Pratim Biswas

List of Publications by Year
in descending order

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185 papers	14,989 citations	26567 56 h-index	19136 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. Journal of the American Ceramic Society, 2022, 105, 1481-1490.	1.9	5
2	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
3	Comparison of aerosol mitigation strategies and aerosol persistence in dental environments. Infection Control and Hospital Epidemiology, 2022, 43, 1779-1784.	1.0	5
4	Controlled synthesis of charged lignin nanocarriers by electrospray. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129314.	2.3	7
5	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
6	Plasmonic Au Nanoparticles Sensitized MoSâ„‚ for Bifunctional NOâ„‚ and Light Sensing. IEEE Sensors Journal, 2021, 21, 4190-4197.	2.4	12
7	Using Kriging incorporated with wind direction to investigate ground-level PM2.5 concentration. Science of the Total Environment, 2021, 751, 141813.	3.9	27
8	Mini Review on Gas-Phase Synthesis for Energy Nanomaterials. Energy & Fuels, 2021, 35, 63-85.	2.5	23
9	Numerical and experimental investigation on the performance of a ventilated chamber for low-cost PM sensor calibration. Journal of Aerosol Science, 2021, 151, 105680.	1.8	4
10	The prediction of size and charge of particles formed from evaporation of charged droplets generated in an electrospray system. Chemical Engineering Science, 2021, 231, 116237.	1.9	10
11	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
12	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
13	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
14	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
15	Room temperature gas sensing mechanism of SnO2 towards chloroform: Comparing first principles calculations with sensing experiments. Applied Surface Science, 2021, 554, 149603.	3.1	9
16	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
17	Real-time source apportionment of fine particle inorganic and organic constituents at an urban site in Delhi city: An IoT-based approach. Atmospheric Pollution Research, 2021, 12, 101206.	1.8	7
18	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

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19	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
20	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
21	Chitosan nanofertilizer to foster source activity in maize. International Journal of Biological Macromolecules, 2020, 145, 226-234.	3.6	57
22	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
23	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
24	Control of Lead Contamination in Water Distribution Networks: A Dynamic Optimization Framework. IFAC-PapersOnLine, 2020, 53, 277-282.	0.5	0
25	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
26	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
27	Highly conductive PEDOT films with enhanced catalytic activity for dye-sensitized solar cells. Solar Energy, 2020, 211, 258-264.	2.9	15
28	Characterization of particle charging in low-temperature, atmospheric-pressure, flow-through plasmas. Journal Physics D: Applied Physics, 2020, 53, 245204.	1.3	27
29	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
30	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
31	Integrating low-cost air quality sensor networks with fixed and satellite monitoring systems to study ground-level PM2.5. Atmospheric Environment, 2020, 223, 117293.	1.9	61
32	Framework for Evaluating the Impact of Water Chemistry Changes in Full-Scale Drinking Water Distribution Networks on Lead Concentrations at the Tap. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	8
33	Osteotropic Radiolabeled Nanophotosensitizer for Imaging and Treating Multiple Myeloma. ACS Nano, 2020, 14, 4255-4264.	7.3	26
34	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
35	Comparison of discrete, discrete-sectional, modal and moment models for aerosol dynamics simulations. Aerosol Science and Technology, 2020, 54, 739-760.	1.5	16
36	Evaluation of Nine Low-cost-sensor-based Particulate Matter Monitors. Aerosol and Air Quality Research, 2020, 20, 254-270.	0.9	77

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37	Boosting Sensing Performance of Vacancy-Containing Vertically Aligned MoS₂ Using rGO Particles. IEEE Sensors Journal, 2019, 19, 10214-10220.	2.4	18
38	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. Plant Physiology and Biochemistry, 2019, 145, 64-74.	2.8	11
39	NO₂ gas sensing performance enhancement based on reduced graphene oxide decorated V₂O₅ thin films. Nanotechnology, 2019, 30, 224001.	1.3	25
40	KBaTeBiO₆: A Lead-Free, Inorganic Double-Perovskite Semiconductor for Photovoltaic Applications. Chemistry of Materials, 2019, 31, 4769-4778.	3.2	46
41	Modeling simultaneous coagulation and charging of nanoparticles at high temperatures using the method of moments. Journal of Aerosol Science, 2019, 132, 70-82.	1.8	11
42	Crystal reorientation in methylammonium lead iodide perovskite thin film with thermal annealing. Journal of Materials Chemistry A, 2019, 7, 12790-12799.	5.2	41
43	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
44	Single-step growth of CuInS2 nanospheres morphology thin films by electrospray chemical aerosol deposition technique. Materials Letters, 2019, 238, 206-209.	1.3	12
45	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
46	Sampling artifacts in denuders during phase partitioning measurements of semi-volatile organic compounds. Aerosol Science and Technology, 2019, 53, 73-85.	1.5	5
47	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
48	Oriented, Oneâ€Dimensional Tin Dioxideâ€“Titanium Dioxide Composites as Anode Materials for Lithiumâ€ion Batteries. Energy Technology, 2018, 6, 1966-1974.	1.8	7
49	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. Carbohydrate Polymers, 2018, 186, 243-251.	5.1	32
50	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
51	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
52	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
53	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
54	Sub-2 nm particle measurement in high-temperature aerosol reactors: a review. Current Opinion in Chemical Engineering, 2018, 21, 60-66.	3.8	12

