

Yongsheng Chen

List of Publications by Year in descending order

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Version: 2024-02-01

204
papers

19,806
citations

16411

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15218

126
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206
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docs citations

206
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. | 3.2 | 6 |
| 2 | Electrochemical degradation performance and mechanism of dibutyl phthalate with hydrophobic PbO ₂ electrode. <i>Chemosphere</i> , 2022, 288, 132638. | 4.2 | 16 |
| 3 | Dynamically Controlled Environment Agriculture: Integrating Machine Learning and Mechanistic and Physiological Models for Sustainable Food Cultivation. <i>ACS ES&T Engineering</i> , 2022, 2, 3-19. | 3.7 | 21 |
| 4 | Total Organic Carbon as a Quantitative Index of Micro- and Nano-Plastic Pollution. <i>Analytical Chemistry</i> , 2022, 94, 740-747. | 3.2 | 14 |
| 5 | Enlarging Applicability Domain of Quantitative Structure–Activity Relationship Models through Uncertainty-Based Active Learning. <i>ACS ES&T Engineering</i> , 2022, 2, 1211-1220. | 3.7 | 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. | 4.2 | 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. | 3.2 | 2 |
| 8 | 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. | 6.5 | 23 |
| 9 | MOF-Derived Nanoporous Carbon Incorporated in the Cation Exchange Membrane for Gradient Power Generation. <i>Membranes</i> , 2022, 12, 322. | 1.4 | 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. | 3.2 | 7 |
| 11 | Revolutionizing Membrane Design Using Machine Learning-Bayesian Optimization. <i>Environmental Science & Technology</i> , 2022, 56, 2572-2581. | 4.6 | 63 |
| 12 | Capillary-Assisted Fabrication of Thin-Film Nanocomposite Membranes for Improved Solute–Solute Separation. <i>Environmental Science & Technology</i> , 2022, 56, 5849-5859. | 4.6 | 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. | 1.0 | 3 |
| 14 | MXene Composite Membranes with Enhanced Ion Transport and Regulated Ion Selectivity. <i>Environmental Science & Technology</i> , 2022, 56, 8964-8974. | 4.6 | 18 |
| 15 | Polyvinyl alcohol-based monovalent anion selective membranes with excellent permselectivity in electrodialysis. <i>Journal of Membrane Science</i> , 2021, 620, 118889. | 4.1 | 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. | 5.3 | 50 |
| 17 | Facile synthesis of birnessite-type K ₂ Mn ₄ O ₈ and cryptomelane-type K _{2-x} Mn ₈ O ₁₆ catalysts and their excellent catalytic performance for soot combustion with high resistance to H ₂ O and SO ₂ . <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119779. | 10.8 | 50 |
| 18 | Electrochemical degradation of reverse osmosis concentrate (ROC) using the electrodeposited Ti/TiO ₂ -NTs/PbO ₂ electrode. <i>Separation and Purification Technology</i> , 2021, 258, 118056. | 3.9 | 37 |

