

Ryan D Davis

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

442
citations

840119

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1125271

13
g-index

13
all docs

13
docs citations

13
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	Deliquescence and efflorescence of calcium perchlorate: An investigation of stable aqueous solutions relevant to Mars. <i>Icarus</i> , 2014, 243, 420-428.	1.1	86
2	Exploring Chemistry in Microcompartments Using Guided Droplet Collisions in a Branched Quadrupole Trap Coupled to a Single Droplet, Paper Spray Mass Spectrometer. <i>Analytical Chemistry</i> , 2017, 89, 12511-12519.	3.2	60
3	Evidence for a semisolid phase state of aerosols and droplets relevant to the airborne and surface survival of pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	47
4	Contact efflorescence as a pathway for crystallization of atmospherically relevant particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15815-15820.	3.3	45
5	Ion-molecule interactions enable unexpected phase transitions in organic-inorganic aerosol. <i>Science Advances</i> , 2020, 6, .	4.7	36
6	Studying Chemistry in Micro-compartments by Separating Droplet Generation from Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 339-343.	1.2	34
7	Long Working-Distance Optical Trap for in Situ Analysis of Contact-Induced Phase Transformations. <i>Analytical Chemistry</i> , 2015, 87, 6186-6194.	3.2	33
8	Colliding-Droplet Microreactor: Rapid On-Demand Inertial Mixing and Metal-Catalyzed Aqueous Phase Oxidation Processes. <i>Analytical Chemistry</i> , 2017, 89, 12494-12501.	3.2	25
9	Dual-Balance Electrodynamic Trap as a Microanalytical Tool for Identifying Gel Transitions and Viscous Properties of Levitated Aerosol Particles. <i>Analytical Chemistry</i> , 2020, 92, 3086-3094.	3.2	22
10	Oxygen isotope fractionation in the vacuum ultraviolet photodissociation of carbon monoxide: Wavelength, pressure, and temperature dependency. <i>Journal of Chemical Physics</i> , 2012, 137, 024309.	1.2	16
11	Crystal nucleation initiated by transient ion-surface interactions at aerosol interfaces. <i>Science Advances</i> , 2017, 3, e1700425.	4.7	16
12	Seeded Crystal Growth of Internally Mixed Organic-Inorganic Aerosols: Impact of Organic Phase State. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8668-8679.	1.1	12
13	Immersion and Contact Efflorescence Induced by Mineral Dust Particles. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1303-1311.	1.1	10