

Jing Wang

List of Publications by Year in descending order

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220
papers

7,369
citations

69737

41
h-index

77775

74
g-index

224
all docs

224
docs citations

224
times ranked

9824
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Functional Plasmonic Photothermal Biosensors for Highly Accurate Severe Acute Respiratory Syndrome Coronavirus 2 Detection. <i>ACS Nano</i> , 2020, 14, 5268-5277.	15.3	888
2	Additive manufacturing of silica aerogels. <i>Nature</i> , 2020, 584, 387-392.	36.2	372
3	Flexible and Ultrathin Waterproof Cellular Membranes Based on High-Conjunction Metal-Wrapped Polymer Nanofibers for Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2020, 32, e1908496.	24.3	255
4	Global Survey of Antibiotic Resistance Genes in Air. <i>Environmental Science & Technology</i> , 2018, 52, 10975-10984.	10.5	247
5	Investigation of the figure of merit for filters with a single nanofiber layer on a substrate. <i>Journal of Aerosol Science</i> , 2008, 39, 323-334.	3.9	148
6	Effect of particle agglomeration in nanotoxicology. <i>Archives of Toxicology</i> , 2015, 89, 659-675.	4.3	130
7	Migration of a sphere in tube flow. <i>Journal of Fluid Mechanics</i> , 2005, 540, 109.	3.5	124
8	Release of Carbon Nanotubes from an Epoxy-Based Nanocomposite during an Abrasion Process. <i>Environmental Science & Technology</i> , 2012, 46, 7366-7372.	10.5	113
9	Power law correlations for sediment transport in pressure driven channel flows. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1269-1292.	3.4	112
10	Structural Property Effect of Nanoparticle Agglomerates on Particle Penetration through Fibrous Filter. <i>Aerosol Science and Technology</i> , 2009, 43, 344-355.	3.1	104
11	Bi-power law correlations for sediment transport in pressure driven channel flows. <i>International Journal of Multiphase Flow</i> , 2003, 29, 475-494.	3.4	103
12	Co-Release of Hexabromocyclododecane (HBCD) and Nano- and Microparticles from Thermal Cutting of Polystyrene Foams. <i>Environmental Science & Technology</i> , 2012, 46, 10990-10996.	10.5	98
13	Figure of Merit of Composite Filters with Micrometer and Nanometer Fibers. <i>Aerosol Science and Technology</i> , 2008, 42, 722-728.	3.1	96
14	Measurement of Aircraft Engine Non-Volatile PM Emissions: Results of the Aviation-Particle Regulatory Instrumentation Demonstration Experiment (A-PRIDE) 4 Campaign. <i>Aerosol Science and Technology</i> , 2015, 49, 472-484.	3.1	90
15	Infection Risk Assessment of COVID-19 through Aerosol Transmission: a Case Study of South China Seafood Market. <i>Environmental Science & Technology</i> , 2021, 55, 4123-4133.	10.5	90
16	Modeling of filtration efficiency of nanoparticles in standard filter media. <i>Journal of Nanoparticle Research</i> , 2006, 9, 109-115.	2.0	84
17	The dissipation approximation and viscous potential flow. <i>Journal of Fluid Mechanics</i> , 2004, 505, 365-377.	3.5	82
18	Effects of Fuel Aromatic Content on Nonvolatile Particulate Emissions of an In-Production Aircraft Gas Turbine. <i>Environmental Science & Technology</i> , 2015, 49, 13149-13157.	10.5	81