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55	Nanofertilizer for Precision and Sustainable Agriculture: Current State and Future Perspectives. Journal of Agricultural and Food Chemistry, 2018, 66, 6487-6503.	2.4	416
56	Spatiotemporal distribution of indoor particulate matter concentration with a low-cost sensor network. Building and Environment, 2018, 127, 138-147.	3.0	77
57	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. RSC Advances, 2018, 8, 31296-31302.	1.7	62
58	Atmospheric pressure plasma corona enhanced by photoionizer for degradation of VOCs. Journal Physics D: Applied Physics, 2018, 51, 445206.	1.3	6
59	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
60	Graphene synthesized as by-product of gas purification in long-term space missions and its lithium-ion battery application. Advances in Space Research, 2018, 62, 1015-1024.	1.2	2
61	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
62	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
63	High-performance photodetector based on hybrid of MoS₂ and reduced graphene oxide. Nanotechnology, 2018, 29, 404001.	1.3	25
64	SnO₂ Nanostructured Thin Films for Room-Temperature Gas Sensing of Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2018, 10, 29972-29981.	4.0	44
65	The high charge fraction of flame-generated particles in the size range below 3 nm measured by enhanced particle detectors. Combustion and Flame, 2017, 176, 72-80.	2.8	31
66	Highly Stable Perovskite Solar Cells Fabricated Under Humid Ambient Conditions. IEEE Journal of Photovoltaics, 2017, 7, 532-538.	1.5	23
67	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
68	Woodâ€“Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. ACS Applied Materials & Interfaces, 2017, 9, 7675-7681.	4.0	505
69	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
70	Electrosprayâ€Assisted Fabrication of Moistureâ€Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. Advanced Energy Materials, 2017, 7, 1700210.	10.2	51
71	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
72	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. Journal of Materials Chemistry A, 2017, 5, 13976-13982.	5.2	53

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73	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
74	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
75	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
76	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
77	Non-invasive aerosol delivery and transport of gold nanoparticles to the brain. Scientific Reports, 2017, 7, 44718.	1.6	48
78	Photochemically assisted fast abiotic oxidation of manganese and formation of Î´-MnO₂nanosheets in nitrate solution. Chemical Communications, 2017, 53, 4445-4448.	2.2	37
79	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
80	Photochemically-Assisted Synthesis of Birnessite Nanosheets and Their Structural Alteration in the Presence of Pyrophosphate. ACS Sustainable Chemistry and Engineering, 2017, 5, 10624-10632.	3.2	20
81	Formation of Nitrogen-Containing Organic Aerosol during Combustion of High-Sulfur-Content Coal. Energy & Fuels, 2017, 31, 14161-14168.	2.5	5
82	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
83	Model based prediction of nanostructured thin film morphology in an aerosol chemical vapor deposition process. Chemical Engineering Journal, 2017, 310, 102-113.	6.6	13
84	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
85	Measurement and numerical simulation of ultrafine particle size distribution in the early stage of high-sodium lignite combustion. Proceedings of the Combustion Institute, 2017, 36, 2083-2090.	2.4	30
86	Observation of incipient particle formation during flame synthesis by tandem differential mobility analysis-mass spectrometry (DMA-MS). Proceedings of the Combustion Institute, 2017, 36, 745-752.	2.4	20
87	Crumpled graphene oxide decorated SnO2 nanocolumns for the electrochemical detection of free chlorine. Applied Nanoscience (Switzerland), 2017, 7, 645-653.	1.6	18
88	Optical Characterization Studies of a Low-Cost Particle Sensor. Aerosol and Air Quality Research, 2017, 17, 1691-1704.	0.9	44
89	Quantitative Understanding of Nanoparticle Uptake in Watermelon Plants. Frontiers in Plant Science, 2016, 7, 1288.	1.7	208
90	Characterization of gaseous and particulate pollutants from gasification-based improved cookstoves. Energy for Sustainable Development, 2016, 32, 130-139.	2.0	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. Fuel, 2016, 180, 653-658.	3.4	14
92	Flame aerosol synthesis of nanostructured materials and functional devices: Processing, modeling, and diagnostics. Progress in Energy and Combustion Science, 2016, 55, 1-59.	15.8	249
93	Enhancing the Mobilization of Native Phosphorus in the Mung Bean Rhizosphere Using ZnO Nanoparticles Synthesized by Soil Fungi. Journal of Agricultural and Food Chemistry, 2016, 64, 3111-3118.	2.4	194
94	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. Toxicology in Vitro, 2016, 37, 61-69.	1.1	66
95	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
96	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	11.1	457
97	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
98	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. Environmental Science & Technology, 2016, 50, 6964-6973.	4.6	101
99	A model for cost-benefit analysis of cooking fuel alternatives from a rural Indian household perspective. Renewable and Sustainable Energy Reviews, 2016, 56, 291-302.	8.2	24
100	Perspective on Nanoparticle Technology for Biomedical Use. Current Pharmaceutical Design, 2016, 22, 2481-2490.	0.9	69
101	Relationship between pyrolysis products and organic aerosols formed during coal combustion. Proceedings of the Combustion Institute, 2015, 35, 2347-2354.	2.4	31
102	Elemental mercury oxidation in an electrostatic precipitator enhanced with in situ soft X-ray irradiation. Journal of the Air and Waste Management Association, 2015, 65, 455-465.	0.9	5
103	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
104	Real-Time Particulate and CO Concentrations from Cookstoves in Rural Households in Udaipur, India. Environmental Science & Technology, 2015, 49, 7423-7431.	4.6	24
105	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
106	Environmentally benign bio-inspired synthesis of Au nanoparticles, their self-assembly and agglomeration. RSC Advances, 2015, 5, 42081-42087.	1.7	31
107	Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes. Environmental Science & Technology, 2015, 49, 6846-6854.	4.6	108
108	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

