Xiang He

List of Publications by Year in descending order

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200	12,313	24978	27345
papers	citations	57 h-index	106 g-index

205	205	205	17484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exciton Binding Energy of MAPbI₃ Thin Film Elucidated via Analysis and Modeling of Perovskite Absorption and Photoluminescence Properties Using Various Methodologies. Journal of Physical Chemistry C, 2022, 126, 1046-1054.	1.5	18
2	Effect of work-function and morphology of heterostructure components on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1189" altimg="si391.svg"><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> photo-catalytic activity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1199" altimg="si11.svg"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MoS</mml:mtext></mml:mrow><mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math>.	6.6	44
3	Tuning transport in graphene oxide membrane with single-site copper (II) cations. IScience, 2022, 25, 104044.	1.9	3
4	Platycladus orientalis seed extract as a potential triple reuptake MAO inhibitor rescue depression phenotype through restoring monoamine neurotransmitters. Journal of Ethnopharmacology, 2022, 295, 115302.	2.0	1
5	7,8-Dihydroxycoumarin Alleviates Synaptic Loss by Activated PI3K-Akt-CREB-BDNF Signaling in Alzheimerâ€™s Disease Model Mice. Journal of Agricultural and Food Chemistry, 2022, 70, 7130-7138.	2.4	10
6	Breath-, air- and surface-borne SARS-CoV-2 in hospitals. Journal of Aerosol Science, 2021, 152, 105693.	1.8	89
7	Simultaneous removal of VOCs and PM2.5 by metal-organic framework coated electret filter media. Journal of Membrane Science, 2021, 618, 118629.	4.1	22
8	Data-driven parameter optimization for the synthesis of high-quality zeolitic imidazolate frameworks via a microdroplet route. Advanced Powder Technology, 2021, 32, 266-271.	2.0	6
9	Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize (Zea mays L.). Plant Physiology and Biochemistry, 2021, 159, 53-66.	2.8	78
10	Plasmonic Au Nanoparticles Sensitized MoSâ„ for Bifunctional NOâ„ and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197.	2.4	12
11	Using Kriging incorporated with wind direction to investigate ground-level PM2.5 concentration. Science of the Total Environment, 2021, 751, 141813.	3.9	27
12	Mini Review on Gas-Phase Synthesis for Energy Nanomaterials. Energy & Fuels, 2021, 35, 63-85.	2.5	23
13	Coronavirus Disease 2019 Patients in Earlier Stages Exhaled Millions of Severe Acute Respiratory Syndrome Coronavirus 2 Per Hour. Clinical Infectious Diseases, 2021, 72, e652-e654.	2.9	211
14	Characterization of flame synthesized Pdâ€“TiO₂ nanocomposite catalysts for oxygen removal from CO₂-rich streams in oxy combustion exhausts. Catalysis Science and Technology, 2021, 11, 4763-4775.	2.1	2
15	Measurement of sub-3â€‰nm flame-generated particles using butanol CPCs in boosted conditions. Aerosol Science and Technology, 2021, 55, 785-794.	1.5	3
16	Size-Dependent Filtration Efficiency of Alternative Facemask Filter Materials. Materials, 2021, 14, 1868.	1.3	8
17	Aerosol Dynamics Model for Estimating the Risk from Short-Range Airborne Transmission and Inhalation of Expiratory Droplets of SARS-CoV-2. Environmental Science & Technology, 2021, 55, 8987-8999.	4.6	24
18	U.S.â€“China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. Environmental Science & Technology, 2021, 55, 9622-9626.	4.6	10

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19	Advanced Materials for Energy-Water Systems: The Central Role of Water/Solid Interfaces in Adsorption, Reactivity, and Transport. Chemical Reviews, 2021, 121, 9450-9501.	23.0	43
20	Molecularly Functionalized Electrodes for Efficient Electrochemical Water Remediation. ChemSusChem, 2021, 14, 3267-3276.	3.6	0
