

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	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011, 476, 429-433.	13.7	1,114
2	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	13.7	774
3	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.	6.0	456
4	Molecular understanding of atmospheric particle formation from sulfuric acid and large oxidized organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17223-17228.	3.3	300
5	Global atmospheric particle formation from CERN CLOUD measurements. <i>Science</i> , 2016, 354, 1119-1124.	6.0	289
6	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
7	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
8	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
9	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
10	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
11	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
12	Experimental investigation of ion–ion recombination under atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7203-7216.	1.9	46
13	A cosmic ray-climate link and cloud observations. <i>Journal of Space Weather and Space Climate</i> , 2012, 2, A18.	1.1	38
14	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
15	Evolution of particle composition in CLOUD nucleation experiments. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5587-5600.	1.9	33
16	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
17	Thermodynamics of the formation of sulfuric acid dimers in the binary (H ₂ O) ₂ /SO ₄ and ternary (H ₂ O) ₂ /SO ₄ /H ₂ O system. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10701-10721.	1.9	27
18	No statistically significant effect of a short-term decrease in the nucleation rate on atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11573-11587.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Effect of dimethylamine on the gas phase sulfuric acid concentration measured by Chemical Ionization Mass Spectrometry. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3036-3049.	1.2	17
20	Comparison of the SAWNUC model with CLOUD measurements of sulphuric acid-water nucleation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12401-12414.	1.2	16
21	A global process-based study of marine CCN trends and variability. Atmospheric Chemistry and Physics, 2014, 14, 13631-13642.	1.9	6
22	Two new submodels for the Modular Earth Submodel System (MESSy): New Aerosol Nucleation (NAN) and small ions (IONS) version 1.0. Geoscientific Model Development, 2018, 11, 4987-5001.	1.3	3
23	Ternary H ₂ SO ₄ -H ₂ O-NH ₃ neutral and charged nucleation rates for a wide range of atmospheric conditions. , 2013, , .		0
24	The radiative effect of ion-induced inorganic nucleation in the free troposphere. , 2013, , .		0
25	Trends in wind speeds affect atmospheric aerosol. , 2013, , .		0