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	Characterization of size, surface charge, and agglomeration state of nanoparticle dispersions for toxicological studies. Journal of Nanoparticle Research, 2009, 11, 77-89.	0.8	1,406
2	Size and Structure Matter: Enhanced CO₂ Photoreduction Efficiency by Size-Resolved Ultrafine Pt Nanoparticles on TiO₂ Single Crystals. Journal of the American Chemical Society, 2012, 134, 11276-11281.	6.6	691
3	Nanoparticles and the Environment. Journal of the Air and Waste Management Association, 2005, 55, 708-746.	0.9	545
4	Role of Surface Area, Primary Particle Size, and Crystal Phase on Titanium Dioxide Nanoparticle Dispersion Properties. Nanoscale Research Letters, 2011, 6, 27.	3.1	533
5	Woodâ€“Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. ACS Applied Materials & Interfaces, 2017, 9, 7675-7681.	4.0	505
6	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	11.1	457
7	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
8	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
9	Cu-chitosan nanoparticle boost defense responses and plant growth in maize (Zea mays L.). Scientific Reports, 2017, 7, 9754.	1.6	235
10	Nanoparticle synthesis and delivery by an aerosol route for watermelon plant foliar uptake. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	211
11	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
12	Quantitative Understanding of Nanoparticle Uptake in Watermelon Plants. Frontiers in Plant Science, 2016, 7, 1288.	1.7	208
13	Crystal structure mediates mode of cell death in TiO2 nanotoxicity. Journal of Nanoparticle Research, 2009, 11, 1361-1374.	0.8	206
14	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
15	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
16	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
17	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
18	Submicrometer Particle Formation and Mercury Speciation Under O2â^'CO2Coal Combustion. Energy & Fuels, 2006, 20, 2357-2363.	2.5	135

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19	Zinc encapsulated chitosan nanoparticle to promote maize crop yield. International Journal of Biological Macromolecules, 2019, 127, 126-135.	3.6	134
20	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
21	Thymol nanoemulsion exhibits potential antibacterial activity against bacterial pustule disease and growth promotory effect on soybean. Scientific Reports, 2018, 8, 6650.	1.6	115
22	Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes. Environmental Science & Technology, 2015, 49, 6846-6854.	4.6	108
23	Salicylic acid functionalized chitosan nanoparticle: A sustainable biostimulant for plant. International Journal of Biological Macromolecules, 2019, 123, 59-69.	3.6	106
24	Evaporation-Induced Crumpling of Graphene Oxide Nanosheets in Aerosolized Droplets: Confinement Force Relationship. Journal of Physical Chemistry Letters, 2012, 3, 3228-3233.	2.1	104
25	Mechanistic Insight into Photocatalytic Pathways of MIL-100(Fe)/TiO₂ Composites. ACS Applied Materials & Interfaces, 2019, 11, 12516-12524.	4.0	103
26	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. Environmental Science & Technology, 2016, 50, 6964-6973.	4.6	101
27	Surface Engineered CuO Nanowires with ZnO Islands for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2015, 7, 5685-5692.	4.0	100
28	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
29	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
30	Rapid synthesis of nanostructured Cuâ€“TiO2â€“SiO2 composites for CO2 photoreduction by evaporation driven self-assembly. Catalysis Science and Technology, 2011, 1, 593.	2.1	97
31	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
32	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
33	Breath-, air- and surface-borne SARS-CoV-2 in hospitals. Journal of Aerosol Science, 2021, 152, 105693.	1.8	89
34	Aerosol-Chemical Vapor Deposition Method For Synthesis of Nanostructured Metal Oxide Thin Films With Controlled Morphology. Journal of Physical Chemistry Letters, 2010, 1, 249-253.	2.1	87
35	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. Nano-Micro Letters, 2018, 10, 4.	14.4	84
36	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