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|----|---|-----|-----------|
| 19 | Differentiating Solutes with Precise Nanofiltration for Next Generation Environmental Separations: A Review. <i>Environmental Science & Technology</i> , 2021, 55, 1359-1376. | 4.6 | 156 |
| 20 | Disproportionate presence of adenosine in mitochondrial and chloroplast DNA of <i>Chlamydomonas reinhardtii</i> . <i>IScience</i> , 2021, 24, 102005. | 1.9 | 5 |
| 21 | Fit-for-Purpose Design of Nanofiltration Membranes for Simultaneous Nutrient Recovery and Micropollutant Removal. <i>Environmental Science & Technology</i> , 2021, 55, 3352-3361. | 4.6 | 59 |
| 22 | Robust cellulose-based composite adsorption membrane for heavy metal removal. <i>Journal of Hazardous Materials</i> , 2021, 406, 124746. | 6.5 | 70 |
| 23 | Tannic acid-metal complex modified MXene membrane for contaminants removal from water. <i>Journal of Membrane Science</i> , 2021, 622, 119042. | 4.1 | 56 |
| 24 | 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. | 4.0 | 28 |
| 25 | Forward Solute Transport in Forward Osmosis Using a Freestanding Graphene Oxide Membrane. <i>Environmental Science & Technology</i> , 2021, 55, 6290-6298. | 4.6 | 11 |
| 26 | Nanofluidic Membranes to Address the Challenges of Salinity Gradient Power Harvesting. <i>ACS Nano</i> , 2021, 15, 5838-5860. | 7.3 | 97 |
| 27 | 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 . <i>ACS Catalysis</i> , 2021, 11, 5554-5571. | 5.5 | 44 |
| 28 | U.S.'s China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science & Technology</i> , 2021, 55, 9622-9626. | 4.6 | 10 |
| 29 | Influence of the Exclusion-Enrichment Effect on Ion Transport in Two-Dimensional Molybdenum Disulfide Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26904-26914. | 4.0 | 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. | 2.4 | 15 |
| 31 | Green synthesized nanosilver-biochar photocatalyst for persulfate activation under visible-light illumination. <i>Chemosphere</i> , 2021, 284, 131237. | 4.2 | 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. | 4.1 | 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. | 4.1 | 49 |
| 34 | Thermolytic osmotic heat engine for low-grade heat harvesting: Thermodynamic investigation and potential application exploration. <i>Applied Energy</i> , 2020, 259, 114192. | 5.1 | 11 |
| 35 | Lignin-Based Nanocapsules with Tunable Size for Cu(II) Ion Absorption. <i>ACS Applied Nano Materials</i> , 2020, 3, 10835-10843. | 2.4 | 13 |
| 36 | Toxicity of biosynthesized silver nanoparticles to aquatic organisms of different trophic levels. <i>Chemosphere</i> , 2020, 258, 127346. | 4.2 | 51 |