21	MoS₂â€“Nanosheets-Based Catalysts for Photocatalytic CO₂ Reduction: A Review. ACS Applied Nano Materials, 2021, 4, 8644-8667.	2.4	63
22	Multifunctional Thio-Stabilized Gold Nanoparticles for Near-Infrared Fluorescence Detection and Imaging of Activated Caspase-3. Current Analytical Chemistry, 2021, 17, 1182-1193.	0.6	5
23	Deployment of networked low-cost sensors and comparison to real-time stationary monitors in New Delhi. Journal of the Air and Waste Management Association, 2021, 71, 1347-1360.	0.9	9
24	Spectroscopic investigations of electron and hole dynamics in MAPbBr₃ perovskite film and carrier extraction to PEDOT hole transport layer. Physical Chemistry Chemical Physics, 2021, 23, 13011-13022.	1.3	6
25	One-step aerosol synthesis of a double perovskite oxide (KBaTeBiO6) as a potential catalyst for CO2 photoreduction. Nanoscale, 2021, 13, 11963-11975.	2.8	3
26	Synthesis of Novel Catalysts for Carbon Dioxide Conversion to Products of Value. , 2021, , 527-556.		1
27	Integrating Fixed Monitoring Systems with Low-Cost Sensors to Create High-Resolution Air Quality Maps for the Northern China Plain Region. ACS Earth and Space Chemistry, 2021, 5, 3022-3035.	1.2	8
28	Protection levels of N95-level respirator substitutes proposed during the COVID-19 pandemic: safety concerns and quantitative evaluation procedures. BMJ Open, 2021, 11, e045557.	0.8	1
29	Bimetallic metal-organic frameworks (MOFs) synthesized using the spray method for tunable CO2 adsorption. Chemical Engineering Journal, 2020, 382, 122825.	6.6	58
30	Unraveling the origin of the â€œTurn-Onâ€•effect of Al-MIL-53-NO₂ during H₂S detection. CrystEngComm, 2020, 22, 195-204.	1.3	24
31	Chitosan nanofertilizer to foster source activity in maize. International Journal of Biological Macromolecules, 2020, 145, 226-234.	3.6	57
32	Engineering stable Pt nanoparticles and oxygen vacancies on defective TiO2 via introducing strong electronic metal-support interaction for efficient CO2 photoreduction. Chemical Engineering Journal, 2020, 389, 123450.	6.6	99
33	Optimization of disinfectant dosage for simultaneous control of lead and disinfection-byproducts in water distribution networks. Journal of Environmental Management, 2020, 276, 111186.	3.8	13
34	Performance enhancement of low temperature processed tin oxide as an electron transport layer for perovskite solar cells under ambient conditions. International Journal of Energy Research, 2020, 44, 11361-11371.	2.2	7
35	Modulation of the Aî²-Peptide-Aggregation Pathway by Active Compounds From Platycladus orientalis Seed Extract in Alzheimerâ€™s Disease Models. Frontiers in Aging Neuroscience, 2020, 12, 207.	1.7	5
36	Enhancing charging and capture efficiency of aerosol nanoparticles using an atmospheric-pressure, flow-through RF plasma with a downstream DC bias. Aerosol Science and Technology, 2020, 54, 1249-1254.	1.5	10

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37	Resolving the Atomic Structure of Sequential Infiltration Synthesis Derived Inorganic Clusters. ACS Nano, 2020, 14, 14846-14860.	7.3	25
38	Fenofibrate prevents iron induced activation of canonical Wnt/Î²-catenin and oxidative stress signaling in the retina. Npj Aging and Mechanisms of Disease, 2020, 6, 12.	4.5	16
39	WUDESIM: a toolkit for simulating water quality in the dead-end branches of drinking water distribution networks. Urban Water Journal, 2020, 17, 54-64.	1.0	4
40	Integration of molecular networking and fingerprint analysis for studying constituents in Microctis Folium. PLoS ONE, 2020, 15, e0235533.	1.1	3
41	Characterizing electronic and atomic structures for amorphous and molecular metal oxide catalysts at functional interfaces by combining soft X-ray spectroscopy and high-energy X-ray scattering. Nanoscale, 2020, 12, 13276-13296.	2.8	14
42	Effects of core titanium crystal dimension and crystal phase on ROS generation and tumour accumulation of transferrin coated titanium dioxide nanoaggregates. RSC Advances, 2020, 10, 23759-23766.	1.7	6
