

# Pratim Biswas

## List of Publications by Year in descending order

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Version: 2024-02-01

185  
papers

14,989  
citations

25034

57  
h-index

19190

118  
g-index

189  
all docs

189  
docs citations

189  
times ranked

18609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled synthesis of alumina in a spray flame aerosol reactor. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1481-1490.	3.8	5
2	Exciton Binding Energy of MAPbI <sub>3</sub> Thin Film Elucidated via Analysis and Modeling of Perovskite Absorption and Photoluminescence Properties Using Various Methodologies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1046-1054.	3.1	18
3	Comparison of aerosol mitigation strategies and aerosol persistence in dental environments. <i>Infection Control and Hospital Epidemiology</i> , 2022, 43, 1779-1784.	1.8	5
4	Controlled synthesis of charged lignin nanocarriers by electrospray. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129314.	4.7	7
5	Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize ( <i>Zea mays</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021, 159, 53-66.	5.8	78
6	Plasmonic Au Nanoparticles Sensitized MoS <sub>2</sub> , for Bifunctional NO <sub>2</sub> , and Light Sensing. <i>IEEE Sensors Journal</i> , 2021, 21, 4190-4197.	4.7	12
7	Using Kriging incorporated with wind direction to investigate ground-level PM <sub>2.5</sub> concentration. <i>Science of the Total Environment</i> , 2021, 751, 141813.	8.0	27
8	Mini Review on Gas-Phase Synthesis for Energy Nanomaterials. <i>Energy &amp; Fuels</i> , 2021, 35, 63-85.	5.1	23
9	Numerical and experimental investigation on the performance of a ventilated chamber for low-cost PM sensor calibration. <i>Journal of Aerosol Science</i> , 2021, 151, 105680.	3.8	4
10	The prediction of size and charge of particles formed from evaporation of charged droplets generated in an electrospray system. <i>Chemical Engineering Science</i> , 2021, 231, 116237.	3.8	10
11	Characterization of flame synthesized Pd-TiO <sub>2</sub> nanocomposite catalysts for oxygen removal from CO <sub>2</sub> -rich streams in oxy combustion exhausts. <i>Catalysis Science and Technology</i> , 2021, 11, 4763-4775.	4.1	2
12	Measurement of sub-300nm flame-generated particles using butanol CPCs in boosted conditions. <i>Aerosol Science and Technology</i> , 2021, 55, 785-794.	3.1	3
13	Aerosol Dynamics Model for Estimating the Risk from Short-Range Airborne Transmission and Inhalation of Expiratory Droplets of SARS-CoV-2. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8987-8999.	10.0	24
14	U.S.-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
15	Room temperature gas sensing mechanism of SnO <sub>2</sub> towards chloroform: Comparing first principles calculations with sensing experiments. <i>Applied Surface Science</i> , 2021, 554, 149603.	6.1	9
16	Deployment of networked low-cost sensors and comparison to real-time stationary monitors in New Delhi. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 1347-1360.	1.9	9
17	Real-time source apportionment of fine particle inorganic and organic constituents at an urban site in Delhi city: An IoT-based approach. <i>Atmospheric Pollution Research</i> , 2021, 12, 101206.	3.8	7
18	Spectroscopic investigations of electron and hole dynamics in MAPbBr <sub>3</sub> perovskite film and carrier extraction to PEDOT hole transport layer. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13011-13022.	2.8	6

