

Jae Hee Jung

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

2,172
citations

24
h-index

44
g-index

86
ext. papers

2,485
ext. citations

6.3
avg, IF

4.99
L-index

#	Paper	IF	Citations
83	Twenty-eight-day inhalation toxicity study of silver nanoparticles in Sprague-Dawley rats. <i>Inhalation Toxicology</i> , 2007 , 19, 857-71	2.7	333
82	Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1770-1780	9.5	225
81	Metal nanoparticle generation using a small ceramic heater with a local heating area. <i>Journal of Aerosol Science</i> , 2006 , 37, 1662-1670	4.3	160
80	Preparation of airborne Ag/CNT hybrid nanoparticles using an aerosol process and their application to antimicrobial air filtration. <i>Langmuir</i> , 2011 , 27, 10256-64	4	103
79	Herbal Extract Incorporated Nanofiber Fabricated by an Electrospinning Technique and its Application to Antimicrobial Air Filtration. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25313-20	9.5	83
78	Aerosolization of fungi, (1-->3)-beta-D glucan, and endotoxin from flood-affected materials collected in New Orleans homes. <i>Environmental Research</i> , 2009 , 109, 215-24	7.9	51
77	Thermal effects on bacterial bioaerosols in continuous air flow. <i>Science of the Total Environment</i> , 2009 , 407, 4723-30	10.2	49
76	Al-Coated Conductive Fibrous Filter with Low Pressure Drop for Efficient Electrostatic Capture of Ultrafine Particulate Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16495-16504	9.5	47
75	Washable antimicrobial polyester/aluminum air filter with a high capture efficiency and low pressure drop. <i>Journal of Hazardous Materials</i> , 2018 , 351, 29-37	12.8	46
74	Treatment of fungal bioaerosols by a high-temperature, short-time process in a continuous-flow system. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2742-9	4.8	45
73	Fast and continuous microorganism detection using aptamer-conjugated fluorescent nanoparticles on an optofluidic platform. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 303-8	11.8	43
72	Electrospun Magnetic Nanoparticle-Decorated Nanofiber Filter and Its Applications to High-Efficiency Air Filtration. <i>Environmental Science & Technology</i> , 2017 , 51, 11967-11975	10.3	40
71	Effect of hybrid UV-thermal energy stimuli on inactivation of <i>S. epidermidis</i> and <i>B. subtilis</i> bacterial bioaerosols. <i>Science of the Total Environment</i> , 2010 , 408, 5903-9	10.2	39
70	Antimicrobial nanoparticle-coated electrostatic air filter with high filtration efficiency and low pressure drop. <i>Science of the Total Environment</i> , 2015 , 533, 266-74	10.2	37
69	Antimicrobial Air Filtration Using Airborne <i>Sophora Flavescens</i> Natural-Product Nanoparticles. <i>Aerosol Science and Technology</i> , 2011 , 45, 1510-1518	3.4	35
68	Effect of relative humidity and variation of particle number size distribution on the inactivation effectiveness of airborne silver nanoparticles against bacteria bioaerosols deposited on a filter. <i>Journal of Aerosol Science</i> , 2010 , 41, 447-456	4.3	29
67	Long-term stability characteristics of metal nanoparticle generator using small ceramic heater for inhalation toxicity studies. <i>Inhalation Toxicology</i> , 2007 , 19, 745-51	2.7	28