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19	Electrocatalytic Reduction of Gaseous CO ₂ to CO on Sn/Cu Nanofiber-Based Gas Diffusion Electrodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901514.	22.2	78
20	Release of Carbon Nanotubes from Polymer Nanocomposites. <i>Fibers</i> , 2014, 2, 108-127.	4.1	75
21	Modeling the flows of engineered nanomaterials during waste handling. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 251-259.	3.4	74
22	Carbon Nanotubes Released from an Epoxy-Based Nanocomposite: Quantification and Particle Toxicity. <i>Environmental Science & Technology</i> , 2015, 49, 10616-10623.	10.5	74
23	Electret mechanisms and kinetics of electrospun nanofiber membranes and lifetime in filtration applications in comparison with corona-charged membranes. <i>Journal of Membrane Science</i> , 2020, 600, 117879.	8.3	72
24	How can nanobiotechnology oversight advance science and industry: examples from environmental, health, and safety studies of nanoparticles (nano-EHS). <i>Journal of Nanoparticle Research</i> , 2011, 13, 1373-1387.	2.0	70
25	Vacancy-Rich and Porous NiFe-Layered Double Hydroxide Ultrathin Nanosheets for Efficient Photocatalytic NO Oxidation and Storage. <i>Environmental Science & Technology</i> , 2022, 56, 1771-1779.	10.5	68
26	Electron Microscopic Study of Soot Particulate Matter Emissions from Aircraft Turbine Engines. <i>Environmental Science & Technology</i> , 2014, 48, 10975-10983.	10.5	65
27	Determination of PM mass emissions from an aircraft turbine engine using particle effective density. <i>Atmospheric Environment</i> , 2014, 99, 500-507.	4.2	64
28	The effect of particle morphology on unipolar diffusion charging of nanoparticle agglomerates in the transition regime. <i>Journal of Aerosol Science</i> , 2010, 41, 975-986.	3.9	63
29	Removal of airborne nanoparticles by membrane coated filters. <i>Science of the Total Environment</i> , 2011, 409, 4868-4874.	8.2	62
30	Filtration of aerosol particles by elliptical fibers: a numerical study. <i>Journal of Nanoparticle Research</i> , 2009, 11, 185-196.	2.0	58
31	A number-based inventory of size-resolved black carbon particle emissions by global civil aviation. <i>Nature Communications</i> , 2019, 10, 534.	13.2	55
32	Dose-response Relation Deduced for Coronaviruses From Coronavirus Disease 2019, Severe Acute Respiratory Syndrome, and Middle East Respiratory Syndrome: Meta-analysis Results and its Application for Infection Risk Assessment of Aerosol Transmission. <i>Clinical Infectious Diseases</i> , 2021, 73, e241-e245.	5.7	55
33	Differing toxicity of ambient particulate matter (PM) in global cities. <i>Atmospheric Environment</i> , 2019, 212, 305-315.	4.2	54
34	Measurement of Nanoparticle Agglomerates by Combined Measurement of Electrical Mobility and Unipolar Charging Properties. <i>Aerosol Science and Technology</i> , 2010, 44, 97-108.	3.1	50
35	Evaluation of Regeneration Processes for Filtering Facepiece Respirators in Terms of the Bacteria Inactivation Efficiency and Influences on Filtration Performance. <i>ACS Nano</i> , 2020, 14, 13161-13171.	15.3	48
36	All-Nanofiber-Based Ultralight Stretchable Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>ACS Applied Energy Materials</i> , 2018, 1, 2326-2332.	5.3	47