43	Measurement of sub-2 nm stable clusters during silane pyrolysis in a furnace aerosol reactor. Journal of Chemical Physics, 2020, 152, 024304.	1.2	14
44	Osteotropic Radiolabeled Nanophotosensitizer for Imaging and Treating Multiple Myeloma. ACS Nano, 2020, 14, 4255-4264.	7.3	26
45	Improved conductivity and ionic mobility in nanostructured thin films via aliovalent doping for ultra-high rate energy storage. Nanoscale Advances, 2020, 2, 2160-2169.	2.2	2
46	Comparison of discrete, discrete-sectional, modal and moment models for aerosol dynamics simulations. Aerosol Science and Technology, 2020, 54, 739-760.	1.5	16
47	Title is missing!. , 2020, 15, e0235533.		0
48	Title is missing!. , 2020, 15, e0235533.		0
49	Title is missing!. , 2020, 15, e0235533.		0
50	Title is missing!. , 2020, 15, e0235533.		0
51	Title is missing!. , 2020, 15, e0235533.		0
52	Title is missing!. , 2020, 15, e0235533.		0
53	Investigation of aerosol and gas emissions from a coal-fired power plant under various operating conditions. Journal of the Air and Waste Management Association, 2019, 69, 34-46.	0.9	7
54	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. Plant Physiology and Biochemistry, 2019, 145, 64-74.	2.8	11

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55	Pressure-regulated synthesis of Cu(TPA)Â·(DMF) in microdroplets for selective CO2 adsorption. Dalton Transactions, 2019, 48, 1006-1016.	1.6	13
56	KBaTeBiO₆: A Lead-Free, Inorganic Double-Perovskite Semiconductor for Photovoltaic Applications. Chemistry of Materials, 2019, 31, 4769-4778.	3.2	46
57	Crystal reorientation in methylammonium lead iodide perovskite thin film with thermal annealing. Journal of Materials Chemistry A, 2019, 7, 12790-12799.	5.2	41
58	Colloid-assisted growth of metalâ€“organic framework nanoparticles. CrystEngComm, 2019, 21, 2268-2272.	1.3	7
59	Mechanistic Insight into Photocatalytic Pathways of MIL-100(Fe)/TiO₂ Composites. ACS Applied Materials & Interfaces, 2019, 11, 12516-12524.	4.0	103
60	Electrospray Functionalization of Titanium Dioxide Nanoparticles with Transferrin for Cerenkov Radiation Induced Cancer Therapy. ACS Applied Bio Materials, 2019, 2, 1141-1147.	2.3	16
61	Investigating the Effects of Stove Emissions on Ocular and Cancer Cells. Scientific Reports, 2019, 9, 1870.	1.6	15
62	Department of Energy, Environmental and Chemical Engineering, Washington University in St Louis. Clean Energy, 2019, 3, 235-238.	1.5	0
63	Rational Design of Efficient Semiconductor-based Photocatalysts via Microdroplets: A Review. KONA Powder and Particle Journal, 2019, 36, 201-214.	0.9	8
64	Synthesis of Cu-Trimesic Acid/Cu-1,4-Benzenedioic Acid via Microdroplets: Role of Component Compositions. Crystal Growth and Design, 2019, 19, 1095-1102.	1.4	14
65	Numerical modeling of the performance of high flow DMAs to classify sub-2â€‰nm particles. Aerosol Science and Technology, 2019, 53, 106-118.	1.5	7
66	Sampling artifacts in denuders during phase partitioning measurements of semi-volatile organic compounds. Aerosol Science and Technology, 2019, 53, 73-85.	1.5	5
67	Zinc encapsulated chitosan nanoparticle to promote maize crop yield. International Journal of Biological Macromolecules, 2019, 127, 126-135.	3.6	134
68	Salicylic acid functionalized chitosan nanoparticle: A sustainable biostimulant for plant. International Journal of Biological Macromolecules, 2019, 123, 59-69.	3.6	106
69	Calcium carbonate nanoparticles stimulate tumor metabolic reprogramming and modulate tumor metastasis. Nanomedicine, 2019, 14, 169-182.	1.7	25
70	Design of Cerenkov Radiationâ€“Assisted Photoactivation of TiO₂ Nanoparticles and Reactive Oxygen Species Generation for Cancer Treatment. Journal of Nuclear Medicine, 2019, 60, 702-709.	2.8	17
