Da-Ren Chen

List of Publications by Year
in descending order

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58	2,146	361413	223800
papers	citations	20 h-index	46 g-index

59	59	59	2542
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vertical profile of aerosol number size distribution during a haze pollution episode in Hefei, China. Science of the Total Environment, 2022, 814, 152693.	8.0	13
2	Effect of relative humidity on the performance of five cost-effective PM sensors. Aerosol Science and Technology, 2021, 55, 957-974.	3.1	7
3	Effect of filtration pressure on the particle penetration efficiency of fibrous filter media. Separation and Purification Technology, 2021, 274, 119086.	7.9	1
4	Ink bridge control in the electrohydrodynamic printing with a coaxial nozzle. Journal of Manufacturing Processes, 2020, 60, 418-425.	5.9	7
5	In Situ Quantitative Observation of Hygroscopic Growth of Single Nanoparticle Aerosol by Surface Plasmon Resonance Microscopy. Analytical Chemistry, 2020, 92, 11062-11071.	6.5	10
6	Simulation-Based Design and Optimization of Rectangular Micro-Cantilever-Based Aerosols Mass Sensor. Sensors, 2020, 20, 626.	3.8	6
7	Effect of axial eccentricity on the performance of a cylindrical differential mobility classifier. Aerosol Science and Technology, 2019, 53, 735-748.	3.1	1
8	Maximizing the singly charged fraction of sub-micrometer particles using a unipolar charger. Aerosol Science and Technology, 2019, 53, 990-997.	3.1	5
9	Filter media performance under the oscillating flow condition. Journal of Aerosol Science, 2019, 132, 1-11.	3.8	2
10	Electrohydrodynamic (EHD) jet printing with a circulating dual-channel nozzle. Journal of Micromechanics and Microengineering, 2019, 29, 035013.	2.6	13
11	Performance evaluation of a circular electrical aerosol classifier (CirEAC). Journal of Aerosol Science, 2018, 118, 100-110.	3.8	2
12	Collecting Particulate Matter and Particle-Bound Polycyclic Aromatic Hydrocarbons Using a Cylindrical Thermal Precipitator. Journal of Environmental Engineering, ASCE, 2017, 143, 04017013.	1.4	1
13	Facile synthesis of ZnO@ZIF coreâ€“shell nanofibers: crystal growth and gas adsorption. CrystEngComm, 2017, 19, 2445-2450.	2.6	30
14	In vitro release profiles of PLGA core-shell composite particles loaded with theophylline and budesonide. International Journal of Pharmaceutics, 2017, 528, 637-645.	5.2	11
15	Evaluation of Respirator Filter Media under Inhalation-only Conditions. Aerosol and Air Quality Research, 2017, 17, 2681-2690.	2.1	3
16	Advanced testing method to evaluate the performance of respirator filter media. Journal of Occupational and Environmental Hygiene, 2016, 13, 750-758.	1.0	8
17	Experimental evaluation of miniature plate DMAs (mini-plate DMAs) for future ultrafine particle (UFP) sensor network. Aerosol Science and Technology, 2016, 50, 297-307.	3.1	12
18	Effect of dust loading rate on the loading characteristics of high efficiency filter media. Powder Technology, 2016, 287, 20-28.	4.2	43

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19	An electrospray aerosol generator with X-ray photoionizer for particle charge reduction. Journal of Aerosol Science, 2014, 76, 148-162.	3.8	13
20	Evaluation of twin-head electrospray nanoparticle disperser for nanotoxicity study. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	2
21	Development of a Compact Electrostatic Nanoparticle Sampler for Offline Aerosol Characterization. Mapan - Journal of Metrology Society of India, 2013, 28, 217-226.	1.5	7
22	Comparison Between the Theoretical and Experimental Performance of a Differential Mobility Analyzer with Three Monodisperse-Particle Outlets. Aerosol Science and Technology, 2013, 47, 406-416.	3.1	4
23	A Cylindrical Thermal Precipitator with a Particle Size-Selective Inlet. Aerosol Science and Technology, 2012, 46, 1227-1238.	3.1	6
24	Statistical theory of nanoparticle sensing using a whispering-gallery-mode resonator. Physical Review A, 2012, 85, .	2.5	10
25	Performance study of a twin-head electrospray system. Journal of Aerosol Science, 2012, 52, 33-44.	3.8	13
26	Performance study of a DC-corona-based particle charger for charge conditioning. Journal of Aerosol Science, 2011, 42, 87-99.	3.8	23
27	A cost-effective differential mobility analyzer (cDMA) for multiple DMA column applications. Journal of Aerosol Science, 2011, 42, 462-473.	3.8	12
28	Note: Electrohydrodynamic atomization of liquid sheet. Review of Scientific Instruments, 2011, 82, 026111.	1.3	2
29	Multidrug encapsulation by coaxial tri-capillary electrospray. Colloids and Surfaces B: Biointerfaces, 2011, 82, 104-110.	5.0	81
30	A New Electrospray Aerosol Generator with High Particle Transmission Efficiency. Aerosol Science and Technology, 2011, 45, 1176-1183.	3.1	21
31	Release profile characteristics of biodegradable-polymer-coated drug particles fabricated by dual-capillary electrospray. Journal of Controlled Release, 2010, 145, 58-65.	9.9	137
32	Development of a Multi-Stage Axial Flow Cyclone. Aerosol Science and Technology, 2010, 44, 253-261.	3.1	19
33	A nanoparticle dispersion method forin vitroandin vivonanotoxicity study. Nanotoxicology, 2010, 4, 42-51.	3.0	59
34	Use of an electrical aerosol detector (EAD) for nanoparticle size distribution measurement. Journal of Nanoparticle Research, 2009, 11, 111-120.	1.9	26
35	Toxicity of nano- and micro-sized ZnO particles in human lung epithelial cells. Journal of Nanoparticle Research, 2009, 11, 25-39.	1.9	338
36	A miniature disk electrostatic aerosol classifier (mini-disk EAC) for personal nanoparticle sizers. Journal of Aerosol Science, 2009, 40, 982-992.	3.8	15

