

Eimear Maria Dunne

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

3,883
citations

430754

18
h-index

677027

22
g-index

25
all docs

25
docs citations

25
times ranked

3120
citing authors

#	ARTICLE	IF	CITATIONS
1	Two new submodels for the Modular Earth Submodel System (MESSy): New Aerosol Nucleation (NAN) and small ions (IONS) version 1.0. <i>Geoscientific Model Development</i> , 2018, 11, 4987-5001.	1.3	3
2	Causes and importance of new particle formation in the present-day and preindustrial atmospheres. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8739-8760.	1.2	198
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	Comparison of the SAWNUC model with CLOUD measurements of sulphuric acid-water nucleation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12401-12414.	1.2	16
5	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3036-3049.	1.2	17
6	Experimental particle formation rates spanning tropospheric sulfuric acid and ammonia abundances, ion production rates, and temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,377.	1.2	71
7	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12053-12058.	3.3	107
8	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	6.0	289
9	The effect of acid-base clustering and ions on the growth of atmospheric nano-particles. <i>Nature Communications</i> , 2016, 7, 11594.	5.8	116
10	Experimental investigation of ion-ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7203-7216.	1.9	46
11	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ O) and ternary (H ₂ O) system. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10701-10721.	1.9	27
12	Geographical and diurnal features of amine-enhanced boundary layer nucleation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9606-9624.	1.2	37
13	On the composition of ammonia-sulfuric-acid ion clusters during aerosol particle formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 55-78.	1.9	84
14	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.	6.0	456
15	Global modelling of direct and indirect effects of sea spray aerosol using a source function encapsulating wave state. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11731-11752.	1.9	33
16	A global process-based study of marine CCN trends and variability. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13631-13642.	1.9	6
17	Molecular understanding of sulphuric acid-amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	13.7	774
18	Ternary H ₂ SO ₄ -H ₂ O-NH ₃ neutral and charged nucleation rates for a wide range of atmospheric conditions. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	The radiative effect of ion-induced inorganic nucleation in the free troposphere. , 2013, , .		0
20	Trends in wind speeds affect atmospheric aerosol. , 2013, , .		0
21	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17223-17228.	3.3	300
22	Evolution of particle composition in CLOUD nucleation experiments. Atmospheric Chemistry and Physics, 2013, 13, 5587-5600.	1.9	33
23	No statistically significant effect of a short-term decrease in the nucleation rate on atmospheric aerosols. Atmospheric Chemistry and Physics, 2012, 12, 11573-11587.	1.9	19
24	A cosmic ray-climate link and cloud observations. Journal of Space Weather and Space Climate, 2012, 2, A18.	1.1	38
25	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. Nature, 2011, 476, 429-433.	13.7	1,114