66	Continuous aerosol size separator using inertial microfluidics and its application to airborne bacteria and viruses. <i>Lab on A Chip</i> , 2015 , 15, 1889-97	7.2	27
65	Development and evaluation of antimicrobial activated carbon fiber filters using <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2014 , 493, 291-7	10.2	27
64	Antimicrobial Air Filters Using Natural <i>Euscaphis japonica</i> Nanoparticles. <i>PLoS ONE</i> , 2015 , 10, e0126481	3.7	27
63	Bacterial Bioaerosol Concentrations in Public Restroom Environments. <i>Aerosol and Air Quality Research</i> , 2012 , 12, 251-255	4.6	26
62	Highly Enriched, Controllable, Continuous Aerosol Sampling Using Inertial Microfluidics and Its Application to Real-Time Detection of Airborne Bacteria. <i>ACS Sensors</i> , 2017 , 2, 513-521	9.2	25
61	Design and characterization of a fungal bioaerosol generator using multi-orifice air jets and a rotating substrate. <i>Journal of Aerosol Science</i> , 2009 , 40, 72-80	4.3	25
60	Real-time detection of an airborne microorganism using inertial impaction and mini-fluorescent microscopy. <i>Lab on A Chip</i> , 2014 , 14, 244-51	7.2	24
59	Generation of nonagglomerated airborne bacteriophage particles using an electrospray technique. <i>Analytical Chemistry</i> , 2009 , 81, 2985-90	7.8	24
58	Real-time bacterial microcolony counting using on-chip microscopy. <i>Scientific Reports</i> , 2016 , 6, 21473	4.9	24
57	Integrated micro-optofluidic platform for real-time detection of airborne microorganisms. <i>Scientific Reports</i> , 2015 , 5, 15983	4.9	23
56	Evaluation of a Silver Nanoparticle Generator Using a Small Ceramic Heater for Inactivation of <i>S. epidermidis</i> Bioaerosols. <i>Aerosol Science and Technology</i> , 2007 , 41, 786-793	3.4	23
55	Electrohydrodynamic nano-spraying of ethanolic natural plant extracts. <i>Journal of Aerosol Science</i> , 2011 , 42, 725-736	4.3	22
54	Electrospray-assisted ultraviolet aerodynamic particle sizer spectrometer for real-time characterization of bacterial particles. <i>Analytical Chemistry</i> , 2010 , 82, 664-71	7.8	22
53	Antimicrobial durability of air filters coated with airborne <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2013 , 444, 110-4	10.2	21
52	Microfluidic-integrated laser-controlled microactuators with on-chip microscopy imaging functionality. <i>Lab on A Chip</i> , 2014 , 14, 3781-9	7.2	19
51	Evaluation of filtration characteristics and microbial recovery rates of commercial filtering facepiece respirators against airborne bacterial particles. <i>Science of the Total Environment</i> , 2019 , 682, 729-736	10.2	18
50	Short-term effect of humid airflow on antimicrobial air filters using <i>Sophora flavescens</i> nanoparticles. <i>Science of the Total Environment</i> , 2012 , 421-422, 273-9	10.2	18
49	Numerical simulation of the deposition pattern in multiple electrohydrodynamic spraying. <i>Powder Technology</i> , 2010 , 198, 439-444	5.2	18