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37	Thermoplasmonic-Assisted Cyclic Cleavage Amplification for Self-Validating Plasmonic Detection of SARS-CoV-2. <i>ACS Nano</i> , 2021, 15, 7536-7546.	15.3	47
38	Structural Properties and Filter Loading Characteristics of Soot Agglomerates. <i>Aerosol Science and Technology</i> , 2009, 43, 1033-1041.	3.1	46
39	Size-Resolved Endotoxin and Oxidative Potential of Ambient Particles in Beijing and Zürich. <i>Environmental Science & Technology</i> , 2018, 52, 6816-6824.	10.5	46
40	Response of real-time black carbon mass instruments to mini-CAST soot. <i>Aerosol Science and Technology</i> , 2016, 50, 906-918.	3.1	44
41	The antibacterial performance of positively charged and chitosan dipped air filter media. <i>Building and Environment</i> , 2020, 180, 107020.	7.0	43
42	Particle Emission Characteristics of a Gas Turbine with a Double Annular Combustor. <i>Aerosol Science and Technology</i> , 2015, 49, 842-855.	3.1	42
43	Structural properties of silver nanoparticle agglomerates based on transmission electron microscopy: relationship to particle mobility analysis. <i>Journal of Nanoparticle Research</i> , 2009, 11, 163-173.	2.0	41
44	Toward standardized test methods to determine the effectiveness of filtration media against airborne nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	2.0	39
45	Pressure corrections for potential flow analysis of capillary instability of viscous fluids. <i>Journal of Fluid Mechanics</i> , 2005, 522, 383-394.	3.5	38
46	Filtration performance and charge degradation during particle loading and reusability of charged PTFE needle felt filters. <i>Separation and Purification Technology</i> , 2020, 233, 116003.	8.1	38
47	Liquid repellency enhancement through flexible microstructures. <i>Science Advances</i> , 2020, 6, eaba9721.	10.9	38
48	Particle motion in a liquid film rimming the inside of a partially filled rotating cylinder. <i>Journal of Fluid Mechanics</i> , 2003, 496, 139-163.	3.5	37
49	Effective density and mass mobility exponents of particulate matter in aircraft turbine exhaust: Dependence on engine thrust and particle size. <i>Journal of Aerosol Science</i> , 2015, 88, 135-147.	3.9	37
50	Release and Gas-Particle Partitioning Behaviors of Short-Chain Chlorinated Paraffins (SCCPs) During the Thermal Treatment of Polyvinyl Chloride Flooring. <i>Environmental Science & Technology</i> , 2017, 51, 9005-9012.	10.5	37
51	Dispersion and filtration of carbon nanotubes (CNTs) and measurement of nanoparticle agglomerates in diesel exhaust. <i>Chemical Engineering Science</i> , 2013, 85, 69-76.	4.0	36
52	Assessment of Particle Pollution from Jetliners: from Smoke Visibility to Nanoparticle Counting. <i>Environmental Science & Technology</i> , 2017, 51, 3534-3541.	10.5	36
53	Impacts of Alternative Fuels on Morphological and Nanostructural Characteristics of Soot Emissions from an Aviation Piston Engine. <i>Environmental Science & Technology</i> , 2019, 53, 4667-4674.	10.5	36
54	Replicating the <i>Cynandra opis</i> Butterfly's Structural Color for Bioinspired Bigrating Color Filters. <i>Advanced Materials</i> , 2022, 34, e2109161.	24.3	36

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55	Evaluation of protection schemes for extreme ultraviolet lithography (EUVL) masks against topâ€“down aerosol flow. <i>Journal of Aerosol Science</i> , 2007, 38, 211-227.	3.9	35
56	Carbon Nanotube Penetration Through Fiberglass and Electret Respirator Filter and Nuclepore Filter Media: Experiments and Models. <i>Aerosol Science and Technology</i> , 2014, 48, 997-1008.	3.1	35
57	Physical and Chemical Characterization of Fly Ashes from Swiss Waste Incineration Plants and Determination of the Ash Fraction in the Nanometer Range. <i>Environmental Science & Technology</i> , 2014, 48, 4765-4773.	10.5	35
58	Weathering of a carbon nanotube/epoxy nanocomposite under UV light and in water bath: impact on abraded particles. <i>Nanoscale</i> , 2015, 7, 18524-18536.	5.8	35
59	Transformation of the released asbestos, carbon fibers and carbon nanotubes from composite materials and the changes of their potential health impacts. <i>Journal of Nanobiotechnology</i> , 2017, 15, 15.	9.3	35
60	Enhanced and synergistic catalytic activation by photoexcitation driven Sâ€“scheme heterojunction hydrogel interface electric field. <i>Nature Communications</i> , 2023, 14, .	13.2	35
61	Exposure to engineered nanoparticles: Model and measurements for accident situations in laboratories. <i>Science of the Total Environment</i> , 2012, 420, 119-126.	8.2	34
62	Chemical characterization of freshly emitted particulate matter from aircraft exhaust using single particle mass spectrometry. <i>Atmospheric Environment</i> , 2016, 134, 181-197.	4.2	34
63	Airborne Nanoparticle Release and Toxicological Risk from Metal-Oxide-Coated Textiles: Toward a Multiscale Safe-by-Design Approach. <i>Environmental Science & Technology</i> , 2017, 51, 9305-9317.	10.5	34
64	Effective Density and Mass-Mobility Exponent of Aircraft Turbine Particulate Matter. <i>Journal of Propulsion and Power</i> , 2015, 31, 573-582.	2.3	33
65	Effect of reverse flow by differential pressure on the protection of critical surfaces against particle contamination. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 1844.	1.3	32
66	Measurement of multi-wall carbon nanotube penetration through a screen filter and single-fiber analysis. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4565-4573.	2.0	32
67	Friction coefficient and mass of silver agglomerates in the transition regime. <i>Journal of Aerosol Science</i> , 2009, 40, 573-587.	3.9	31
68	Integrated Photocatalytic Filtration Array for Indoor Air Quality Control. <i>Environmental Science & Technology</i> , 2010, 44, 5558-5563.	10.5	31
69	The effect of dielectric constant of materials on unipolar diffusion charging of nanoparticles. <i>Journal of Aerosol Science</i> , 2009, 40, 463-468.	3.9	30
70	Carbon Nanotube Penetration through a Screen Filter: Numerical Modeling and Comparison with Experiments. <i>Aerosol Science and Technology</i> , 2011, 45, 443-452.	3.1	30
71	Organic dye removal by MnO ₂ and Ag micromotors under various ambient conditions: The comparison between two abatement mechanisms. <i>Chemosphere</i> , 2017, 184, 601-608.	8.4	29
72	Reinforced and superinsulating silica aerogel through in situ cross-linking with silane terminated prepolymers. <i>Acta Materialia</i> , 2018, 147, 322-328.	8.0	29

