

Heejung S Jung

List of Publications by Year in descending order

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74
papers

3,272
citations

168829

31
h-index

190340

53
g-index

80
all docs

80
docs citations

80
times ranked

4672
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of harbor craft activities for emission inventory calculation. Journal of the Air and Waste Management Association, 2022, 72, 202-209.	0.9	2
2	In-use Emission Measurements from Two High-Speed Passenger Ferries Operating in California with Tier 2 and Tier 3 Marine Diesel Engines. Emission Control Science and Technology, 2022, 8, 109-121.	0.8	1
3	Environmentally Persistent Free Radicals, Reactive Oxygen Species Generation, and Oxidative Potential of Highway PM _{2.5} . ACS Earth and Space Chemistry, 2021, 5, 1865-1875.	1.2	28
4	Real-world particle and NO _x emissions from hybrid electric vehicles under cold weather conditions. Environmental Pollution, 2021, 286, 117320.	3.7	11
5	Application of a Diffusion Charger to Quantify Real-Time Particle Emissions from Light-Duty Vehicles: a Comparison Study with a Particle Size Spectrometer. Emission Control Science and Technology, 2021, 7, 41-55.	0.8	1
6	Behavior of carbon monoxide, nitrogen oxides, and ozone in a vehicle cabin with a passenger. Environmental Sciences: Processes and Impacts, 2021, 23, 302-310.	1.7	2
7	Correlations of PM metrics with human respiratory system deposited PM mass determined from ambient particle size distributions and effective densities. Aerosol Science and Technology, 2020, 54, 262-276.	1.5	3
8	On-road gaseous and particulate emissions from GDI vehicles with and without gasoline particulate filters (GPFs) using portable emissions measurement systems (PEMS). Science of the Total Environment, 2020, 710, 136366.	3.9	36
9	Compositional data analysis of smoke emissions from debris piles with low-density polyethylene. Journal of the Air and Waste Management Association, 2020, 70, 834-845.	0.9	10
10	Analyzing Wildland Fire Smoke Emissions Data Using Compositional Data Techniques. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032128.	1.2	11
11	Impacts of Exhaust Transfer System Contamination on Particulate Matter Measurements. Emission Control Science and Technology, 2020, 6, 163-177.	0.8	10
12	Fuel Economy of Plug-In Hybrid Electric and Hybrid Electric Vehicles: Effects of Vehicle Weight, Hybridization Ratio and Ambient Temperature. World Electric Vehicle Journal, 2020, 11, 31.	1.6	20
13	Complex refractive index, single scattering albedo, and mass absorption coefficient of secondary organic aerosols generated from oxidation of biogenic and anthropogenic precursors. Aerosol Science and Technology, 2019, 53, 449-463.	1.5	15
14	How do particle number, surface area, and mass correlate with toxicity of diesel particle emissions as measured in chemical and cellular assays?. Chemosphere, 2019, 229, 559-569.	4.2	12
15	Flame Synthesis of Nanomaterials. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 213-227.	0.1	0
16	Sources of variance in BC mass measurements from a small marine engine: Influence of the instruments, fuels and loads. Atmospheric Environment, 2018, 182, 128-137.	1.9	20
17	Very low particle matter mass measurements from light-duty vehicles. Journal of Aerosol Science, 2018, 117, 1-10.	1.8	9
18	Uncertainty in Gravimetric Analysis Required for LEV III Light-Duty Vehicle PM Emission Measurements. SAE International Journal of Engines, 2018, 11, 349-362.	0.4	1