48	Use of electrosprayed <i>Sophora flavescens</i> natural-product nanoparticles for antimicrobial air filtration. <i>Journal of Aerosol Science</i> , 2013 , 57, 185-193	4.3	17
47	Application of UVAPS to real-time detection of inactivation of fungal bioaerosols due to thermal energy. <i>Journal of Aerosol Science</i> , 2010 , 41, 694-701	4.3	17
46	Development of an automated wet-cyclone system for rapid, continuous and enriched bioaerosol sampling and its application to real-time detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 284, 525-533	8.5	15
45	A new method for the real-time quantification of airborne biological particles using a coupled inertial aerosol system with in situ fluorescence imaging. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 635-641	8.5	15
44	Synthesis of hybrid carbon nanotube structures coated with nanoparticles and their application to antimicrobial air filtration. <i>Journal of Aerosol Science</i> , 2015 , 86, 44-54	4.3	14
43	The development of paper discs immobilized with luciferase/D-luciferin for the detection of ATP from airborne bacteria. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 274-281	8.5	14
42	Generation characteristics of fungal spore and fragment bioaerosols by airflow control over fungal cultures. <i>Journal of Aerosol Science</i> , 2010 , 41, 319-325	4.3	14
41	Fully integrated optofluidic SERS platform for real-time and continuous characterization of airborne microorganisms. <i>Biosensors and Bioelectronics</i> , 2020 , 169, 112611	11.8	14
40	Water-Repellent TiO-Organic Dye-Based Air Filters for Efficient Visible-Light-Activated Photochemical Inactivation against Bioaerosols. <i>Nano Letters</i> , 2021 , 21, 1576-1583	11.5	13
39	Continuous Surveillance of Bioaerosols On-Site Using an Automated Bioaerosol-Monitoring System. <i>ACS Sensors</i> , 2020 , 5, 395-403	9.2	12
38	Free-surface electrospray technique using a multi-hole array. <i>Journal of Aerosol Science</i> , 2013 , 55, 25-30	4.3	12
37	Real-time measurement of UV-inactivated <i>Escherichia coli</i> bacterial particles by electrospray-assisted UVAPS spectrometry. <i>Science of the Total Environment</i> , 2011 , 409, 3249-55	10.2	11
36	Distinguishing Biotic and Abiotic Particles Using an Ultraviolet Aerodynamic Particle Sizer for Real-Time Detection of Bacterial Bioaerosols. <i>Environmental Engineering Science</i> , 2012 , 29, 866-874	2	11
35	Comparison of filtration performance of commercially available automotive cabin air filters against various airborne pollutants. <i>Building and Environment</i> , 2019 , 161, 106272	6.5	10
34	Variation in the fluorescence intensity of thermally-exposed bacterial bioaerosols. <i>Journal of Aerosol Science</i> , 2013 , 65, 101-110	4.3	10
33	Size reduction of <i>Aspergillus versicolor</i> fungal bioaerosols during a thermal heating process in continuous-flow system. <i>Journal of Aerosol Science</i> , 2010 , 41, 602-610	4.3	10
32	Real-Time Fluorescence Measurement of Airborne Bacterial Particles Using an Aerosol Fluorescence Sensor with Dual Ultraviolet- and Visible-Fluorescence Channels. <i>Environmental Engineering Science</i> , 2012 , 29, 987-993	2	10
31	Characterization of calcium carbonate sorbent particle in furnace environment. <i>Science of the Total Environment</i> , 2012 , 429, 266-71	10.2	9