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73	High Curie temperature and carrier mobility of novel Fe, Co and Ni carbide MXenes. <i>Nanoscale</i> , 2020, 12, 11627-11637.	5.8	28
74	PET/TPU nanofiber composite filters with high interfacial adhesion strength based on one-step co-electrospinning. <i>Powder Technology</i> , 2021, 387, 136-145.	4.3	28
75	Self-supporting smart air filters based on PZT/PVDF electrospun nanofiber composite membrane. <i>Chemical Engineering Journal</i> , 2021, 423, 130247.	13.0	28
76	Microstructural and loading characteristics of diesel aggregate cakes. <i>Powder Technology</i> , 2013, 241, 244-251.	4.3	27
77	Effects of Combining Graphene Nanoplatelet and Phosphorous Flame Retardant as Additives on Mechanical Properties and Flame Retardancy of Epoxy Nanocomposite. <i>Polymers</i> , 2020, 12, 2349.	4.6	27
78	High-performance carbon/MnO ₂ micromotors and their applications for pollutant removal. <i>Chemosphere</i> , 2019, 219, 427-435.	8.4	26
79	Influence of Aviation Emission on the Particle Number Concentration near Zurich Airport. <i>Environmental Science & Technology</i> , 2020, 54, 14161-14171.	10.5	26
80	Stimuli-Responsive Microarray Films for Real-Time Sensing of Surrounding Media, Temperature, and Solution Properties via Diffraction Patterns. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19080-19091.	8.3	25
81	Dual-function surface hydrogen bonds enable robust O ₂ activation for deep photocatalytic toluene oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 319-331.	4.2	25
82	Classification of highly monodisperse nanoparticles of NIST-traceable sizes by TDMA and control of deposition spot size on a surface by electrophoresis. <i>Journal of Aerosol Science</i> , 2008, 39, 537-548.	3.9	24
83	Emission measurement and safety assessment for the production process of silicon nanoparticles in a pilot-scale facility. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	2.0	24
84	Use of Nuclepore filters for ambient and workplace nanoparticle exposure assessment—Spherical particles. <i>Atmospheric Environment</i> , 2013, 77, 385-393.	4.2	24
85	Filtration Performance Against Nanoparticles by Electrospun Nylon-6 Media Containing Ultrathin Nanofibers. <i>Aerosol Science and Technology</i> , 2014, 48, 1332-1344.	3.1	24
86	Investigation of surface potential discharge mechanism and kinetics in dielectrics exposed to different organic solvents. <i>Polymer</i> , 2018, 145, 447-453.	3.9	24
87	Release of graphene-related materials from epoxy-based composites: characterization, quantification and hazard assessment <i>in vitro</i> . <i>Nanoscale</i> , 2020, 12, 10703-10722.	5.8	24
88	Purely irrotational theories of the effect of the viscosity on the decay of free gravity waves. <i>Journal of Fluid Mechanics</i> , 2006, 559, 461.	3.5	23
89	Very low emissions of airborne particulate pollutants measured from two municipal solid waste incineration plants in Switzerland. <i>Atmospheric Environment</i> , 2017, 166, 99-109.	4.2	23
90	Simulation of performance of fibrous filter media composed of cellulose and synthetic fibers. <i>Cellulose</i> , 2019, 26, 7051-7065.	5.1	23

