

# Da-Ren Chen

## List of Publications by Year in descending order

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58  
papers

2,146  
citations

361413

20  
h-index

223800

46  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospraying of conducting liquids for monodisperse aerosol generation in the 4 nm to 1.8 $\mu$ m diameter range. <i>Journal of Aerosol Science</i> , 1995, 26, 963-977.	3.8	422
2	Toxicity of nano- and micro-sized ZnO particles in human lung epithelial cells. <i>Journal of Nanoparticle Research</i> , 2009, 11, 25-39.	1.9	338
3	Experimental Investigation of Scaling Laws for Electrospraying: Dielectric Constant Effect. <i>Aerosol Science and Technology</i> , 1997, 27, 367-380.	3.1	184
4	Release profile characteristics of biodegradable-polymer-coated drug particles fabricated by dual-capillary electro-spray. <i>Journal of Controlled Release</i> , 2010, 145, 58-65.	9.9	137
5	A High Efficiency, High Throughput Unipolar Aerosol Charger for Nanoparticles. <i>Journal of Nanoparticle Research</i> , 1999, 1, 115-126.	1.9	98
6	Optimization of Pleated Filter Designs Using a Finite-Element Numerical Model. <i>Aerosol Science and Technology</i> , 1995, 23, 579-590.	3.1	89
7	Multidrug encapsulation by coaxial tri-capillary electro-spray. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 104-110.	5.0	81
8	Use of Continuous Measurements of Integral Aerosol Parameters to Estimate Particle Surface Area. <i>Aerosol Science and Technology</i> , 2001, 34, 57-65.	3.1	60
9	A nanoparticle dispersion method for <i>in vitro</i> and <i>in vivo</i> nanotoxicity study. <i>Nanotoxicology</i> , 2010, 4, 42-51.	3.0	59
10	Investigation of compound jet electro-spray: Particle encapsulation. <i>Physics of Fluids</i> , 2007, 19, 103303.	4.0	50
11	A Novel Approach for Introducing Bio-Materials Into Cells. <i>Journal of Nanoparticle Research</i> , 2000, 2, 133-139.	1.9	47
12	Effect of dust loading rate on the loading characteristics of high efficiency filter media. <i>Powder Technology</i> , 2016, 287, 20-28.	4.2	43
13	Experimental study of a new corona-based unipolar aerosol charger. <i>Journal of Aerosol Science</i> , 2007, 38, 775-792.	3.8	39
14	Numerical and experimental studies of particle deposition in a tube with a conical contraction in Laminar flow regime. <i>Journal of Aerosol Science</i> , 1995, 26, 563-574.	3.8	32
15	Facile synthesis of ZnO@ZIF core-shell nanofibers: crystal growth and gas adsorption. <i>CrystEngComm</i> , 2017, 19, 2445-2450.	2.6	30
16	Aerosol charging and capture in the nanoparticle size range (6-15nm) by direct photoionization and diffusion mechanisms. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	28
17	Use of an electrical aerosol detector (EAD) for nanoparticle size distribution measurement. <i>Journal of Nanoparticle Research</i> , 2009, 11, 111-120.	1.9	26
18	Performance study of a DC-corona-based particle charger for charge conditioning. <i>Journal of Aerosol Science</i> , 2011, 42, 87-99.	3.8	23

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19	A New Electrospray Aerosol Generator with High Particle Transmission Efficiency. <i>Aerosol Science and Technology</i> , 2011, 45, 1176-1183.	3.1	21
20	Technical Note: A New Deconvolution Scheme for the Retrieval of True DMA Transfer Function from Tandem DMA Data. <i>Aerosol Science and Technology</i> , 2006, 40, 1052-1057.	3.1	20
21	Development of a Multi-Stage Axial Flow Cyclone. <i>Aerosol Science and Technology</i> , 2010, 44, 253-261.	3.1	19
22	Title is missing!. <i>Journal of Nanoparticle Research</i> , 2000, 2, 43-52.	1.9	18
23	Operational Modes of Dual-capillary Electro spraying and the Formation of the Stable Compound Cone-jet Mod. <i>Aerosol and Air Quality Research</i> , 2008, 8, 218-232.	2.1	17
24	Experimental Study of a Nanoparticle Virtual Impactor. <i>Journal of Nanoparticle Research</i> , 2003, 5, 269-280.	1.9	16
25	Fundamental Study of a Miniaturized Disk-Type Electrostatic Aerosol Precipitator for a Personal Nanoparticle Sizer. <i>Aerosol Science and Technology</i> , 2008, 42, 505-512.	3.1	16
26	A miniature disk electrostatic aerosol classifier (mini-disk EAC) for personal nanoparticle sizers. <i>Journal of Aerosol Science</i> , 2009, 40, 982-992.	3.8	15
27	Performance study of a twin-head electro spray system. <i>Journal of Aerosol Science</i> , 2012, 52, 33-44.	3.8	13
28	An electro spray aerosol generator with X-ray photoionizer for particle charge reduction. <i>Journal of Aerosol Science</i> , 2014, 76, 148-162.	3.8	13
29	Electrohydrodynamic (EHD) jet printing with a circulating dual-channel nozzle. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 035013.	2.6	13
30	Vertical profile of aerosol number size distribution during a haze pollution episode in Hefei, China. <i>Science of the Total Environment</i> , 2022, 814, 152693.	8.0	13
31	Particle Transport at Low Pressure: Deposition in Bends of a Circular Cross-Section. <i>Aerosol Science and Technology</i> , 2003, 37, 770-779.	3.1	12
32	Development of a Multiple-Stage Differential Mobility Analyzer (MDMA). <i>Aerosol Science and Technology</i> , 2007, 41, 217-230.	3.1	12
33	A cost-effective differential mobility analyzer (cDMA) for multiple DMA column applications. <i>Journal of Aerosol Science</i> , 2011, 42, 462-473.	3.8	12
34	Experimental evaluation of miniature plate DMAs (mini-plate DMAs) for future ultrafine particle (UFP) sensor network. <i>Aerosol Science and Technology</i> , 2016, 50, 297-307.	3.1	12
35	In vitro release profiles of PLGA core-shell composite particles loaded with theophylline and budesonide. <i>International Journal of Pharmaceutics</i> , 2017, 528, 637-645.	5.2	11
36	Statistical theory of nanoparticle sensing using a whispering-gallery-mode resonator. <i>Physical Review A</i> , 2012, 85, .	2.5	10

