

# Paul Davidovits

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

3,372  
citations

471061

17  
h-index

794141

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.	1.5	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.	23.0	243
4	Soot Particle Studies—Instrument Inter-Comparison—Project Overview. <i>Aerosol Science and Technology</i> , 2010, 44, 592-611.	1.5	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.	1.5	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.	1.5	208
7	Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lens-System. <i>Aerosol Science and Technology</i> , 2004, 38, 619-638.	1.5	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.	1.5	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.	1.5	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.	1.5	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.	3.3	84
13	Update 1 of: Mass Accommodation and Chemical Reactions at Gas-Liquid Interfaces. <i>Chemical Reviews</i> , 2011, 111, PR76-109.	23.0	61
14	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12366-12378.	4.6	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.	1.5	25
16	Studies of chemiluminescence in boron atom reactions with O <sub>2</sub> , SO <sub>2</sub> , N <sub>2</sub> O, NO <sub>2</sub> , and H <sub>2</sub> O <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1981, 75, 1746-1751.	1.2	22
17	Formation of refractory black carbon by SP2-induced charring of organic aerosol. <i>Aerosol Science and Technology</i> , 2018, 52, 1345-1350.	1.5	20
18	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. <i>Atmosphere</i> , 2017, 8, 166.	1.0	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.	1.5	2
20	The spectroscopy and dynamics of microparticles. <i>Faraday Discussions</i> , 2008, 137, 425-430.	1.6	0