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91	3D-structured supports create complete data sets for electron crystallography. <i>Nature Communications</i> , 2019, 10, 3316.	13.2	23
92	Filtration performance and loading capacity of nano-structured composite filter media for applications with high soot concentrations. <i>Separation and Purification Technology</i> , 2019, 221, 175-182.	8.1	23
93	Quantitative modeling of the impact of facemasks and associated leakage on the airborne transmission of SARS-CoV-2. <i>Scientific Reports</i> , 2021, 11, 19403.	3.4	23
94	Regeneration of carbon nanotube saturated with tetracycline by microwave-ultraviolet system: Performance and degradation pathway. <i>Chemical Engineering Journal</i> , 2020, 394, 124752.	13.0	22
95	Rapid and sensitive multiplex detection of COVID-19 antigens and antibody using electrochemical immunosensor-/aptasensor-enabled biochips. <i>Chemical Communications</i> , 2022, 58, 7285-7288.	4.2	22
96	Measurement of Retention Efficiency of Filters against Nanoparticles in Liquids using an Aerosolization Technique. <i>Environmental Science & Technology</i> , 2010, 44, 774-779.	10.5	21
97	Exposure assessment of nanosized engineered agglomerates and aggregates using Nuclepore filter. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	2.0	21
98	Effects of Particle Size and Morphology on Filtration of Airborne Nanoparticles. <i>KONA Powder and Particle Journal</i> , 2013, 30, 256-266.	2.1	21
99	UV-Initiated Softâ€“Tough Multifunctional Gel Polymer Electrolyte Achieves Stable-Cycling Li-Metal Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 4513-4520.	5.3	21
100	Aerogel-based solar-powered water production from atmosphere and ocean: A review. <i>Materials Science and Engineering Reports</i> , 2023, 154, 100735.	32.1	21
101	Boundary-layer analysis for effects of viscosity of the irrotational flow on the flow induced by a rapidly rotating cylinder in a uniform stream. <i>Journal of Fluid Mechanics</i> , 2006, 557, 167.	3.5	20
102	Chemical composition and radiative properties of nascent particulate matter emitted by an aircraft turbofan burning conventional and alternative fuels. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6809-6820.	5.0	20
103	Developing a High-Resolution Emission Inventory of Chinaâ€™s Aviation Sector Using Real-World Flight Trajectory Data. <i>Environmental Science & Technology</i> , 2022, 56, 5743-5752.	10.5	20
104	Potential flow of a second-order fluid over a sphere or an ellipse. <i>Journal of Fluid Mechanics</i> , 2004, 511, 201-215.	3.5	19
105	Determination of Geometrical Length of Airborne Carbon Nanotubes by Electron Microscopy, Model Calculation, and Filtration Method. <i>Aerosol Science and Technology</i> , 2013, 47, 776-784.	3.1	19
106	Filtration performance of air filter paper containing kapok fibers against oil aerosols. <i>Cellulose</i> , 2018, 25, 6719-6729.	5.1	19
107	Measurement of Metal Nanoparticle Agglomerates Generated by Spark Discharge Using the Universal Nanoparticle Analyzer (UNPA). <i>Aerosol Science and Technology</i> , 2012, 46, 333-346.	3.1	18
108	Characteristics of airborne fractal-like agglomerates of carbon nanotubes. <i>Carbon</i> , 2015, 93, 441-450.	10.7	18