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37	<i>In Situ</i> Quantitative Observation of Hygroscopic Growth of Single Nanoparticle Aerosol by Surface Plasmon Resonance Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 11062-11071.	6.5	10
38	Advanced testing method to evaluate the performance of respirator filter media. <i>Journal of Occupational and Environmental Hygiene</i> , 2016, 13, 750-758.	1.0	8
39	A Novel Method for Producing Spatially Uniform Aerosols in a Low Pressure Environment. <i>Aerosol Science and Technology</i> , 2002, 36, 145-153.	3.1	7
40	Performance of Nano-DMA Operated with Different Gases for Sheath and Aerosol Carrier Flows. <i>Aerosol Science and Technology</i> , 2005, 39, 931-940.	3.1	7
41	Development of a Compact Electrostatic Nanoparticle Sampler for Offline Aerosol Characterization. <i>Mapan - Journal of Metrology Society of India</i> , 2013, 28, 217-226.	1.5	7
42	Ink bridge control in the electrohydrodynamic printing with a coaxial nozzle. <i>Journal of Manufacturing Processes</i> , 2020, 60, 418-425.	5.9	7
43	Effect of relative humidity on the performance of five cost-effective PM sensors. <i>Aerosol Science and Technology</i> , 2021, 55, 957-974.	3.1	7
44	Experimental and Modeling Studies of the Stream-Wise Filter Vibration Effect on the Filtration Efficiency. <i>Aerosol Science and Technology</i> , 2006, 40, 389-395.	3.1	6
45	A Cylindrical Thermal Precipitator with a Particle Size-Selective Inlet. <i>Aerosol Science and Technology</i> , 2012, 46, 1227-1238.	3.1	6
46	Simulation-Based Design and Optimization of Rectangular Micro-Cantilever-Based Aerosols Mass Sensor. <i>Sensors</i> , 2020, 20, 626.	3.8	6
47	Maximizing the singly charged fraction of sub-micrometer particles using a unipolar charger. <i>Aerosol Science and Technology</i> , 2019, 53, 990-997.	3.1	5
48	Comparison Between the Theoretical and Experimental Performance of a Differential Mobility Analyzer with Three Monodisperse-Particle Outlets. <i>Aerosol Science and Technology</i> , 2013, 47, 406-416.	3.1	4
49	Use of Continuous Measurements of Integral Aerosol Parameters to Estimate Particle Surface Area. <i>Aerosol Science and Technology</i> , 2001, 34, 57-65.	3.1	3
50	Evaluation of Respirator Filter Media under Inhalation-only Conditions. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2681-2690.	2.1	3
51	Note: Electrohydrodynamic atomization of liquid sheet. <i>Review of Scientific Instruments</i> , 2011, 82, 026111.	1.3	2
52	Evaluation of twin-head electrospray nanoparticle disperser for nanotoxicity study. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	2
53	Performance evaluation of a circular electrical aerosol classifier (CirEAC). <i>Journal of Aerosol Science</i> , 2018, 118, 100-110.	3.8	2
54	Filter media performance under the oscillating flow condition. <i>Journal of Aerosol Science</i> , 2019, 132, 1-11.	3.8	2

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55	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
56	Effect of axial eccentricity on the performance of a cylindrical differential mobility classifier. Aerosol Science and Technology, 2019, 53, 735-748.	3.1	1
57	Effect of filtration pressure on the particle penetration efficiency of fibrous filter media. Separation and Purification Technology, 2021, 274, 119086.	7.9	1
58	SIZE DISTRIBUTIONS OF 3-10 NM ATMOSPHERIC PARTICLES: IMPLICATIONS FOR NUCLEATION MECHANISMS. , 2003, , 79-102.		0