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109	Mechanistic evaluation of translocation and physiological impact of titanium dioxide and zinc oxide nanoparticles on the tomato (Solanum lycopersicum L.) plant. Metallomics, 2015, 7, 1584-1594.	1.0	423
110	TiO2 nanoparticle biosynthesis and its physiological effect on mung bean (Vigna radiata L.). Biotechnology Reports (Amsterdam, Netherlands), 2015, 5, 22-26.	2.1	290
111	Gold nanocage coupled single crystal TiO2 nanostructures for near-infrared water photolysis. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	12
112	Application of Half Mini DMA for sub 2nm particle size distribution measurement in an electrospray and a flame aerosol reactor. Journal of Aerosol Science, 2014, 71, 52-64.	1.8	31
113	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
114	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
115	Facile Aerosol Synthesis and Characterization of Ternary Crumpled Grapheneâ€“TiO₂â€“Magnetite Nanocomposites for Advanced Water Treatment. ACS Applied Materials & Interfaces, 2014, 6, 11766-11774.	4.0	86
116	Measurement of Sub-2 nm Clusters of Pristine and Composite Metal Oxides during Nanomaterial Synthesis in Flame Aerosol Reactors. Analytical Chemistry, 2014, 86, 7523-7529.	3.2	25
117	Aerosolized Droplet Mediated Self-Assembly of Photosynthetic Pigment Analogues and Deposition onto Substrates. ACS Nano, 2014, 8, 1429-1438.	7.3	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. Aerosol Science and Technology, 2013, 47, 966-978.	1.5	24
119	Nanoparticle synthesis and delivery by an aerosol route for watermelon plant foliar uptake. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	211
120	Role of exhaust gas recycle on submicrometer particle formation during oxy-coal combustion. Proceedings of the Combustion Institute, 2013, 34, 3479-3487.	2.4	15
121	Green Synthesis of TiO₂ Nanoparticle Using <I>Aspergillus tubingensis</I>. Advanced Science, Engineering and Medicine, 2013, 5, 943-949.	0.3	59
122	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
123	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
124	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
125	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
126	Evaluation of Mass and Surface Area Concentration of Particle Emissions and Development of Emissions Indices for Cookstoves in Rural India. Environmental Science & Technology, 2011, 45, 2428-2434.	4.6	40