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37	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
38	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
39	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
40	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
41	One-step synthesis of noble metalâ€“titanium dioxide nanocomposites in a flame aerosol reactor. Applied Catalysis A: General, 2008, 345, 241-246.	2.2	77
42	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
43	Characterization of Aerosols Generated During Patient Care Activities. Clinical Infectious Diseases, 2017, 65, 1342-1348.	2.9	75
44	Nanostructured photoactive films synthesized by a flame aerosol reactor. AICHE Journal, 2007, 53, 1727-1735.	1.8	74
45	Highly-oriented one-dimensional MOF-semiconductor nanoarrays for efficient photodegradation of antibiotics. Catalysis Science and Technology, 2018, 8, 2117-2123.	2.1	72
46	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
47	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. Toxicology in Vitro, 2016, 37, 61-69.	1.1	66
48	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. Water Research, 2014, 53, 1-11.	5.3	65
49	Water quality modeling in the dead end sections of drinking water distribution networks. Water Research, 2016, 89, 107-117.	5.3	65
50	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
51	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
52	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
53	MoS₂â€“Nanosheets-Based Catalysts for Photocatalytic CO₂ Reduction: A Review. ACS Applied Nano Materials, 2021, 4, 8644-8667.	2.4	63
54	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

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55	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. RSC Advances, 2018, 8, 31296-31302.	1.7	62
56	Titanium Dioxide Whispering Gallery Microcavities. Advanced Optical Materials, 2014, 2, 711-717.	3.6	59
57	Bimetallic metal-organic frameworks (MOFs) synthesized using the spray method for tunable CO2 adsorption. Chemical Engineering Journal, 2020, 382, 122825.	6.6	58
58	Metaproteomic Analysis of Biocake Proteins To Understand Membrane Fouling in a Submerged Membrane Bioreactor. Environmental Science & Technology, 2015, 49, 1068-1077.	4.6	57
59	Chitosan nanofertilizer to foster source activity in maize. International Journal of Biological Macromolecules, 2020, 145, 226-234.	3.6	57
60	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
61	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. Journal of Materials Chemistry A, 2017, 5, 13976-13982.	5.2	53
62	Electrospray-assisted characterization and deposition of chlorosomes to fabricate a biomimetic light-harvesting device. Energy and Environmental Science, 2010, 3, 216-222.	15.6	52
63	Elimination of Carbon Contamination from Silicon Kerf Using a Furnace Aerosol Reactor Methodology. Industrial & Engineering Chemistry Research, 2015, 54, 5914-5920.	1.8	52
64	Electrosprayâ€Assisted Fabrication of Moistureâ€Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. Advanced Energy Materials, 2017, 7, 1700210.	10.2	51
65	Comparing the performance of 3 bioaerosol samplers for influenza virus. Journal of Aerosol Science, 2018, 115, 133-145.	1.8	48
66	KBaTeBiO₆: A Lead-Free, Inorganic Double-Perovskite Semiconductor for Photovoltaic Applications. Chemistry of Materials, 2019, 31, 4769-4778.	3.2	46
67	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>	6.6	44
68	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
69	Electrospray versus Nebulization for Aerosolization and Filter Testing with Bacteriophage Particles. Aerosol Science and Technology, 2009, 43, 298-304.	1.5	42
70	Crystal reorientation in methylammonium lead iodide perovskite thin film with thermal annealing. Journal of Materials Chemistry A, 2019, 7, 12790-12799.	5.2	41
71	Porous Film Deposition by Electrohydrodynamic Atomization of Nanoparticle Sols. Aerosol Science and Technology, 2008, 42, 75-85.	1.5	39
72	Production of Narrow-Size-Distribution Polymer-Pigment-Nanoparticle Composites via Electrohydrodynamic Atomization. Macromolecular Materials and Engineering, 2007, 292, 495-502.	1.7	38