71	Engineered chitosan based nanomaterials: Bioactivities, mechanisms and perspectives in plant protection and growth. International Journal of Biological Macromolecules, 2018, 113, 494-506.	3.6	167
72	Supramolecular self-assembly of bacteriochlorophyll c molecules in aerosolized droplets to synthesize biomimetic chlorosomes. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 161-168.	1.7	7

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73	Oriented, Oneâ€Dimensional Tin Dioxideâ€“Titanium Dioxide Composites as Anode Materials for Lithiumâ€Ion Batteries. Energy Technology, 2018, 6, 1966-1974.	1.8	7
74	Iron oxide nanowire-based filter for inactivation of airborne bacteria. Environmental Science: Nano, 2018, 5, 1096-1106.	2.2	30
75	The initial stages of multicomponent particle formation during the gas phase combustion synthesis of mixed SiO2/TiO2. Aerosol Science and Technology, 2018, 52, 277-286.	1.5	7
76	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. Carbohydrate Polymers, 2018, 186, 243-251.	5.1	32
77	Multi-shelled LiMn1.95Co0.05O4 cages with a tunable Mn oxidation state for ultra-high lithium storage. New Journal of Chemistry, 2018, 42, 3953-3960.	1.4	3
78	ZnO1â^'x/carbon dots composite hollow spheres: Facile aerosol synthesis and superior CO2 photoreduction under UV, visible and near-infrared irradiation. Applied Catalysis B: Environmental, 2018, 230, 36-48.	10.8	62
79	A highly sensitive non-enzymatic glucose sensor based on Cu/Cu2O/CuO ternary composite hollow spheres prepared in a furnace aerosol reactor. Sensors and Actuators B: Chemical, 2018, 259, 745-752.	4.0	98
80	Sensing mechanism of ethanol and acetone at room temperature by SnO₂ nano-columns synthesized by aerosol routes: theoretical calculations compared to experimental results. Journal of Materials Chemistry A, 2018, 6, 2053-2066.	5.2	82
81	Thymol nanoemulsion exhibits potential antibacterial activity against bacterial pustule disease and growth promotory effect on soybean. Scientific Reports, 2018, 8, 6650.	1.6	115
82	Improved Sensitivity with Low Limit of Detection of a Hydrogen Gas Sensor Based on rGO-Loaded Ni-Doped ZnO Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 11116-11124.	4.0	137
83	Highly-oriented one-dimensional MOF-semiconductor nanoarrays for efficient photodegradation of antibiotics. Catalysis Science and Technology, 2018, 8, 2117-2123.	2.1	72
84	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. Nano-Micro Letters, 2018, 10, 4.	14.4	84
85	Comparing the performance of 3 bioaerosol samplers for influenza virus. Journal of Aerosol Science, 2018, 115, 133-145.	1.8	48
86	ZnO Nanoparticles: Effect of Size on Bacterial Bioluminescence, Seed Germination, Algal Growth, and Gene Mutation. Environmental Engineering Science, 2018, 35, 231-239.	0.8	9
87	MOF-based ternary nanocomposites for better CO₂photoreduction: roles of heterojunctions and coordinatively unsaturated metal sites. Journal of Materials Chemistry A, 2018, 6, 932-940.	5.2	63
88	Aerosol-synthesized siliceous nanoparticles: impact of morphology and functionalization on biodistribution. International Journal of Nanomedicine, 2018, Volume 13, 7375-7393.	3.3	5
89	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. RSC Advances, 2018, 8, 31296-31302.	1.7	62
90	High-performance ultraviolet detector employing out-of-plane rGO/MoS₂ PN heterostructure. , 2018, , .		0

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91	Sustainable one step process for making carbon-free TiO2 anodes and sodium-ion battery electrochemistry. Sustainable Energy and Fuels, 2018, 2, 1582-1587.	2.5	5
92	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. ACS Applied Nano Materials, 2018, 1, 3682-3692.	2.4	80
93	Associations between household air pollution and reduced lung function in women and children in rural southern India. Journal of Applied Toxicology, 2018, 38, 1405-1415.	1.4	23