30	Effect of temperature on carbon nanoparticle collection efficiency using photoelectric ESP. <i>Science of the Total Environment</i> , 2009 , 407, 2136-41	10.2	9
29	In-Situ Gold Nanoparticle Generation Using a Small-Sized Ceramic Heater with a Local Heating Area. <i>Materials Science Forum</i> , 2007 , 544-545, 1001-1004	0.4	9
28	Novel electrostatic precipitator using unipolar soft X-ray charger for removing fine particles: Application to a dry de-NOX process. <i>Journal of Hazardous Materials</i> , 2016 , 303, 48-54	12.8	9
27	Effects of Surrounding Temperature on Antimicrobial Air Filters Coated with Sophora flavescens Nanoparticles. <i>Aerosol Science and Technology</i> , 2014 , 48, 324-332	3.4	8
26	Nanoparticle generation using corona discharge ions from a supersonic flow in low pressure. <i>Powder Technology</i> , 2008 , 185, 58-66	5.2	8
25	Aerosol Particle Size Distribution and Genetic Characteristics of Aerosolized Influenza A H1N1 Virus Vaccine Particles. <i>Aerosol and Air Quality Research</i> , 2011 , 11, 230-237	4.6	8
24	Effect of Treatment with a Natural Extract of Mukdenia Rossii (Oliv) Koidz and Unipolar Ion Emission on the Antibacterial Performance of Air Filters. <i>Aerosol and Air Quality Research</i> , 2013 , 13, 771-776	4.6	8
23	Antimicrobial Air Filter Fabrication Using a Continuous High-Throughput Aerosol-Based Process. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2059-2066	4.6	7
22	High-performance bag filter with a super-hydrophobic microporous polytetrafluoroethylene layer fabricated by air-assisted electro spraying. <i>Science of the Total Environment</i> , 2021 , 783, 147043	10.2	7
21	Evaluation Method for Spore Concentration Uniformity on a Fungal Substrate: Use of a Real-Time Aerosolization Technique. <i>Environmental Engineering Science</i> , 2009 , 26, 861-866	2	6
20	Evaluation of aerosolization characteristics of biocontaminated particles from flood-damaged housing materials. <i>Journal of Aerosol Science</i> , 2017 , 106, 93-99	4.3	4
19	Electrospray characterization based on an emitter of cone-shaped porous medium for the high-throughput microliter aerosol generation. <i>Applied Physics Letters</i> , 2017 , 111, 123504	3.4	4
18	Development of a Novel Electrostatic Precipitator System Using a Wet-Porous Electrode Array. <i>Aerosol Science and Technology</i> , 2015 , 49, 1100-1108	3.4	4
17	Aerosol-Processed Nanomaterials for Antimicrobial Air Filtration. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4487-92	1.3	4
16	In situ real-time measurement of physical characteristics of airborne bacterial particles. <i>Atmospheric Environment</i> , 2013 , 81, 609-615	5.3	4
15	Design and Characterization of an Improved Screw-Assisted Rotary Feeding System for Aerosolization of Ultra-Small Quantities of Particulate Solids. <i>Aerosol Science and Technology</i> , 2010 , 44, 563-569	3.4	4
14	In-Situ Characterization of Metal Nanopowders Manufactured by the Wire Electrical Explosion Process. <i>Aerosol Science and Technology</i> , 2010 , 44, 1131-1139	3.4	4
13	Oxidation characteristics of airborne carbon nanoparticles by NO(2). <i>Science of the Total Environment</i> , 2008 , 405, 396-401	10.2	4

12	Effects of Electric Field Strength on an Antimicrobial Air Filter. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 1028-1037	4.6	4
11	Evaluation of survival rates of airborne microorganisms on the filter layers of commercial face masks. <i>Indoor Air</i> , 2021 , 31, 1134-1143	5.4	4
10	Enriched Aerosol-to-Hydrosol Transfer for Rapid and Continuous Monitoring of Bioaerosols. <i>Nano Letters</i> , 2021 , 21, 1017-1024	11.5	4
9	Preparation of monolithic $\text{Cu}(\text{In}_{0.7}\text{Ga}_{0.3})\text{Se}_2$ nanopowders and subsequent fabrication of sintered CIGS films. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6042-51	1.3	3
8	Emission of particulate and gaseous pollutants from household laser processing machine. <i>Journal of Environmental Sciences</i> , 2021 , 103, 148-156	6.4	3
7	Photobiocidal-triboelectric nanolayer coating of photosensitizer/silica-alumina for reusable and visible-light-driven antibacterial/antiviral air filters.. <i>Chemical Engineering Journal</i> , 2022 , 135830	14.7	3
6	Effects of Antimicrobial Air Filters on the Viability and Culturability of Airborne Bacteria. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 1268-1277	1.6	2
5	Effects of Air Purifiers on the Spread of Simulated Respiratory Droplet Nuclei and Virus Aggregates. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
4	Effects of corona discharge ions on the synthesis of silver nanoparticles by a supersonic nozzle expansion method. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 169		1
3	Comparison of the service life of an automotive cabin air filter under dust loading conditions of the laboratory environment and on-road driving. <i>Journal of Aerosol Science</i> , 2022 , 105972	4.3	1
2	Effect of cigarette smoke on the lifetime of electret air filters. <i>Science of the Total Environment</i> , 2022 , 807, 150754	10.2	0
1	Mini-laser based submicron aerosol generator for the simple and stable simulation of combustion particulate matter. <i>Science of the Total Environment</i> , 2021 , 151830	10.2	