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73	Hydrazine-Assisted, Low-Temperature Aerosol Pyrolysis Method to Synthesize Î³-Fe2O3. Chemistry of Materials, 2008, 20, 4906-4914.	3.2	37
74	Directed assembly of the thylakoid membrane on nanostructured TiO₂for a photo-electrochemical cell. Nanoscale, 2016, 8, 1868-1872.	2.8	35
75	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
76	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
77	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
78	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
79	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
80	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. Carbohydrate Polymers, 2018, 186, 243-251.	5.1	32
81	Environmentally benign bio-inspired synthesis of Au nanoparticles, their self-assembly and agglomeration. RSC Advances, 2015, 5, 42081-42087.	1.7	31
82	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
83	Facile synthesis of ZnO@ZIF coreâ€“shell nanofibers: crystal growth and gas adsorption. CrystEngComm, 2017, 19, 2445-2450.	1.3	30
84	Iron oxide nanowire-based filter for inactivation of airborne bacteria. Environmental Science: Nano, 2018, 5, 1096-1106.	2.2	30
85	Reduction of nanoparticle exposure to welding aerosols by modification of the ventilation system in a workplace. Journal of Nanoparticle Research, 2006, 9, 127-136.	0.8	28
86	Title is missing!. Journal of Nanoparticle Research, 2003, 5, 259-268.	0.8	27
87	Using Kriging incorporated with wind direction to investigate ground-level PM2.5 concentration. Science of the Total Environment, 2021, 751, 141813.	3.9	27
88	Generation and characterization of stable, highly concentrated titanium dioxide nanoparticle aerosols for rodent inhalation studies. Journal of Nanoparticle Research, 2011, 13, 511-524.	0.8	26
89	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
90	Osteotropic Radiolabeled Nanophotosensitizer for Imaging and Treating Multiple Myeloma. ACS Nano, 2020, 14, 4255-4264.	7.3	26

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91	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
92	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
93	Calcium carbonate nanoparticles stimulate tumor metabolic reprogramming and modulate tumor metastasis. Nanomedicine, 2019, 14, 169-182.	1.7	25
94	Resolving the Atomic Structure of Sequential Infiltration Synthesis Derived Inorganic Clusters. ACS Nano, 2020, 14, 14846-14860.	7.3	25
95	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
96	Real-Time Particulate and CO Concentrations from Cookstoves in Rural Households in Udaipur, India. Environmental Science & Technology, 2015, 49, 7423-7431.	4.6	24
97	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
98	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
99	Highly Stable Perovskite Solar Cells Fabricated Under Humid Ambient Conditions. IEEE Journal of Photovoltaics, 2017, 7, 532-538.	1.5	23
100	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
101	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
102	Mini Review on Gas-Phase Synthesis for Energy Nanomaterials. Energy & Fuels, 2021, 35, 63-85.	2.5	23
103	Tubular Reactor Synthesis of Doped Nanostructured Titanium Dioxide and Its Enhanced Activation by Coronas and Soft X-rays. Industrial & Engineering Chemistry Research, 2005, 44, 5213-5220.	1.8	22
104	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
105	Study of the mobility, surface area, and sintering behavior of agglomerates in the transition regime by tandem differential mobility analysis. Journal of Nanoparticle Research, 2007, 9, 1003-1012.	0.8	21
106	Size distributions of aerosols in an indoor environment with engineered nanoparticle synthesis reactors operating under different scenarios. Journal of Nanoparticle Research, 2010, 12, 1055-1064.	0.8	21
107	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
108	Sintering Rates for Pristine and Doped Titanium Dioxide Determined Using a Tandem Differential Mobility Analyzer System. Aerosol Science and Technology, 2006, 40, 309-319.	1.5	20