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|----|---|------|-----------|
| 37 | Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. <i>Journal of Hazardous Materials</i> , 2020, 394, 122555. | 6.5 | 51 |
| 38 | 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. | 3.7 | 34 |
| 39 | Coexposed nanoparticulate Ag alleviates the acute toxicity induced by ionic Ag ⁺ in vivo. <i>Science of the Total Environment</i> , 2020, 723, 138050. | 3.9 | 30 |
| 40 | Prevention of algaculture contamination using pesticides for biofuel production. <i>Algal Research</i> , 2020, 50, 101975. | 2.4 | 3 |
| 41 | Two-Dimensional Ti ₃ C ₂ T _x MXene/GO Hybrid Membranes for Highly Efficient Osmotic Power Generation. <i>Environmental Science & Technology</i> , 2020, 54, 2931-2940. | 4.6 | 41 |
| 42 | Thermodynamic analysis of a solar thermal facilitated membrane seawater desalination process. <i>Journal of Cleaner Production</i> , 2020, 256, 120398. | 4.6 | 20 |
| 43 | Microbial community analysis and correlation with 2-methylisoborneol occurrence in landscape lakes of Beijing. <i>Environmental Research</i> , 2020, 183, 109217. | 3.7 | 17 |
| 44 | Cellulose nanocrystal/silver (CNC/Ag) thin-film nanocomposite nanofiltration membranes with multifunctional properties. <i>Environmental Science: Nano</i> , 2020, 7, 803-816. | 2.2 | 49 |
| 45 | Study on the Transport Mechanism of a Freestanding Graphene Oxide Membrane for Forward Osmosis. <i>Environmental Science & Technology</i> , 2020, 54, 5802-5812. | 4.6 | 19 |
| 46 | Investigation of characteristic and performance of polyvinyl chloride ultrafiltration membranes modified with silica-oriented multi walled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49397. | 1.3 | 7 |
| 47 | 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. | 2.4 | 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. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 1364-1371. | 1.8 | 32 |
| 50 | Polymeric Nanocomposites of Iron Oxide Nanoparticles (IONPs) Synthesized Using <i>Terminalia chebula</i> Leaf Extract for Enhanced Adsorption of Arsenic(V) from Water. <i>Colloids and Interfaces</i> , 2019, 3, 17. | 0.9 | 38 |
| 51 | Efficient membrane microalgal harvesting: Pilot-scale performance and techno-economic analysis. <i>Journal of Cleaner Production</i> , 2019, 218, 83-95. | 4.6 | 48 |
| 52 | Organic frameworks induce synthesis and growth mechanism of well-ordered dumbbell-shaped ZnO particles. <i>Materials Chemistry and Physics</i> , 2019, 232, 129-136. | 2.0 | 10 |
| 53 | Performing homogeneous catalytic ozonation using heterogeneous Mn ²⁺ -bonded oxidized carbon nanotubes by self-driven pH variation induced reversible desorption and adsorption of Mn ²⁺ . <i>Environmental Science: Nano</i> , 2019, 6, 1932-1940. | 2.2 | 12 |
| 54 | Enhanced activity and sulfur resistance for soot combustion on three-dimensionally ordered macroporous-mesoporous Mn _x Ce _{1-x} O ₃ /SiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 246-259. | 10.8 | 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. | 2.2 | 65 |
| 56 | Effect of centrifugation on water recycling and algal growth to enable algae biodiesel production. <i>Water Environment Research</i> , 2019, , . | 1.3 | 0 |
| 57 | Copper oxide nanoparticles promote the evolution of multicellularity in yeast. <i>Nanotoxicology</i> , 2019, 13, 597-605. | 1.6 | 3 |
| 58 | Improving antifouling performance for the harvesting of <i>Scenedesmus acuminatus</i> using Fe ₂ O ₃ nanoparticles incorporated PVC nanocomposite membranes. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47685. | 1.3 | 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. | 4.1 | 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. | 1.1 | 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. | 3.9 | 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. | 2.4 | 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. | 4.1 | 31 |
| 64 | Improving Ion Rejection of Conductive Nanofiltration Membrane through Electrically Enhanced Surface Charge Density. <i>Environmental Science & Technology</i> , 2019, 53, 868-877. | 4.6 | 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. | 4.1 | 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. | 1.6 | 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. | 4.1 | 61 |
| 69 | A freestanding graphene oxide membrane for efficiently harvesting salinity gradient power. <i>Carbon</i> , 2018, 138, 410-418. | 5.4 | 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. | 2.4 | 9 |
| 71 | Fe ₂ O ₃ nanocomposite PVC membrane with enhanced properties and separation performance. <i>Journal of Membrane Science</i> , 2017, 529, 170-184. | 4.1 | 90 |
| 72 | Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. <i>Desalination</i> , 2017, 411, 19-27. | 4.0 | 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 ₂ /expanded graphite carbon layer (NPT-EGC) floating composites. <i>Catalysis Science and Technology</i> , 2017, 7, 2335-2346. | 2.1 | 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. | 4.1 | 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. | 2.3 | 32 |
| 76 | CeO ₂ nanoparticles alter the outcome of species interactions. <i>Nanotoxicology</i> , 2017, 11, 625-636. | 1.6 | 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. | 2.6 | 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. | 5.3 | 35 |
| 79 | Mechanism Exploration of Ion Transport in Nanocomposite Cation Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13491-13499. | 4.0 | 31 |
