

David Brus

List of Publications by Year in descending order

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46
papers

2,065
citations

304368

22
h-index

253896

43
g-index

79
all docs

79
docs citations

79
times ranked

2621
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Sulfuric Acid in Atmospheric Nucleation. <i>Science</i> , 2010, 327, 1243-1246.	6.0	694
2	Atmospheric nucleation: highlights of the EUCAARI project and future directions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10829-10848.	1.9	144
3	Effect of ions on sulfuric acid-water binary particle formation: 2. Experimental data and comparison with QC-normalized classical nucleation theory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1752-1775.	1.2	99
4	Aerosol size distribution seasonal characteristics measured in Tiksi, Russian Arctic. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1271-1287.	1.9	97
5	Intercomparison of Small Unmanned Aircraft System (sUAS) Measurements for Atmospheric Science during the LAPSE-RATE Campaign. <i>Sensors</i> , 2019, 19, 2179.	2.1	88
6	BAECC: A Field Campaign to Elucidate the Impact of Biogenic Aerosols on Clouds and Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1909-1928.	1.7	71
7	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12211-12229.	1.9	58
8	Black carbon concentrations and mixing state in the Finnish Arctic. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10057-10070.	1.9	51
9	Unraveling the "Pressure Effect" in Nucleation. <i>Physical Review Letters</i> , 2008, 101, 125703.	2.9	47
10	Homogenous nucleation of sulfuric acid and water at close to atmospherically relevant conditions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5277-5287.	1.9	44
11	Homogeneous nucleation rate measurements in supersaturated water vapor. <i>Journal of Chemical Physics</i> , 2008, 129, 174501.	1.2	43
12	Homogeneous nucleation rate measurements of 1-butanol in helium: A comparative study of a thermal diffusion cloud chamber and a laminar flow diffusion chamber. <i>Journal of Chemical Physics</i> , 2005, 122, 214506.	1.2	39
13	Effect of the summer monsoon on aerosols at two measurement stations in Northern India " Part 2: Physical and optical properties. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8283-8294.	1.9	38
14	Development of Community, Capabilities, and Understanding through Unmanned Aircraft-Based Atmospheric Research: The LAPSE-RATE Campaign. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E684-E699.	1.7	38
15	Homogeneous nucleation rate measurements of 1-propanol in helium: The effect of carrier gas pressure. <i>Journal of Chemical Physics</i> , 2006, 124, 164306.	1.2	37
16	Size-selected black carbon mass distributions and mixing state in polluted and clean environments of northern India. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 371-383.	1.9	35
17	Effect of ions on sulfuric acid-water binary particle formation: 1. Theory for kinetic and nucleation-type particle formation and atmospheric implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1736-1751.	1.2	34
18	Homogeneous water nucleation in a laminar flow diffusion chamber. <i>Journal of Chemical Physics</i> , 2010, 132, 244505.	1.2	33

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19	Homogeneous nucleation rate measurements in supersaturated water vapor II. <i>Journal of Chemical Physics</i> , 2009, 131, 074507.	1.2	31
20	Effect of the summer monsoon on aerosols at two measurement stations in Northern India – Part 1: PM and BC concentrations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8271-8282.	1.9	31
21	Relationships between particles, cloud condensation nuclei and cloud droplet activation during the third Pallas Cloud Experiment. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11435-11450.	1.9	29
22	Concentrations and Adsorption Isotherms for Amphiphilic Surfactants in PM ₁₀ Aerosols from Different Regions of Europe. <i>Environmental Science & Technology</i> , 2019, 53, 12379-12388.	4.6	25
23	Applications and limitations of constrained high-resolution peak fitting on low resolving power mass spectra from the ToF-ACSM. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3263-3281.	1.2	24
24	A Computational Fluid Dynamics Approach to Nucleation in the Water–Sulfuric Acid System. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8033-8042.	1.1	22
25	The carrier gas pressure effect in a laminar flow diffusion chamber, homogeneous nucleation of n-butanol in helium. <i>Journal of Chemical Physics</i> , 2006, 124, 224304.	1.2	21
26	Data generated during the 2018 LAPSE-RATE campaign: an introduction and overview. <i>Earth System Science Data</i> , 2020, 12, 3357-3366.	3.7	18
27	Profiling water vapor mixing ratios in Finland by means of a Raman lidar, a satellite and a model. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4303-4316.	1.2	17
28	Total sulfate vs. sulfuric acid monomer concentrations in nucleation studies. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3429-3443.	1.9	16
29	Design and field campaign validation of a multi-rotor unmanned aerial vehicle and optical particle counter. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6613-6630.	1.2	13
30	Growth of sulphuric acid nanoparticles under wet and dry conditions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6461-6475.	1.9	12
31	Measurement report: Properties of aerosol and gases in the vertical profile during the LAPSE-RATE campaign. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 517-533.	1.9	10
32	Demonstration of a Remotely Piloted Atmospheric Measurement and Charge Release Platform for Geoen지니어ing. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 63-75.	0.5	10
33	Re-evaluation of the Pressure Effect for Nucleation in Laminar Flow Diffusion Chamber Experiments with Fluent and the Fine Particle Model. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1434-1439.	1.1	8
34	Temperature-Dependent Diffusion of H ₂ SO ₄ in Air at Atmospherically Relevant Conditions: Laboratory Measurements Using Laminar Flow Technique. <i>Atmosphere</i> , 2017, 8, 132.	1.0	6
35	In situ cloud ground-based measurements in the Finnish sub-Arctic: intercomparison of three cloud spectrometer setups. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5129-5147.	1.2	6
36	How ambient pressure influences water droplet nucleation at tropospheric conditions. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	5

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37	Online measurements of very low elemental and organic carbon concentrations in aerosols at a subarctic remote station. <i>Atmospheric Environment</i> , 2020, 226, 117380.	1.9	5
38	Winter atmospheric boundary layer observations over sea ice in the coastal zone of the Bay of Bothnia (Baltic Sea). <i>Earth System Science Data</i> , 2021, 13, 33-42.	3.7	4
39	Measurement report: Introduction to the HylCE-2018 campaign for measurements of ice-nucleating particles and instrument inter-comparison in the Hyytiälä boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5117-5145.	1.9	4
40	Homogenous nucleation rates of n-propanol measured in the Laminar Flow Diffusion Chamber at different total pressures. <i>Journal of Chemical Physics</i> , 2014, 140, 174301.	1.2	3
41	Atmospheric aerosol, gases, and meteorological parameters measured during the LAPSE-RATE campaign by the Finnish Meteorological Institute and Kansas State University. <i>Earth System Science Data</i> , 2021, 13, 2909-2922.	3.7	3
42	Simulation and field campaign evaluation of an optical particle counter on a fixed-wing UAV. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2061-2076.	1.2	3
43	An extensive data set for in situ microphysical characterization of low-level clouds in a Finnish sub-Arctic site. <i>Earth System Science Data</i> , 2022, 14, 637-649.	3.7	2
44	A Finnish Meteorological Institute's "Aerosol Cloud Interaction Tube (FMI-ACIT): Experimental setup and tests of proper operation. <i>Journal of Chemical Physics</i> , 2018, 149, 124201.	1.2	1
45	Homogeneous Nucleation Rate in Supersaturated Water Vapor. , 2007, , 134-138.		1
46	The Effect of Total Pressure on Nucleation in a Laminar Flow Diffusion Chamber: n-Pentanol + Helium. , 2007, , 293-296.		1