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19	Scaling Trends of Electric Vehicle Performance: Driving Range, Fuel Economy, Peak Power Output, and Temperature Effect. <i>World Electric Vehicle Journal</i> , 2018, 9, 46.	1.6	30
20	Evaluation of Partial Flow Dilution Systems for Very Low PM Mass Measurements. <i>Emission Control Science and Technology</i> , 2018, 4, 247-259.	0.8	6
21	Reducing Mobile Air Conditioner (MAC) Power Consumption Using Active Cabin-Air-Recirculation in A Plug-In Hybrid Electric Vehicle (PHEV). <i>World Electric Vehicle Journal</i> , 2018, 9, 51.	1.6	26
22	Investigation of ambient aerosol effective density with and without using a catalytic stripper. <i>Atmospheric Environment</i> , 2018, 187, 84-92.	1.9	10
23	In-situ analysis of the gas- and particle-phase in cigarette smoke by chemical ionization TOF-MS. <i>Journal of Aerosol Science</i> , 2017, 106, 132-141.	1.8	7
24	Simultaneously reducing CO ₂ and particulate exposures via fractional recirculation of vehicle cabin air. <i>Atmospheric Environment</i> , 2017, 160, 77-88.	1.9	38
25	Investigation of alternative metrics to quantify PM mass emissions from light duty vehicles. <i>Journal of Aerosol Science</i> , 2017, 113, 85-94.	1.8	11
26	Development of a fuel sensor technology for a Variable-blend Natural Gas Vehicle. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 149-155.	2.1	10
27	Using a new inversion matrix for a fast-sizing spectrometer and a photo-acoustic instrument to determine suspended particulate mass over a transient cycle for light-duty vehicles. <i>Aerosol Science and Technology</i> , 2016, 50, 1227-1238.	1.5	12
28	Alternative metrics for spatially and temporally resolved ambient particle monitoring. <i>Journal of Aerosol Science</i> , 2016, 102, 96-104.	1.8	7
29	PM _{2.5} and ultrafine particulate matter emissions from natural gas-fired turbine for power generation. <i>Atmospheric Environment</i> , 2016, 131, 141-149.	1.9	28
30	Improvement of Engine Exhaust Particle Sizer (EEPS) size distribution measurement – II. Engine exhaust particles. <i>Journal of Aerosol Science</i> , 2016, 92, 83-94.	1.8	67
31	Mobility size and mass of nascent soot particles in a benchmark premixed ethylene flame. <i>Combustion and Flame</i> , 2015, 162, 3810-3822.	2.8	118
32	Particle effective density and mass during steady-state operation of GDI, PFI, and diesel passenger cars. <i>Journal of Aerosol Science</i> , 2015, 83, 39-54.	1.8	65
33	Measuring Particulate Emissions of Light Duty Passenger Vehicles Using Integrated Particle Size Distribution (IPSD). <i>Environmental Science & Technology</i> , 2015, 49, 5618-5627.	4.6	25
34	The impact of ethanol and iso-butanol blends on gaseous and particulate emissions from two passenger cars equipped with spray-guided and wall-guided direct injection SI (spark ignition) engines. <i>Energy</i> , 2015, 82, 168-179.	4.5	70
35	Comparison of Vehicle Exhaust Particle Size Distributions Measured by SMPS and EEPS During Steady-State Conditions. <i>Aerosol Science and Technology</i> , 2015, 49, 984-996.	1.5	45
36	Characterizing emissions and optical properties of particulate matter from PFI and GDI light-duty gasoline vehicles. <i>Journal of Aerosol Science</i> , 2015, 90, 144-153.	1.8	48

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37	Evaluating Particulate Emissions from a Flexible Fuel Vehicle with Direct Injection when Operated on Ethanol and Iso-butanol Blends. , 2014, , .		7
38	Assessing the Impacts of Ethanol and Isobutanol on Gaseous and Particulate Emissions from Flexible Fuel Vehicles. Environmental Science & Technology, 2014, 48, 14016-14024.	4.6	46
39	Nitridation and Layered Assembly of Hollow TiO ₂ Shells for Electrochemical Energy Storage. Advanced Functional Materials, 2014, 24, 848-856.	7.8	100
40	Comparison of Particle Mass and Solid Particle Number (SPN) Emissions from a Heavy-Duty Diesel Vehicle under On-Road Driving Conditions and a Standard Testing Cycle. Environmental Science & Technology, 2014, 48, 1779-1786.	4.6	25
41	Effect of low-density polyethylene on smoke emissions from burning of simulated debris piles. Journal of the Air and Waste Management Association, 2014, 64, 690-703.	0.9	12
42	Porous TiO ₂ /C Nanocomposite Shells As a High-Performance Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 6478-6483.	4.0	119
43	Carbon nanotubes among diesel exhaust particles: real samples or contaminants?. Journal of the Air and Waste Management Association, 2013, 63, 1199-1204.	0.9	35
44	Laboratory characterization of PM emissions from combustion of wildland biomass fuels. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9914-9929.	1.2	70
45	Modeling CO2 Concentrations in Vehicle Cabin. , 2013, , .		29
46	Nature of Sub-23-nm Particles Downstream of the European Particle Measurement Programme (PMP)-Compliant System: A Real-Time Data Perspective. Aerosol Science and Technology, 2012, 46, 886-896.	1.5	39
47	The Effects of Mainstream and Sidestream Environmental Tobacco Smoke Composition for Enhanced Condensational Droplet Growth by Water Vapor. Aerosol Science and Technology, 2012, 46, 760-766.	1.5	13
48	Impacts of ethanol fuel level on emissions of regulated and unregulated pollutants from a fleet of gasoline light-duty vehicles. Fuel, 2012, 93, 549-558.	3.4	113
49	Characterization of PM-PEMS for in-use measurements conducted during validation testing for the PM-PEMS measurement allowance program. Atmospheric Environment, 2012, 55, 311-318.	1.9	32
50	Quantifying In-Use PM Measurements for Heavy Duty Diesel Vehicles. Environmental Science & Technology, 2011, 45, 6073-6079.	4.6	36
51	Investigation of solid particle number measurement: Existence and nature of sub-23nm particles under PMP methodology. Journal of Aerosol Science, 2011, 42, 883-897.	1.8	69
52	Interpretation of Secondary Organic Aerosol Formation from Diesel Exhaust Photooxidation in an Environmental Chamber. Aerosol Science and Technology, 2011, 45, 964-972.	1.5	57
53	Impact of the Versatile Aerosol Concentration Enrichment System (VACES) on Gas Phase Species. Aerosol Science and Technology, 2010, 44, 1113-1121.	1.5	17
54	Particle size distributions from laboratory-scale biomass fires using fast response instruments. Atmospheric Chemistry and Physics, 2010, 10, 8065-8076.	1.9	86