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19	One-step aerosol synthesis of a double perovskite oxide (KBaTeBiO <sub>6</sub> ) as a potential catalyst for CO <sub>2</sub> photoreduction. <i>Nanoscale</i> , 2021, 13, 11963-11975.	5.6	3
20	Integrating Fixed Monitoring Systems with Low-Cost Sensors to Create High-Resolution Air Quality Maps for the Northern China Plain Region. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3022-3035.	2.7	8
21	Chitosan nanofertilizer to foster source activity in maize. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 226-234.	7.5	57
22	Engineering stable Pt nanoparticles and oxygen vacancies on defective TiO <sub>2</sub> via introducing strong electronic metal-support interaction for efficient CO <sub>2</sub> photoreduction. <i>Chemical Engineering Journal</i> , 2020, 389, 123450.	12.7	99
23	Optimization of disinfectant dosage for simultaneous control of lead and disinfection-byproducts in water distribution networks. <i>Journal of Environmental Management</i> , 2020, 276, 111186.	7.8	13
24	Control of Lead Contamination in Water Distribution Networks: A Dynamic Optimization Framework. <i>IFAC-PapersOnLine</i> , 2020, 53, 277-282.	0.9	0
25	Performance enhancement of low temperature processed tin oxide as an electron transport layer for perovskite solar cells under ambient conditions. <i>International Journal of Energy Research</i> , 2020, 44, 11361-11371.	4.5	7
26	Enhancing charging and capture efficiency of aerosol nanoparticles using an atmospheric-pressure, flow-through RF plasma with a downstream DC bias. <i>Aerosol Science and Technology</i> , 2020, 54, 1249-1254.	3.1	10
27	Highly conductive PEDOT films with enhanced catalytic activity for dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 211, 258-264.	6.1	15
28	Characterization of particle charging in low-temperature, atmospheric-pressure, flow-through plasmas. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 245204.	2.8	27
29	Effects of core titanium crystal dimension and crystal phase on ROS generation and tumour accumulation of transferrin coated titanium dioxide nanoaggregates. <i>RSC Advances</i> , 2020, 10, 23759-23766.	3.6	6
30	Measurement of sub-2 nm stable clusters during silane pyrolysis in a furnace aerosol reactor. <i>Journal of Chemical Physics</i> , 2020, 152, 024304.	3.0	14
31	Integrating low-cost air quality sensor networks with fixed and satellite monitoring systems to study ground-level PM <sub>2.5</sub> . <i>Atmospheric Environment</i> , 2020, 223, 117293.	4.1	61
32	Framework for Evaluating the Impact of Water Chemistry Changes in Full-Scale Drinking Water Distribution Networks on Lead Concentrations at the Tap. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	1.4	8
33	Osteotropic Radiolabeled Nanophotosensitizer for Imaging and Treating Multiple Myeloma. <i>ACS Nano</i> , 2020, 14, 4255-4264.	14.6	26
34	Improved conductivity and ionic mobility in nanostructured thin films via aliovalent doping for ultra-high rate energy storage. <i>Nanoscale Advances</i> , 2020, 2, 2160-2169.	4.6	2
35	Comparison of discrete, discrete-sectional, modal and moment models for aerosol dynamics simulations. <i>Aerosol Science and Technology</i> , 2020, 54, 739-760.	3.1	16
36	Evaluation of Nine Low-cost-sensor-based Particulate Matter Monitors. <i>Aerosol and Air Quality Research</i> , 2020, 20, 254-270.	2.1	77