94	Focused ultrasound combined with microbubble-mediated intranasal delivery of gold nanoclusters to the brain. Journal of Controlled Release, 2018, 286, 145-153.	4.8	69
95	Investigating particle emissions and aerosol dynamics from a consumer fused deposition modeling 3D printer with a lognormal moment aerosol model. Aerosol Science and Technology, 2018, 52, 1099-1111.	1.5	26
96	Highly Stable Perovskite Solar Cells Fabricated Under Humid Ambient Conditions. IEEE Journal of Photovoltaics, 2017, 7, 532-538.	1.5	23
97	Crumpling of graphene oxide through evaporative confinement in nanodroplets produced by electrohydrodynamic aerosolization. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	16
98	N-doped reduced graphene oxide promoted nano TiO2 as a bifunctional adsorbent/photocatalyst for CO2 photoreduction: Effect of N species. Chemical Engineering Journal, 2017, 316, 449-460.	6.6	129
99	Woodâ€“Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. ACS Applied Materials & Interfaces, 2017, 9, 7675-7681.	4.0	505
100	Rapid Formation of Metalâ€“Organic Frameworks (MOFs) Based Nanocomposites in Microdroplets and Their Applications for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2017, 9, 9688-9698.	4.0	91
101	Mobility and Bipolar Diffusion Charging Characteristics of Crumpled Reduced Graphene Oxide Nanoparticles Synthesized in a Furnace Aerosol Reactor. Journal of Physical Chemistry C, 2017, 121, 10529-10537.	1.5	12
102	Electrosprayâ€Assisted Fabrication of Moistureâ€Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. Advanced Energy Materials, 2017, 7, 1700210.	10.2	51
103	Influence of flame-generated ions on the simultaneous charging and coagulation of nanoparticles during combustion. Aerosol Science and Technology, 2017, 51, 833-844.	1.5	23
104	Photocatalytic degradation of methyl orange dye by pristine titanium dioxide, zinc oxide, and graphene oxide nanostructures and their composites under visible light irradiation. Applied Nanoscience (Switzerland), 2017, 7, 253-259.	1.6	145
105	Facile synthesis of ZnO@ZIF coreâ€“shell nanofibers: crystal growth and gas adsorption. CrystEngComm, 2017, 19, 2445-2450.	1.3	30
106	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. Journal of Materials Chemistry A, 2017, 5, 13976-13982.	5.2	53
107	Organic and inorganic speciation of particulate matter formed during different combustion phases in an improved cookstove. Environmental Research, 2017, 158, 33-42.	3.7	34
108	Detection of Cyber Physical Attacks on Water Distribution Systems via Principal Component Analysis and Artificial Neural Networks. , 2017, , .		20

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109	Cluster formation mechanisms of titanium dioxide during combustion synthesis: Observation with an APi-TOF. Aerosol Science and Technology, 2017, 51, 1071-1081.	1.5	14
110	Graphene oxides in water: assessing stability as a function of material and natural organic matter properties. Environmental Science: Nano, 2017, 4, 1484-1493.	2.2	65
111	Modeling Soluble and Particulate Lead Release into Drinking Water from Full and Partially Replaced Lead Service Lines. Environmental Science & Technology, 2017, 51, 3318-3326.	4.6	35
112	Comparative Study on the Size Distributions, Respiratory Deposition, and Transport of Particles Generated from Commonly Used Medical Nebulizers. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2017, 30, 132-140.	0.7	17
113	Hierarchical architecture of CuInS₂ microsphere thin films: altering laterally aligned crystallographic plane growth by Cd and V doping. CrystEngComm, 2017, 19, 6602-6611.	1.3	18
114	Comparing on-road real-time simultaneous in-cabin and outdoor particulate and gaseous concentrations for a range of ventilation scenarios. Atmospheric Environment, 2017, 166, 130-141.	1.9	31
115	Spatio-temporal measurement of indoor particulate matter concentrations using a wireless network of low-cost sensors in households using solid fuels. Environmental Research, 2017, 152, 59-65.	3.7	64