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109	Energy Recycling by Co-Combustion of Coal and Recovered Paint Solids from Automobile Paint Operations. Journal of the Air and Waste Management Association, 2009, 59, 553-559.	0.9	20
110	Detection of Cyber Physical Attacks on Water Distribution Systems via Principal Component Analysis and Artificial Neural Networks. , 2017, , .		20
111	Size Distribution and Morphology of Liposome Aerosols Generated By Two Methodologies. Aerosol Science and Technology, 2010, 44, 972-982.	1.5	19
112	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
113	Crumpled graphene oxide decorated SnO2 nanocolumns for the electrochemical detection of free chlorine. Applied Nanoscience (Switzerland), 2017, 7, 645-653.	1.6	18
114	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
115	The energy-environment nexus: aerosol science and technology enabling solutions. Frontiers of Environmental Science and Engineering in China, 2011, 5, 299-312.	0.8	17
116	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
117	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
118	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
119	Thermal conduction effects impacting morphology during synthesis of columnar nanostructured TiO2 thin films. Journal of Materials Chemistry, 2011, 21, 7913.	6.7	16
120	A Hypoxia-Targeted Boron Neutron Capture Therapy Agent for the Treatment of Glioma. Pharmaceutical Research, 2016, 33, 2530-2539.	1.7	16
121	Crumpling of graphene oxide through evaporative confinement in nanodroplets produced by electrohydrodynamic aerosolization. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	16
122	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
123	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
124	Comparison of discrete, discrete-sectional, modal and moment models for aerosol dynamics simulations. Aerosol Science and Technology, 2020, 54, 739-760.	1.5	16
125	Synthesis of Titanium Dioxide Aerosol Gels in a Buoyancy-Opposed Flame Reactor. Aerosol Science and Technology, 2015, 49, 1232-1241.	1.5	15
126	Investigating the Effects of Stove Emissions on Ocular and Cancer Cells. Scientific Reports, 2019, 9, 1870.	1.6	15

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127	Evaluation of Nanostructured Sorbents in Differential Bed Reactors for Elemental Mercury Capture. Environmental Engineering Science, 2008, 25, 1061-1070.	0.8	14
128	In Situ Charge Characterization of TiO2 and Cuâ€“TiO2 Nanoparticles in a Flame Aerosol Reactor. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	14
129	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
130	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
131	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
132	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
133	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). Advanced Materials, 2016, 28, 9234-9234.	11.1	13
134	Pressure-regulated synthesis of Cu(TPA)Â·(DMF) in microdroplets for selective CO2 adsorption. Dalton Transactions, 2019, 48, 1006-1016.	1.6	13
135	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
136	Gold nanocage coupled single crystal TiO2 nanostructures for near-infrared water photolysis. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	12
137	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
138	Plasmonic Au Nanoparticles Sensitized MoSâ„‚ for Bifunctional NOâ„‚ and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197.	2.4	12
139	Inactivation of E. Coli in Water Using Photocatalytic, Nanostructured Films Synthesized by Aerosol Routes. Catalysts, 2013, 3, 247-260.	1.6	11
140	Monovalent ion-mediated fouling propensity of model proteins during low-pressure membrane filtration. Separation and Purification Technology, 2015, 152, 200-206.	3.9	11
141	Nano-antacids enhance pH neutralization beyond their bulk counterparts: synthesis and characterization. RSC Advances, 2016, 6, 54331-54335.	1.7	11
142	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. Plant Physiology and Biochemistry, 2019, 145, 64-74.	2.8	11
143	Coagulation Coefficient of Agglomerates with Different Fractal Dimensions. Aerosol Science and Technology, 2011, 45, 740-743.	1.5	10
144	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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145	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
146	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
147	Nano-Structured Sorbent Injection Strategies for Heavy Metal Capture in Combustion Exhausts. Aerosol Science and Technology, 2010, 44, 676-691.	1.5	9
148	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
149	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
150	Rational Design of Efficient Semiconductor-based Photocatalysts via Microdroplets: A Review. KONA Powder and Particle Journal, 2019, 36, 201-214.	0.9	8
151	Size-Dependent Filtration Efficiency of Alternative Facemask Filter Materials. Materials, 2021, 14, 1868.	1.3	8
152	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
153	Characteristics and fouling propensity of polysaccharides in the presence of different monovalent ions. AICHE Journal, 2016, 62, 2501-2507.	1.8	7
154	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
155	Oriented, Oneâ€Dimensional Tin Dioxideâ€“Titanium Dioxide Composites as Anode Materials for Lithiumâ€Ion Batteries. Energy Technology, 2018, 6, 1966-1974.	1.8	7
156	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
157	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
158	Colloid-assisted growth of metalâ€“organic framework nanoparticles. CrystEngComm, 2019, 21, 2268-2272.	1.3	7
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160	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
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