanocrystal (nC 60) on <i>Scenedesmus obliquus</i> : Evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. <i>Chemosphere</i> , 2015, 122, 162-167.	8.2	41



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109	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
110	Evaluation of electrochemical properties and reverse electrodialysis performance for porous cation exchange membranes with sulfate-functionalized iron oxide. <i>Journal of Membrane Science</i> , 2015, 473, 210-217.	8.2	57
111	Effect of Centrifugation on Water Recycling and Algal Growth to Enable Algae Biodiesel Production. <i>Water Environment Research</i> , 2014, 86, 2325-2329.	2.7	3
112	Efficient photocatalytic H <sub>2</sub> production using visible-light irradiation and (CuAg) <sub>2</sub> In <sub>2</sub> Zn <sub>2</sub> S <sub>2</sub> photocatalysts with tunable band gaps. <i>International Journal of Energy Research</i> , 2014, 38, 1513-1521.	4.8	14
113	Atomic Force Microscopy Study of the Interaction of DNA and Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2014, 811, 93-109.	1.6	16
114	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> under visible light irradiation. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 033131.	2.0	14
115	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
116	Alpha-Fe <sub>2</sub> O <sub>3</sub> 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
117	Bioaccumulation of decabromodiphenyl ether (BDE209) in earthworms in the presence of lead (Pb). <i>Chemosphere</i> , 2014, 106, 57-64.	8.2	26
118	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. <i>Advanced Functional Materials</i> , 2014, 24, 1243-1250.	14.9	904
119	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
120	Examination of Nanoparticle-DNA Binding Characteristics Using Single-Molecule Imaging Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13876-13882.	3.1	6
121	Critical evaluation and modeling of algal harvesting using dissolved air flotation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2477-2485.	3.3	35
122	Phytotoxicity, accumulation and transport of silver nanoparticles by <i>Arabidopsis thaliana</i> . <i>Nanotoxicology</i> , 2013, 7, 323-337.	3.0	261
123	Experimental determination of conduction and valence bands of semiconductor nanoparticles using Kelvin probe force microscopy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	17
124	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
125	Characterization of dissolved organic matters responsible for ultrafiltration membrane fouling in algal harvesting. <i>Algal Research</i> , 2013, 2, 223-229.	4.6	64
126	Surface-Coating-Dependent Dissolution, Aggregation, and Reactive Oxygen Species (ROS) Generation of Silver Nanoparticles under Different Irradiation Conditions. <i>Environmental Science &amp; Technology</i> , 2013, 47, 130904083900006.	10.0	78



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127	Nanoparticles Inhibit DNA Replication by Binding to DNA: Modeling and Experimental Validation. ACS Nano, 2013, 7, 9664-9674.	14.6	93
128	S/O-Functionalities on Modified Carbon Materials Governing Adsorption of Water Vapor. Journal of Physical Chemistry C, 2013, 117, 23057-23065.	3.1	32
129	Ultra-Deep Adsorptive Desulfurization of Light-Irradiated Diesel Fuel over Supported TiO <sub>2</sub> –CeO <sub>2</sub> Adsorbents. Industrial & Engineering Chemistry Research, 2013, 52, 15746-15755.	3.7	51
130	Stability of an H <sub>2</sub> -producing photocatalyst (Ru/(CuAg)0.15In0.3Zn1.4S <sub>2</sub> ) in aqueous solution under visible light irradiation. International Journal of Hydrogen Energy, 2013, 38, 1286-1296.	7.1	31
131	Quantum dot binding to DNA: Single-molecule imaging with atomic force microscopy. Biotechnology Journal, 2013, 8, 110-116.	3.5	17
132	Photocatalytic hydrogen production under visible-light irradiation on (CuAg)0.15In0.3Zn1.4S <sub>2</sub> synthesized by precipitation and calcination. Chinese Journal of Catalysis, 2013, 34, 1926-1935.	14.0	22
133	The pH effects on H <sub>2</sub> evolution kinetics for visible light water splitting over the Ru/(CuAg)0.15In0.3Zn1.4S <sub>2</sub> photocatalyst. International Journal of Hydrogen Energy, 2013, 38, 11727-11736.	7.1	35
134	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.	10.1	80
135	High-Concentration Aqueous Dispersions of MoS <sub>2</sub> . Advanced Functional Materials, 2013, 23, 3577-3583.	14.9	271
136	Photogeneration of Reactive Oxygen Species on Uncoated Silver, Gold, Nickel, and Silicon Nanoparticles and Their Antibacterial Effects. Langmuir, 2013, 29, 4647-4651.	3.5	244
137	Trans-generational impact of cerium oxide nanoparticles on tomato plants. Metallomics, 2013, 5, 753.	2.4	126
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