

Paul Davidovits

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

3,372
citations

471509

17
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

3341
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 1: Theory. <i>Aerosol Science and Technology</i> , 2004, 38, 1185-1205.	3.1	811
2	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	801
3	Mass Accommodation and Chemical Reactions at Gas-Liquid Interfaces. <i>Chemical Reviews</i> , 2006, 106, 1323-1354.	47.7	243
4	Soot Particle Studies—Instrument Inter-Comparison—Project Overview. <i>Aerosol Science and Technology</i> , 2010, 44, 592-611.	3.1	228
5	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 2: Application to Combustion-Generated Soot Aerosols as a Function of Fuel Equivalence Ratio. <i>Aerosol Science and Technology</i> , 2004, 38, 1206-1222.	3.1	212
6	Laboratory and Ambient Particle Density Determinations using Light Scattering in Conjunction with Aerosol Mass Spectrometry. <i>Aerosol Science and Technology</i> , 2007, 41, 343-359.	3.1	208
7	Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lens Nozzle System. <i>Aerosol Science and Technology</i> , 2004, 38, 619-638.	3.1	143
8	The deposition ice nucleation and immersion freezing potential of amorphous secondary organic aerosol: Pathways for ice and mixed-phase cloud formation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
9	Adsorptive uptake of water by semisolid secondary organic aerosols. <i>Geophysical Research Letters</i> , 2015, 42, 3063-3068.	4.0	139
10	Measurements of Morphology Changes of Fractal Soot Particles using Coating and Denuding Experiments: Implications for Optical Absorption and Atmospheric Lifetime. <i>Aerosol Science and Technology</i> , 2007, 41, 734-750.	3.1	92
11	Absorption Enhancement of Coated Absorbing Aerosols: Validation of the Photo-Acoustic Technique for Measuring the Enhancement. <i>Aerosol Science and Technology</i> , 2009, 43, 1006-1012.	3.1	91
12	Radiative absorption enhancements by black carbon controlled by particle-to-particle heterogeneity in composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5196-5203.	7.1	84
13	Update 1 of: Mass Accommodation and Chemical Reactions at Gas-Liquid Interfaces. <i>Chemical Reviews</i> , 2011, 111, PR76-109.	47.7	61
14	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 12366-12378.	10.0	37
15	Investigation of Refractory Black Carbon-Containing Particle Morphologies Using the Single-Particle Soot Photometer (SP2). <i>Aerosol Science and Technology</i> , 2015, 49, 872-885.	3.1	25
16	Studies of chemiluminescence in boron atom reactions with O ₂ , SO ₂ , N ₂ O, NO ₂ , and H ₂ O ₂ . <i>Journal of Chemical Physics</i> , 1981, 75, 1746-1751.	3.0	22
17	Formation of refractory black carbon by SP2-induced charring of organic aerosol. <i>Aerosol Science and Technology</i> , 2018, 52, 1345-1350.	3.1	20
18	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. <i>Atmosphere</i> , 2017, 8, 166.	2.3	14

#	ARTICLE	IF	CITATIONS
19	Mixing state evolution of agglomerating particles in an aerosol chamber: Comparison of measurements and particle-resolved simulations. <i>Aerosol Science and Technology</i> , 2019, 53, 1229-1243.	3.1	2
20	The spectroscopy and dynamics of microparticles. <i>Faraday Discussions</i> , 2008, 137, 425-430.	3.2	0