116	Chemically induced alterations in the characteristics of fouling-causing bio-macromolecules â€“ Implications for the chemical cleaning of fouled membranes. Water Research, 2017, 108, 115-123.	5.3	77
117	Engineering the outermost layers of TiO₂ nanoparticles using in situ Mg doping in a flame aerosol reactor. AIChE Journal, 2017, 63, 870-880.	1.8	21
118	Crumpled graphene oxide decorated SnO2 nanocolumns for the electrochemical detection of free chlorine. Applied Nanoscience (Switzerland), 2017, 7, 645-653.	1.6	18
119	Characterization of Aerosols Generated During Patient Care Activities. Clinical Infectious Diseases, 2017, 65, 1342-1348.	2.9	75
120	Cu-chitosan nanoparticle boost defense responses and plant growth in maize (Zea mays L.). Scientific Reports, 2017, 7, 9754.	1.6	235
121	Editorial (Thematic Issue: Pulmonary Delivery of Systemic Drugs- from Aerosol Generation to) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	0
122	Quantitative Understanding of Nanoparticle Uptake in Watermelon Plants. Frontiers in Plant Science, 2016, 7, 1288.	1.7	208
123	A Hypoxia-Targeted Boron Neutron Capture Therapy Agent for the Treatment of Glioma. Pharmaceutical Research, 2016, 33, 2530-2539.	1.7	16
124	Nano-antacids enhance pH neutralization beyond their bulk counterparts: synthesis and characterization. RSC Advances, 2016, 6, 54331-54335.	1.7	11
125	Band Gap Insensitivity to Large Chemical Pressures in Ternary Bismuth Iodides for Photovoltaic Applications. Journal of Physical Chemistry C, 2016, 120, 28924-28932.	1.5	54
126	Aerosol methods to fabricate perovskite solar cells. , 2016, , .		0

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127	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. Toxicology in Vitro, 2016, 37, 61-69.	1.1	66
128	A review of recent developments in graphene-enabled membranes for water treatment. Environmental Science: Water Research and Technology, 2016, 2, 915-922.	1.2	89
129	Capture of submicrometer particles in a pressurized electrostatic precipitator. Aerosol Science and Technology, 2016, 50, 1115-1129.	1.5	6
130	Investigating the role of biofilms in trihalomethane formation in water distribution systems with a multicomponent model. Water Research, 2016, 104, 208-219.	5.3	79
131	Cu-Chitosan Nanoparticle Mediated Sustainable Approach To Enhance Seedling Growth in Maize by Mobilizing Reserved Food. Journal of Agricultural and Food Chemistry, 2016, 64, 6148-6155.	2.4	192
132	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	11.1	457
133	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). Advanced Materials, 2016, 28, 9234-9234.	11.1	13
134	Crumpled reduced graphene oxideâ€“amineâ€“titanium dioxide nanocomposites for simultaneous carbon dioxide adsorption and photoreduction. Catalysis Science and Technology, 2016, 6, 6187-6196.	2.1	33
135	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. Environmental Science & Technology, 2016, 50, 6964-6973.	4.6	101
136	Characteristics and fouling propensity of polysaccharides in the presence of different monovalent ions. AICHE Journal, 2016, 62, 2501-2507.	1.8	7
137	Water quality modeling in the dead end sections of drinking water distribution networks. Water Research, 2016, 89, 107-117.	5.3	65
138	In Situ Photocatalytic Synthesis of Ag Nanoparticles (nAg) by Crumpled Graphene Oxide Composite Membranes for Filtration and Disinfection Applications. Environmental Science & Technology, 2016, 50, 2514-2521.	4.6	82
139	Directed assembly of the thylakoid membrane on nanostructured TiO₂for a photo-electrochemical cell. Nanoscale, 2016, 8, 1868-1872.	2.8	35
140	Aerosol Processing of Crumpled Graphene Oxide-based Nanocomposites for Drug Delivery. Current Pharmaceutical Design, 2016, 22, 2491-2500.	0.9	6