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109	Air path of antimicrobial resistance related genes from layer farms: Emission inventory, atmospheric transport, and human exposure. <i>Journal of Hazardous Materials</i> , 2022, 430, 128417.	12.6	18
110	Ambient PM Toxicity Is Correlated with Expression Levels of Specific MicroRNAs. <i>Environmental Science & Technology</i> , 2020, 54, 10227-10236.	10.5	17
111	Relationship between Aerosols Exposure and Lung Deposition Dose. <i>Aerosol and Air Quality Research</i> , 2020, 20, 1083-1093.	2.1	17
112	Pressure corrections for the effects of viscosity on the irrotational flow outside Prandtl's boundary layer. <i>Journal of Fluid Mechanics</i> , 2006, 557, 145.	3.5	16
113	Aerosol Emission Monitoring and Assessment of Potential Exposure to Multi-walled Carbon Nanotubes in the Manufacture of Polymer Nanocomposites. <i>Annals of Occupational Hygiene</i> , 2015, 59, 1135-1151.	1.9	16
114	Identification of secondary aerosol precursors emitted by an aircraft turbofan. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7379-7391.	5.0	16
115	High fidelity simulation of ultrafine PM filtration by multiscale fibrous media characterized by a combination of X-ray CT and FIB-SEM. <i>Journal of Membrane Science</i> , 2021, 620, 118925.	8.3	16
116	Propulsion Mechanisms of Light-Driven Plasmonic Colloidal Micromotors. <i>Advanced Photonics Research</i> , 2022, 3, 2100189.	3.8	16
117	Skin-like cryogel electronics from suppressed-freezing tuned polymer amorphization. <i>Nature Communications</i> , 2023, 14, .	13.2	16
118	Stress-induced cavitation for the streaming motion of a viscous liquid past a sphere. <i>Journal of Fluid Mechanics</i> , 2007, 578, 381-411.	3.5	15
119	Decomposition and particle release of a carbon nanotube/epoxy nanocomposite at elevated temperatures. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	2.0	15
120	Total Bioaerosol Detection by a Succinimidyl-Ester-Functionalized Plasmonic Biosensor To Reveal Different Characteristics at Three Locations in Switzerland. <i>Environmental Science & Technology</i> , 2020, 54, 1353-1362.	10.5	15
121	Optical-Switch-Enabled Microfluidics for Sensitive Multichannel Colorimetric Analysis. <i>Analytical Chemistry</i> , 2021, 93, 6784-6791.	6.8	15
122	Direct measurement of thermophoretic and photophoretic force acting on hot micromotors with optical tweezers. <i>Applied Surface Science</i> , 2021, 549, 149319.	6.3	15
123	Recent Development of Optofluidics for Imaging and Sensing Applications. <i>Chemosensors</i> , 2022, 10, 15.	3.7	15
124	A Human Novel Gene DERPCL1 Located on 16q22.1 Inhibits Prostate Tumor Cell Growth and Its Expression Is Decreased in Prostate and Renal Tumors. <i>Molecular Medicine</i> , 2002, 8, 655-663.	4.5	14
125	Measurement of filtration efficiency of Nuclepore filters challenged with polystyrene latex nanoparticles: experiments and modeling. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5415-5424.	2.0	14
126	Determination of the delivered dose of nanoparticles in the trachea-bronchial and alveolar regions of the lung. <i>NanoImpact</i> , 2019, 14, 100162.	4.7	14

