

# 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	Radiative absorption enhancements by black carbon controlled by particle-to-particle heterogeneity in composition. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5196-5203.	7.1	84
2	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. Environmental Science & Technology, 2019, 53, 12366-12378.	10.0	37
3	Mixing state evolution of agglomerating particles in an aerosol chamber: Comparison of measurements and particle-resolved simulations. Aerosol Science and Technology, 2019, 53, 1229-1243.	3.1	2
4	Formation of refractory black carbon by SP2-induced charring of organic aerosol. Aerosol Science and Technology, 2018, 52, 1345-1350.	3.1	20
5	Effect of Thermodenuding on the Structure of Nascent Flame Soot Aggregates. Atmosphere, 2017, 8, 166.	2.3	14
6	Adsorptive uptake of water by semisolid secondary organic aerosols. Geophysical Research Letters, 2015, 42, 3063-3068.	4.0	139
7	Investigation of Refractory Black Carbon-Containing Particle Morphologies Using the Single-Particle Soot Photometer (SP2). Aerosol Science and Technology, 2015, 49, 872-885.	3.1	25
8	The deposition ice nucleation and immersion freezing potential of amorphous secondary organic aerosol: Pathways for ice and mixed-phase cloud formation. Journal of Geophysical Research, 2012, 117, .	3.3	139
9	Update 1 of: Mass Accommodation and Chemical Reactions at Gas-Liquid Interfaces. Chemical Reviews, 2011, 111, PR76-109.	47.7	61
10	Soot Particle Studies Instrument Inter-Comparison Project Overview. Aerosol Science and Technology, 2010, 44, 592-611.	3.1	228
11	Absorption Enhancement of Coated Absorbing Aerosols: Validation of the Photo-Acoustic Technique for Measuring the Enhancement. Aerosol Science and Technology, 2009, 43, 1006-1012.	3.1	91
12	The spectroscopy and dynamics of microparticles. Faraday Discussions, 2008, 137, 425-430.	3.2	0
13	Measurements of Morphology Changes of Fractal Soot Particles using Coating and Denuding Experiments: Implications for Optical Absorption and Atmospheric Lifetime. Aerosol Science and Technology, 2007, 41, 734-750.	3.1	92
14	Laboratory and Ambient Particle Density Determinations using Light Scattering in Conjunction with Aerosol Mass Spectrometry. Aerosol Science and Technology, 2007, 41, 343-359.	3.1	208
15	Mass Accommodation and Chemical Reactions at Gas-Liquid Interfaces. Chemical Reviews, 2006, 106, 1323-1354.	47.7	243
16	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. Aerosol Science and Technology, 2004, 38, 1206-1222.	3.1	212
17	Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lens Nozzle System. Aerosol Science and Technology, 2004, 38, 619-638.	3.1	143
18	Particle Morphology and Density Characterization by Combined Mobility and Aerodynamic Diameter Measurements. Part 1: Theory. Aerosol Science and Technology, 2004, 38, 1185-1205.	3.1	811

#	ARTICLE	IF	CITATIONS
19	Ambient aerosol sampling using the Aerodyne Aerosol Mass Spectrometer. Journal of Geophysical Research, 2003, 108, .	3.3	801
20	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> . Journal of Chemical Physics, 1981, 75, 1746-1751.	3.0	22