141	Monovalent ion-mediated fouling propensity of model proteins during low-pressure membrane filtration. Separation and Purification Technology, 2015, 152, 200-206.	3.9	11
142	Elimination of Carbon Contamination from Silicon Kerf Using a Furnace Aerosol Reactor Methodology. Industrial & Engineering Chemistry Research, 2015, 54, 5914-5920.	1.8	52
143	Metaproteomic Analysis of Biocake Proteins To Understand Membrane Fouling in a Submerged Membrane Bioreactor. Environmental Science & Technology, 2015, 49, 1068-1077.	4.6	57
144	Synthesis and in vitro antifungal efficacy of Cuâ€“chitosan nanoparticles against pathogenic fungi of tomato. International Journal of Biological Macromolecules, 2015, 75, 346-353.	3.6	311

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145	Surface Engineered CuO Nanowires with ZnO Islands for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2015, 7, 5685-5692.	4.0	100
146	Real-Time Particulate and CO Concentrations from Cookstoves in Rural Households in Udaipur, India. Environmental Science & Technology, 2015, 49, 7423-7431.	4.6	24
147	Kinetics of sub-2Ânm TiO2 particle formation in an aerosol reactor during thermal decomposition of titanium tetraisopropoxide. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	25
148	Environmentally benign bio-inspired synthesis of Au nanoparticles, their self-assembly and agglomeration. RSC Advances, 2015, 5, 42081-42087.	1.7	31
149	Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes. Environmental Science & Technology, 2015, 49, 6846-6854.	4.6	108
150	Laboratory Evaluation and Calibration of Three Low-Cost Particle Sensors for Particulate Matter Measurement. Aerosol Science and Technology, 2015, 49, 1063-1077.	1.5	306
151	Effects of naturally occurring grit on the reactor performance and microbial community structure of membrane bioreactors. Journal of Membrane Science, 2015, 496, 284-292.	4.1	32
152	Synthesis of Titanium Dioxide Aerosol Gels in a Buoyancy-Opposed Flame Reactor. Aerosol Science and Technology, 2015, 49, 1232-1241.	1.5	15
153	Gold nanocage coupled single crystal TiO2 nanostructures for near-infrared water photolysis. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	12
154	Nanostructured Graphene-Titanium Dioxide Composites Synthesized by a Single-Step Aerosol Process for Photoreduction of Carbon Dioxide. Environmental Engineering Science, 2014, 31, 428-434.	0.8	25
155	Oneâ€Dimensional, Additiveâ€Free, Singleâ€Crystal TiO₂ Nanostructured Anodes Synthesized by a Singleâ€Step Aerosol Process for Highâ€Rate Lithiumâ€Ion Batteries. Energy Technology, 2014, 2, 906-911.	1.8	17
156	Titanium Dioxide Whispering Gallery Microcavities. Advanced Optical Materials, 2014, 2, 711-717.	3.6	59
157	Simultaneous alkali supplementation and fouling mitigation in membrane bioreactors by on-line NaOH backwashing. Journal of Membrane Science, 2014, 457, 120-127.	4.1	34
158	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. Water Research, 2014, 53, 1-11.	5.3	65
159	Characterization of nanostructured pristine and Fe- and V-doped titania synthesized by atomization and bubbling. Journal of Industrial and Engineering Chemistry, 2014, 20, 558-563.	2.9	5
160	Comparison of Measured Particle Lung-Deposited Surface Area Concentrations by an Aerotrak 9000 Using Size Distribution Measurements for a Range of Combustion Aerosols. Aerosol Science and Technology, 2013, 47, 966-978.	1.5	24
161	Nanoparticle synthesis and delivery by an aerosol route for watermelon plant foliar uptake. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	211
162	Toward an Energy-Proportional Building prospect: Evaluation and analysis of the energy consumption in a green building testbed. , 2013, , .		6

#	Article	IF	Citations
163	Inactivation of E. Coli in Water Using Photocatalytic, Nanostructured Films Synthesized by Aerosol Routes. Catalysts, 2013, 3, 247-260.	1.6	11
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