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127	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
128	Thermal conduction effects impacting morphology during synthesis of columnar nanostructured TiO2 thin films. Journal of Materials Chemistry, 2011, 21, 7913.	6.7	16
129	Single-step processing of copper-doped titania nanomaterials in a flame aerosol reactor. Nanoscale Research Letters, 2011, 6, 441.	3.1	162
130	Nano-Structured Sorbent Injection Strategies for Heavy Metal Capture in Combustion Exhausts. Aerosol Science and Technology, 2010, 44, 676-691.	1.5	9
131	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
132	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
133	Synthesis of visible light-active nanostructured TiOx (x<2) photocatalysts in a flame aerosol reactor. Applied Catalysis B: Environmental, 2009, 86, 145-151.	10.8	39
134	Charged Droplet Dynamics in the Submicrometer Size Range. Journal of Physical Chemistry B, 2009, 113, 970-976.	1.2	30
135	Combined Charged Residue-Field Emission Model of Macromolecular Electrospray Ionization. Analytical Chemistry, 2009, 81, 369-377.	3.2	146
136	Predicting the Band Structure of Mixed Transition Metal Oxides: Theory and Experiment. Journal of Physical Chemistry C, 2009, 113, 2014-2021.	1.5	116
137	Monte carlo simulation of macromolecular ionization by nanoelectrospray. Journal of the American Society for Mass Spectrometry, 2008, 19, 1098-1107.	1.2	36
138	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
139	Does nanoparticle activity depend upon size and crystal phase?. Nanotoxicology, 2008, 2, 33-42.	1.6	370
140	Narrow size distribution nanoparticle production by electrospray processing of ferritin. Journal of Aerosol Science, 2008, 39, 432-440.	1.8	34
141	Nanostructured TiO₂Films with Controlled Morphology Synthesized in a Single Step Process:â€‰ Performance of Dye-Sensitized Solar Cells and Photo Watersplitting. Journal of Physical Chemistry C, 2008, 112, 4134-4140.	1.5	142
142	Porous Film Deposition by Electrohydrodynamic Atomization of Nanoparticle Sols. Aerosol Science and Technology, 2008, 42, 75-85.	1.5	39
143	Synthesis of nanoparticles in a flame aerosol reactor with independent and strict control of their size, crystal phase and morphology. Nanotechnology, 2007, 18, 285603.	1.3	58
144	Nanostructured photoactive films synthesized by a flame aerosol reactor. AICHE Journal, 2007, 53, 1727-1735.	1.8	74

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145	Controlled size polymer particle production via electrohydrodynamic atomization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 311, 67-76.	2.3	85
146	Model for nanoparticle charging by diffusion, direct photoionization, and thermionization mechanisms. Journal of Electrostatics, 2007, 65, 209-220.	1.0	37
147	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
148	Assessing the Risks of Manufactured Nanomaterials. Environmental Science & Technology, 2006, 40, 4336-4345.	4.6	1,018
149	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
150	Nanoparticles and the Environment. Journal of the Air and Waste Management Association, 2005, 55, 708-746.	0.9	545
151	A Brownian Dynamics Simulation to Predict Morphology of Nanoparticle Deposits in the Presence of Interparticle Interactions. Aerosol Science and Technology, 2004, 38, 541-554.	1.5	48
152	Simulation of aerosol dynamics and transport in chemically reacting particulate matter laden flows. Part II: Application to CVD reactors. Chemical Engineering Science, 2004, 59, 359-371.	1.9	21
153	Charging of particles in unipolar coronas irradiated by in-situ soft X-rays: enhancement of capture efficiency of ultrafine particles. Journal of Aerosol Science, 2002, 33, 1279-1296.	1.8	53
154	Role of Synthesis Method and Particle Size of Nanostructured TiO2 on Its Photoactivity. Journal of Catalysis, 2002, 212, 145-156.	3.1	417
155	Comparison of Hg0 capture efficiencies of threein situ generated sorbents. AICHE Journal, 2001, 47, 954-961.	1.8	33
156	Processing of iron-doped titania powders in flame aerosol reactors. Powder Technology, 2001, 114, 197-204.	2.1	82
157	Experimental and theoretical studies of ultra-fine particle behavior in electrostatic precipitators. Journal of Electrostatics, 2000, 48, 245-260.	1.0	181
158	Nickel Speciation and Aerosol Formation During Combustion of Kerosene Doped with Nickel Nitrate Aerosol in a Premixed Burner. Aerosol Science and Technology, 2000, 33, 525-535.	1.5	7
159	Mechanistic Understanding of Aerosol Emissions from a Brazing Operation. AIHAJ: A Journal for the Science of Occupational and Environmental Health and Safety, 2000, 61, 351-361.	0.4	8
160	Characterization of Activated Carbon Fiber Filters for Pressure Drop, Submicrometer Particulate Collection, and Mercury Capture. Journal of the Air and Waste Management Association, 2000, 50, 922-929.	0.9	17
161	Deposition of Multifunctional Titania Ceramic Films by Aerosol Routes. Journal of the American Ceramic Society, 1999, 82, 2573-2579.	1.9	17
162	Study of Numerical Diffusion in a Discrete-Sectional Model and Its Application to Aerosol Dynamics Simulation. Aerosol Science and Technology, 1998, 29, 359-378.	1.5	48

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163	Evaluation of Trickle Bed Air Biofilter Performance as a Function of Inlet VOC Concentration and Loading, and Biomass Control. Journal of the Air and Waste Management Association, 1998, 48, 627-636.	0.9	26
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