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37	Boosting Sensing Performance of Vacancy-Containing Vertically Aligned MoS <sub>2</sub> Using rGO Particles. <i>IEEE Sensors Journal</i> , 2019, 19, 10214-10220.	4.7	18
38	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. <i>Plant Physiology and Biochemistry</i> , 2019, 145, 64-74.	5.8	11
39	NO <sub>2</sub> gas sensing performance enhancement based on reduced graphene oxide decorated V <sub>2</sub> O <sub>5</sub> thin films. <i>Nanotechnology</i> , 2019, 30, 224001.	2.6	25
40	KBaTeBiO <sub>6</sub> : A Lead-Free, Inorganic Double-Perovskite Semiconductor for Photovoltaic Applications. <i>Chemistry of Materials</i> , 2019, 31, 4769-4778.	6.7	46
41	Modeling simultaneous coagulation and charging of nanoparticles at high temperatures using the method of moments. <i>Journal of Aerosol Science</i> , 2019, 132, 70-82.	3.8	11
42	Crystal reorientation in methylammonium lead iodide perovskite thin film with thermal annealing. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12790-12799.	10.3	41
43	Electrospray Functionalization of Titanium Dioxide Nanoparticles with Transferrin for Cerenkov Radiation Induced Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 1141-1147.	4.6	16
44	Single-step growth of CuInS <sub>2</sub> nanospheres morphology thin films by electrospray chemical aerosol deposition technique. <i>Materials Letters</i> , 2019, 238, 206-209.	2.6	12
45	Numerical modeling of the performance of high flow DMAs to classify sub-2µm particles. <i>Aerosol Science and Technology</i> , 2019, 53, 106-118.	3.1	7
46	Sampling artifacts in denuders during phase partitioning measurements of semi-volatile organic compounds. <i>Aerosol Science and Technology</i> , 2019, 53, 73-85.	3.1	5
47	Design of Cerenkov Radiation-Assisted Photoactivation of TiO <sub>2</sub> Nanoparticles and Reactive Oxygen Species Generation for Cancer Treatment. <i>Journal of Nuclear Medicine</i> , 2019, 60, 702-709.	5.0	17
48	Oriented, One-Dimensional Tin Dioxide-Titanium Dioxide Composites as Anode Materials for Lithium-Ion Batteries. <i>Energy Technology</i> , 2018, 6, 1966-1974.	3.8	7
49	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. <i>Carbohydrate Polymers</i> , 2018, 186, 243-251.	10.2	32
50	Multi-shelled LiMn <sub>1.95</sub> Co <sub>0.05</sub> O <sub>4</sub> cages with a tunable Mn oxidation state for ultra-high lithium storage. <i>New Journal of Chemistry</i> , 2018, 42, 3953-3960.	2.8	3
51	ZnO <sub>1-x</sub> /carbon dots composite hollow spheres: Facile aerosol synthesis and superior CO <sub>2</sub> photoreduction under UV, visible and near-infrared irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 36-48.	20.2	62
52	Sensing mechanism of ethanol and acetone at room temperature by SnO <sub>2</sub> nano-columns synthesized by aerosol routes: theoretical calculations compared to experimental results. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2053-2066.	10.3	82
53	Improved Sensitivity with Low Limit of Detection of a Hydrogen Gas Sensor Based on rGO-Loaded Ni-Doped ZnO Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11116-11124.	8.0	137
54	Sub-2 nm particle measurement in high-temperature aerosol reactors: a review. <i>Current Opinion in Chemical Engineering</i> , 2018, 21, 60-66.	7.8	12

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55	Nanofertilizer for Precision and Sustainable Agriculture: Current State and Future Perspectives. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6487-6503.	5.2	416
56	Spatiotemporal distribution of indoor particulate matter concentration with a low-cost sensor network. <i>Building and Environment</i> , 2018, 127, 138-147.	6.9	77
57	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. <i>RSC Advances</i> , 2018, 8, 31296-31302.	3.6	62
58	Atmospheric pressure plasma corona enhanced by photoionizer for degradation of VOCs. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 445206.	2.8	6
59	Sustainable one step process for making carbon-free TiO <sub>2</sub> anodes and sodium-ion battery electrochemistry. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1582-1587.	4.9	5
60	Graphene synthesized as by-product of gas purification in long-term space missions and its lithium-ion battery application. <i>Advances in Space Research</i> , 2018, 62, 1015-1024.	2.6	2
61	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. <i>ACS Applied Nano Materials</i> , 2018, 1, 3682-3692.	5.0	80
62	Associations between household air pollution and reduced lung function in women and children in rural southern India. <i>Journal of Applied Toxicology</i> , 2018, 38, 1405-1415.	2.8	23
63	High-performance photodetector based on hybrid of MoS <sub>2</sub> and reduced graphene oxide. <i>Nanotechnology</i> , 2018, 29, 404001.	2.6	25
64	SnO <sub>2</sub> Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29972-29981.	8.0	44
65	The high charge fraction of flame-generated particles in the size range below 3 nm measured by enhanced particle detectors. <i>Combustion and Flame</i> , 2017, 176, 72-80.	5.2	31
66	Highly Stable Perovskite Solar Cells Fabricated Under Humid Ambient Conditions. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 532-538.	2.5	23
67	N-doped reduced graphene oxide promoted nano TiO <sub>2</sub> as a bifunctional adsorbent/photocatalyst for CO <sub>2</sub> photoreduction: Effect of N species. <i>Chemical Engineering Journal</i> , 2017, 316, 449-460.	12.7	129
68	Wood-Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7675-7681.	8.0	505
69	Mobility and Bipolar Diffusion Charging Characteristics of Crumpled Reduced Graphene Oxide Nanoparticles Synthesized in a Furnace Aerosol Reactor. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10529-10537.	3.1	12
70	Electrospray-Assisted Fabrication of Moisture-Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. <i>Advanced Energy Materials</i> , 2017, 7, 1700210.	19.5	51
71	Influence of flame-generated ions on the simultaneous charging and coagulation of nanoparticles during combustion. <i>Aerosol Science and Technology</i> , 2017, 51, 833-844.	3.1	23
72	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13976-13982.	10.3	53