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55	Kinetics of Soot Oxidation by NO ₂ . Environmental Science & Technology, 2010, 44, 4796-4801.	4.6	43
56	Characterization of a method for aerosol generation from heavy fuel oil (HFO) as an alternative to emissions from ship diesel engines. Journal of Aerosol Science, 2010, 41, 1143-1151.	1.8	9
57	Modeling Oxidation of Soot Particles Within a Laminar Aerosol Flow Reactor Using Computational Fluid Dynamics. Aerosol Science and Technology, 2009, 43, 1218-1229.	1.5	5
58	Evaluation of the European PMP Methodologies during On-Road and Chassis Dynamometer Testing for DPF Equipped Heavy-Duty Diesel Vehicles. Aerosol Science and Technology, 2009, 43, 962-969.	1.5	48
59	Comprehensive Simultaneous Shipboard and Airborne Characterization of Exhaust from a Modern Container Ship at Sea. Environmental Science & Technology, 2009, 43, 4626-4640.	4.6	192
60	Effect of cerium oxide nanoparticles on inflammation in vascular endothelial cells. Inhalation Toxicology, 2009, 21, 123-130.	0.8	84
61	Investigation of Diesel Nanoparticle Nucleation Mechanisms. Aerosol Science and Technology, 2008, 42, 335-342.	1.5	18
62	Characteristics of SME Biodiesel-Fueled Diesel Particle Emissions and the Kinetics of Oxidation. Environmental Science & Technology, 2006, 40, 4949-4955.	4.6	166
63	Quantitative measurements of the generation of hydroxyl radicals by soot particles in a surrogate lung fluid. Atmospheric Environment, 2006, 40, 1043-1052.	1.9	74
64	Characterization of Aerosol Surface Instruments in Transition Regime. Aerosol Science and Technology, 2005, 39, 902-911.	1.5	101
65	The influence of a cerium additive on ultrafine diesel particle emissions and kinetics of oxidation. Combustion and Flame, 2005, 142, 276-288.	2.8	267
66	Measurement of Electrical Charge on Diesel Particles. Aerosol Science and Technology, 2005, 39, 1129-1135.	1.5	38
67	Kinetics and visualization of soot oxidation using transmission electron microscopy. Combustion and Flame, 2004, 136, 445-456.	2.8	85
68	Kinetics of Diesel Nanoparticle Oxidation. Environmental Science & Technology, 2003, 37, 1949-1954.	4.6	67
69	Size-Selected Nanoparticle Chemistry: Kinetics of Soot Oxidation. Journal of Physical Chemistry A, 2002, 106, 96-103.	1.1	121
70	The Influence of Engine Lubricating Oil on Diesel Nanoparticle Emissions and Kinetics of Oxidation. , 0, , .		51
71	Vehicle Cabin Air Quality with Fractional Air Recirculation. , 0, , .		31
72	Determination of Suspended Exhaust PM Mass for Light-Duty Vehicles. , 0, , .		20

#	ARTICLE	IF	CITATIONS
73	Regulated Emissions, Air Toxics, and Particle Emissions from SI-DI Light-Duty Vehicles Operating on Different Iso-Butanol and Ethanol Blends. SAE International Journal of Fuels and Lubricants, 0, 7, 183-199.	0.2	21
74	Development of a Standard Testing Method for Vehicle Cabin Air Quality Index. SAE International Journal of Commercial Vehicles, 0, 12, .	0.4	10