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127	A Counter Propagating Lens-Mirror System for Ultrahigh Throughput Single Droplet Detection. <i>Small</i> , 2020, 16, e1907534.	11.2	14
128	Biomimetic Light-Driven Aerogel Passive Pump for Volatile Organic Pollutant Removal. <i>Advanced Science</i> , 2022, 9, e2105819.	12.4	14
129	SARS-CoV-2 and other airborne respiratory viruses in outdoor aerosols in three Swiss cities before and during the first wave of the COVID-19 pandemic. <i>Environment International</i> , 2022, 164, 107266.	10.1	14
130	Nanoparticle-laden tubeless and open siphons. <i>Journal of Fluid Mechanics</i> , 2004, 516, 335-348.	3.5	13
131	Chemical Composition of Nanoparticles Released from Thermal Cutting of Polystyrene Foams and the Associated Isomerization of Hexabromocyclododecane (HBCD) Diastereomers. <i>Aerosol and Air Quality Research</i> , 2014, 14, 1114-1120.	2.1	13
132	Effects of relative humidity and particle type on the performance and service life of automobile cabin air filters. <i>Aerosol Science and Technology</i> , 2016, 50, 542-554.	3.1	13
133	A reduction of settlement probability of <i>Chlorella vulgaris</i> on photo-chemically active ceramics with hierarchical nano-structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125898.	4.8	13
134	Inter-Laboratory Validation of the Method to Determine the Filtration Efficiency for Airborne Particles in the 3-500 nm Range and Results Sensitivity Analysis. <i>Aerosol and Air Quality Research</i> , 2017, 17, 2669-2680.	2.1	13
135	Mitigation effects of alternative aviation fuels on non-volatile particulate matter emissions from aircraft gas turbine engines: A review. <i>Science of the Total Environment</i> , 2022, 820, 153233.	8.2	13
136	Stability of a liquid jet into incompressible gases and liquids: Part 2. Effects of the irrotational viscous pressure. <i>International Journal of Multiphase Flow</i> , 2005, 31, 1134-1154.	3.4	12
137	Filtration behavior of silver nanoparticle agglomerates and effects of the agglomerate model in data analysis. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	2.0	12
138	Abundance and diversity of antibiotic resistance genes possibly released to ambient air by experiments in biology laboratories. <i>Science of the Total Environment</i> , 2021, 797, 149147.	8.2	12
139	Plasmonic O_2 dissociation and spillover expedite selective oxidation of primary C-H bonds. <i>Chemical Science</i> , 2021, 12, 15308-15317.	7.8	12
140	Effects of relative humidity on heterogeneous reaction of SO_2 with $CaCO_3$ particles and formation of $CaSO_4 \cdot 2H_2O$ crystal as secondary aerosol. <i>Atmospheric Environment</i> , 2022, 268, 118776.	4.2	12
141	Contributions of Traffic and Industrial Emission Reductions to the Air Quality Improvement after the Lockdown of Wuhan and Neighboring Cities Due to COVID-19. <i>Toxics</i> , 2021, 9, 358.	3.8	12
142	Lift forces on a cylindrical particle in plane Poiseuille flow of shear thinning fluids. <i>Physics of Fluids</i> , 2003, 15, 2267-2278.	3.9	11
143	Self-aligned 3D microlenses in a chip fabricated with two-photon stereolithography for highly sensitive absorbance measurement. <i>Lab on A Chip</i> , 2020, 20, 2334-2342.	6.1	11
144	Agglomeration potential of TiO_2 in synthetic leachates made from the fly ash of different incinerated wastes. <i>Environmental Pollution</i> , 2017, 223, 616-623.	7.7	10

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145	VISCOUS POTENTIAL FLOW ANALYSIS OF STRESS-INDUCED CAVITATION IN AN APERTURE FLOW. <i>Atomization and Sprays</i> , 2006, 16, 763-776.	0.8	10
146	Atmospheric dispersion of chemical, biological, and radiological hazardous pollutants: Informing risk assessment for public safety. <i>Journal of Safety Science and Resilience</i> , 2022, 3, 372-397.	2.3	10
147	Study of structural factors of structure-resolved filter media on the particle loading performance with microscale simulation. <i>Separation and Purification Technology</i> , 2023, 304, 122317.	8.1	10
148	Controlled Deposition of SiO_2 Nanoparticles of NIST-Traceable Particle Sizes for Mask Surface Inspection System Characterization. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2008, 21, 238-243.	2.0	9
149	Numerical modeling of nanoparticle penetration through personal protective garments. <i>Separation and Purification Technology</i> , 2012, 98, 230-239.	8.1	9
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