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73	Organic and inorganic speciation of particulate matter formed during different combustion phases in an improved cookstove. <i>Environmental Research</i> , 2017, 158, 33-42.	7.5	34
74	Cluster formation mechanisms of titanium dioxide during combustion synthesis: Observation with an API-TOF. <i>Aerosol Science and Technology</i> , 2017, 51, 1071-1081.	3.1	14
75	Graphene oxides in water: assessing stability as a function of material and natural organic matter properties. <i>Environmental Science: Nano</i> , 2017, 4, 1484-1493.	4.3	65
76	Modeling Soluble and Particulate Lead Release into Drinking Water from Full and Partially Replaced Lead Service Lines. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3318-3326.	10.0	35
77	Non-invasive aerosol delivery and transport of gold nanoparticles to the brain. <i>Scientific Reports</i> , 2017, 7, 44718.	3.3	48
78	Photochemically assisted fast abiotic oxidation of manganese and formation of $\gamma$ - $\text{MnO}_2$ nanosheets in nitrate solution. <i>Chemical Communications</i> , 2017, 53, 4445-4448.	4.1	37
79	Hierarchical architecture of $\text{CuInS}_2$ microsphere thin films: altering laterally aligned crystallographic plane growth by Cd and V doping. <i>CrystEngComm</i> , 2017, 19, 6602-6611.	2.6	18
80	Photochemically-Assisted Synthesis of Birnessite Nanosheets and Their Structural Alteration in the Presence of Pyrophosphate. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10624-10632.	6.7	20
81	Formation of Nitrogen-Containing Organic Aerosol during Combustion of High-Sulfur-Content Coal. <i>Energy &amp; Fuels</i> , 2017, 31, 14161-14168.	5.1	5
82	Spatio-temporal measurement of indoor particulate matter concentrations using a wireless network of low-cost sensors in households using solid fuels. <i>Environmental Research</i> , 2017, 152, 59-65.	7.5	64
83	Model based prediction of nanostructured thin film morphology in an aerosol chemical vapor deposition process. <i>Chemical Engineering Journal</i> , 2017, 310, 102-113.	12.7	13
84	Engineering the outermost layers of $\text{TiO}_2$ nanoparticles using <i>in situ</i> Mg doping in a flame aerosol reactor. <i>AIChE Journal</i> , 2017, 63, 870-880.	3.6	21
85	Measurement and numerical simulation of ultrafine particle size distribution in the early stage of high-sodium lignite combustion. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2083-2090.	3.9	30
86	Observation of incipient particle formation during flame synthesis by tandem differential mobility analysis-mass spectrometry (DMA-MS). <i>Proceedings of the Combustion Institute</i> , 2017, 36, 745-752.	3.9	20
87	Crumpled graphene oxide decorated $\text{SnO}_2$ nanocolumns for the electrochemical detection of free chlorine. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 645-653.	3.1	18
88	Optical Characterization Studies of a Low-Cost Particle Sensor. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1691-1704.	2.1	44
89	Quantitative Understanding of Nanoparticle Uptake in Watermelon Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 1288.	3.6	208
90	Characterization of gaseous and particulate pollutants from gasification-based improved cookstoves. <i>Energy for Sustainable Development</i> , 2016, 32, 130-139.	4.5	27