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37	Fundamental Study of a Miniaturized Disk-Type Electrostatic Aerosol Precipitator for a Personal Nanoparticle Sizer. Aerosol Science and Technology, 2008, 42, 505-512.	3.1	16
38	Operational Modes of Dual-capillary Electrospraying and the Formation of the Stable Compound Cone-jet Mod. Aerosol and Air Quality Research, 2008, 8, 218-232.	2.1	17
39	Development of a Multiple-Stage Differential Mobility Analyzer (MDMA). Aerosol Science and Technology, 2007, 41, 217-230.	3.1	12
40	Aerosol charging and capture in the nanoparticle size range (6â€“15nm) by direct photoionization and diffusion mechanisms. Journal of Applied Physics, 2007, 102, .	2.5	28
41	Experimental study of a new corona-based unipolar aerosol charger. Journal of Aerosol Science, 2007, 38, 775-792.	3.8	39
42	Investigation of compound jet electrospray: Particle encapsulation. Physics of Fluids, 2007, 19, 103303.	4.0	50
43	Experimental and Modeling Studies of the Stream-Wise Filter Vibration Effect on the Filtration Efficiency. Aerosol Science and Technology, 2006, 40, 389-395.	3.1	6
44	Technical Note: A New Deconvolution Scheme for the Retrieval of True DMA Transfer Function from Tandem DMA Data. Aerosol Science and Technology, 2006, 40, 1052-1057.	3.1	20
45	Performance of Nano-DMA Operated with Different Gases for Sheath and Aerosol Carrier Flows. Aerosol Science and Technology, 2005, 39, 931-940.	3.1	7
46	Experimental Study of a Nanoparticle Virtual Impactor. Journal of Nanoparticle Research, 2003, 5, 269-280.	1.9	16
47	Particle Transport at Low Pressure: Deposition in Bends of a Circular Cross-Section. Aerosol Science and Technology, 2003, 37, 770-779.	3.1	12
48	SIZE DISTRIBUTIONS OF 3â€“10 NM ATMOSPHERIC PARTICLES: IMPLICATIONS FOR NUCLEATION MECHANISMS. , 2003, , 79-102.		0
49	A Novel Method for Producing Spatially Uniform Aerosols in a Low Pressure Environment. Aerosol Science and Technology, 2002, 36, 145-153.	3.1	7
50	Use of Continuous Measurements of Integral Aerosol Parameters to Estimate Particle Surface Area. Aerosol Science and Technology, 2001, 34, 57-65.	3.1	60
51	Use of Continuous Measurements of Integral Aerosol Parameters to Estimate Particle Surface Area. Aerosol Science and Technology, 2001, 34, 57-65.	3.1	3
52	Title is missing!. Journal of Nanoparticle Research, 2000, 2, 43-52.	1.9	18
53	A Novel Approach for Introducing Bio-Materials Into Cells. Journal of Nanoparticle Research, 2000, 2, 133-139.	1.9	47
54	A High Efficiency, High Throughput Unipolar Aerosol Charger for Nanoparticles. Journal of Nanoparticle Research, 1999, 1, 115-126.	1.9	98

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55	Experimental Investigation of Scaling Laws for Electrospraying: Dielectric Constant Effect. Aerosol Science and Technology, 1997, 27, 367-380.	3.1	184
56	Optimization of Pleated Filter Designs Using a Finite-Element Numerical Model. Aerosol Science and Technology, 1995, 23, 579-590.	3.1	89
57	Numerical and experimental studies of particle deposition in a tube with a conical contractionâ€"Laminar flow regime. Journal of Aerosol Science, 1995, 26, 563-574.	3.8	32
58	Electrospraying of conducting liquids for monodisperse aerosol generation in the 4 nm to 1.8 Î¼m diameter range. Journal of Aerosol Science, 1995, 26, 963-977.	3.8	422