| 80 | Electrochemical impedance spectroscopy of enhanced layered nanocomposite ion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 541, 611-620. | 4.1 | 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. | 5.3 | 51 |
| 82 | 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. | 10.8 | 212 |
| 83 | Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. <i>Desalination</i> , 2017, 406, 16-24. | 4.0 | 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. | 3.9 | 24 |
| 85 | Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , 2017, 7, 21. | 1.9 | 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. | 1.9 | 128 |
| 87 | Green Synthesis of Iron Nanoparticles and Their Environmental Applications and Implications. <i>Nanomaterials</i> , 2016, 6, 209. | 1.9 | 398 |
| 88 | Hemocompatibility and ultrafiltration performance of PAN membranes surface-modified by hyperbranched polyesters. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1569-1576. | 1.6 | 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. | 1.6 | 23 |
| 90 | The prevention of saltwater algal pond contamination using the electron transport chain disruptor, rotenone. <i>Algal Research</i> , 2016, 18, 209-212. | 2.4 | 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. | 3.9 | 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. | 2.3 | 23 |
| 93 | The Selective Use of Hypochlorite to Prevent Pond Crashes for Algae Biofuel Production. <i>Water Environment Research</i> , 2016, 88, 70-78. | 1.3 | 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. | 4.1 | 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. | 1.1 | 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. | 3.7 | 18 |
| 97 | The Influence of Reaction Temperature on the Formation and Photocatalytic Hydrogen Generation of (001) Faceted TiO ₂ Nanosheets. <i>ChemNanoMat</i> , 2015, 1, 270-275. | 1.5 | 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. | 1.8 | 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. | 1.8 | 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. | 4.1 | 32 |
| 101 | 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. | 4.6 | 32 |
| 102 | Role of pentahedrally coordinated titanium in titanium silicalite-1 in propene epoxidation. <i>RSC Advances</i> , 2015, 5, 17897-17904. | 1.7 | 67 |
| 103 | Air-promoted adsorptive desulfurization of diesel fuel over $Ti-Ce$ mixed metal oxides. <i>AIChE Journal</i> , 2015, 61, 631-639. | 1.8 | 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. | 2.4 | 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. | 4.1 | 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. | 4.1 | 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. | 1.4 | 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. | 4.2 | 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. | 3.7 | 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. | 4.1 | 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. | 1.3 | 3 |
| 112 | Efficient photocatalytic H ₂ production using visible-light irradiation and (CuAg) _x In _{2-x} Zn ₂ (1-x) ₂ S ₂ photocatalysts with tunable band gaps. <i>International Journal of Energy Research</i> , 2014, 38, 1513-1521. | 1.4 | 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. | 0.8 | 16 |
| 114 | Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ under visible light irradiation. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 033131. | 0.8 | 14 |
| 115 | Nanocomposite reverse electrodialysis (RED) ion-exchange membranes for salinity gradient power generation. <i>Journal of Membrane Science</i> , 2014, 460, 139-147. | 4.1 | 117 |
| 116 | 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. | 2.4 | 26 |
| 117 | Bioaccumulation of decabromodiphenyl ether (BDE209) in earthworms in the presence of lead (Pb). <i>Chemosphere</i> , 2014, 106, 57-64. | 4.2 | 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. | 7.8 | 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. | 1.5 | 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. | 1.5 | 6 |
| 121 | Critical evaluation and modeling of algal harvesting using dissolved air flotation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2477-2485. | 1.7 | 35 |
| 122 | Phytotoxicity, accumulation and transport of silver nanoparticles by <i>Arabidopsis thaliana</i> . <i>Nanotoxicology</i> , 2013, 7, 323-337. | 1.6 | 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. | 0.8 | 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. | 4.2 | 26 |
| 125 | Characterization of dissolved organic matters responsible for ultrafiltration membrane fouling in algal harvesting. <i>Algal Research</i> , 2013, 2, 223-229. | 2.4 | 64 |
| 126 | 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. | 4.6 | 78 |

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|-----|---|-----|-----------|
| 127 | Nanoparticles Inhibit DNA Replication by Binding to DNA: Modeling and Experimental Validation. ACS Nano, 2013, 7, 9664-9674. | 7.3 | 93 |
| 128 | S/O-Functionalities on Modified Carbon Materials Governing Adsorption of Water Vapor. Journal of Physical Chemistry C, 2013, 117, 23057-23065. | 1.5 | 32 |
| 129 | Ultra-Deep Adsorptive Desulfurization of Light-Irradiated Diesel Fuel over Supported TiO ₂ –CeO ₂ Adsorbents. Industrial & Engineering Chemistry Research, 2013, 52, 15746-15755. | 1.8 | 51 |
| 130 | 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. International Journal of Hydrogen Energy, 2013, 38, 1286-1296. | 3.8 | 31 |
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