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91	Characterization of organic and black carbon aerosol formation during coal combustion: An experimental study in a 1 MW pilot scale coal combustor. <i>Fuel</i> , 2016, 180, 653-658.	6.4	14
92	Flame aerosol synthesis of nanostructured materials and functional devices: Processing, modeling, and diagnostics. <i>Progress in Energy and Combustion Science</i> , 2016, 55, 1-59.	31.2	249
93	Enhancing the Mobilization of Native Phosphorus in the Mung Bean Rhizosphere Using ZnO Nanoparticles Synthesized by Soil Fungi. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3111-3118.	5.2	194
94	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. <i>Toxicology in Vitro</i> , 2016, 37, 61-69.	2.4	66
95	Cu-Chitosan Nanoparticle Mediated Sustainable Approach To Enhance Seedling Growth in Maize by Mobilizing Reserved Food. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6148-6155.	5.2	192
96	Bilayered Biofoam for Highly Efficient Solar Steam Generation. <i>Advanced Materials</i> , 2016, 28, 9400-9407.	21.0	457
97	Crumpled reduced graphene oxide-amine-titanium dioxide nanocomposites for simultaneous carbon dioxide adsorption and photoreduction. <i>Catalysis Science and Technology</i> , 2016, 6, 6187-6196.	4.1	33
98	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6964-6973.	10.0	101
99	A model for cost-benefit analysis of cooking fuel alternatives from a rural Indian household perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 291-302.	16.4	24
100	Perspective on Nanoparticle Technology for Biomedical Use. <i>Current Pharmaceutical Design</i> , 2016, 22, 2481-2490.	1.9	69
101	Relationship between pyrolysis products and organic aerosols formed during coal combustion. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2347-2354.	3.9	31
102	Elemental mercury oxidation in an electrostatic precipitator enhanced with in situ soft X-ray irradiation. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 455-465.	1.9	5
103	Synthesis and in vitro antifungal efficacy of Cu-chitosan nanoparticles against pathogenic fungi of tomato. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 346-353.	7.5	311
104	Real-Time Particulate and CO Concentrations from Cookstoves in Rural Households in Udaipur, India. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7423-7431.	10.0	24
105	Kinetics of sub-20nm TiO <sub>2</sub> particle formation in an aerosol reactor during thermal decomposition of titanium tetraisopropoxide. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	25
106	Environmentally benign bio-inspired synthesis of Au nanoparticles, their self-assembly and agglomeration. <i>RSC Advances</i> , 2015, 5, 42081-42087.	3.6	31
107	Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6846-6854.	10.0	108
108	Laboratory Evaluation and Calibration of Three Low-Cost Particle Sensors for Particulate Matter Measurement. <i>Aerosol Science and Technology</i> , 2015, 49, 1063-1077.	3.1	306

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109	Mechanistic evaluation of translocation and physiological impact of titanium dioxide and zinc oxide nanoparticles on the tomato ( <i>Solanum lycopersicum</i> L.) plant. <i>Metallomics</i> , 2015, 7, 1584-1594.	2.4	423
110	TiO <sub>2</sub> nanoparticle biosynthesis and its physiological effect on mung bean ( <i>Vigna radiata</i> L.). <i>Biotechnology Reports</i> (Amsterdam, Netherlands), 2015, 5, 22-26.	4.4	290
111	Gold nanocage coupled single crystal TiO <sub>2</sub> nanostructures for near-infrared water photolysis. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	12
112	Application of Half Mini DMA for sub 2nm particle size distribution measurement in an electrospray and a flame aerosol reactor. <i>Journal of Aerosol Science</i> , 2014, 71, 52-64.	3.8	31
113	Nanostructured Graphene-Titanium Dioxide Composites Synthesized by a Single-Step Aerosol Process for Photoreduction of Carbon Dioxide. <i>Environmental Engineering Science</i> , 2014, 31, 428-434.	1.6	25
114	One-Dimensional, Additive-Free, Single-Crystal TiO <sub>2</sub> Nanostructured Anodes Synthesized by a Single-Step Aerosol Process for High-Rate Lithium-Ion Batteries. <i>Energy Technology</i> , 2014, 2, 906-911.	3.8	17
115	Facile Aerosol Synthesis and Characterization of Ternary Crumpled Graphene-TiO <sub>2</sub> -Magnetite Nanocomposites for Advanced Water Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11766-11774.	8.0	86
116	Measurement of Sub-2 nm Clusters of Pristine and Composite Metal Oxides during Nanomaterial Synthesis in Flame Aerosol Reactors. <i>Analytical Chemistry</i> , 2014, 86, 7523-7529.	6.5	25
117	Aerosolized Droplet Mediated Self-Assembly of Photosynthetic Pigment Analogues and Deposition onto Substrates. <i>ACS Nano</i> , 2014, 8, 1429-1438.	14.6	26
118	Comparison of Measured Particle Lung-Deposited Surface Area Concentrations by an Aerotrak 9000 Using Size Distribution Measurements for a Range of Combustion Aerosols. <i>Aerosol Science and Technology</i> , 2013, 47, 966-978.	3.1	24
119	Nanoparticle synthesis and delivery by an aerosol route for watermelon plant foliar uptake. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	211
120	Role of exhaust gas recycle on submicrometer particle formation during oxy-coal combustion. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3479-3487.	3.9	15
121	Green Synthesis of TiO <sub>2</sub> Nanoparticle Using <i>Aspergillus tubingensis</i> . <i>Advanced Science, Engineering and Medicine</i> , 2013, 5, 943-949.	0.3	59
122	Evaporation-Induced Crumpling of Graphene Oxide Nanosheets in Aerosolized Droplets: Confinement Force Relationship. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3228-3233.	4.6	104
123	Size and Structure Matter: Enhanced CO <sub>2</sub> Photoreduction Efficiency by Size-Resolved Ultrafine Pt Nanoparticles on TiO <sub>2</sub> Single Crystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 11276-11281.	13.7	691
124	In Situ Charge Characterization of TiO <sub>2</sub> and Cu-TiO <sub>2</sub> Nanoparticles in a Flame Aerosol Reactor. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	14
125	Role of Surface Area, Primary Particle Size, and Crystal Phase on Titanium Dioxide Nanoparticle Dispersion Properties. <i>Nanoscale Research Letters</i> , 2011, 6, 27.	5.7	533
126	Evaluation of Mass and Surface Area Concentration of Particle Emissions and Development of Emissions Indices for Cookstoves in Rural India. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2428-2434.	10.0	40



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127	Rapid synthesis of nanostructured Cu@TiO <sub>2</sub> @SiO <sub>2</sub> composites for CO <sub>2</sub> photoreduction by evaporation driven self-assembly. <i>Catalysis Science and Technology</i> , 2011, 1, 593.	4.1	97
128	Thermal conduction effects impacting morphology during synthesis of columnar nanostructured TiO <sub>2</sub> thin films. <i>Journal of Materials Chemistry</i> , 2011, 21, 7913.	6.7	16
129	Single-step processing of copper-doped titania nanomaterials in a flame aerosol reactor. <i>Nanoscale Research Letters</i> , 2011, 6, 441.	5.7	162
130	Nano-Structured Sorbent Injection Strategies for Heavy Metal Capture in Combustion Exhausts. <i>Aerosol Science and Technology</i> , 2010, 44, 676-691.	3.1	9
131	Aerosol-Chemical Vapor Deposition Method For Synthesis of Nanostructured Metal Oxide Thin Films With Controlled Morphology. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 249-253.	4.6	87
132	Characterization of size, surface charge, and agglomeration state of nanoparticle dispersions for toxicological studies. <i>Journal of Nanoparticle Research</i> , 2009, 11, 77-89.	1.9	1,406
133	Synthesis of visible light-active nanostructured TiO <sub>2</sub> photocatalysts in a flame aerosol reactor. <i>Applied Catalysis B: Environmental</i> , 2009, 86, 145-151.	20.2	39
134	Charged Droplet Dynamics in the Submicrometer Size Range. <i>Journal of Physical Chemistry B</i> , 2009, 113, 970-976.	2.6	30
135	Combined Charged Residue-Field Emission Model of Macromolecular Electro spray Ionization. <i>Analytical Chemistry</i> , 2009, 81, 369-377.	6.5	146
136	Predicting the Band Structure of Mixed Transition Metal Oxides: Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2014-2021.	3.1	116
137	Monte carlo simulation of macromolecular ionization by nanoelectrospray. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1098-1107.	2.8	36
138	One-step synthesis of noble metal@titanium dioxide nanocomposites in a flame aerosol reactor. <i>Applied Catalysis A: General</i> , 2008, 345, 241-246.	4.3	77
139	Does nanoparticle activity depend upon size and crystal phase?. <i>Nanotoxicology</i> , 2008, 2, 33-42.	3.0	370
140	Narrow size distribution nanoparticle production by electrospray processing of ferritin. <i>Journal of Aerosol Science</i> , 2008, 39, 432-440.	3.8	34
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