

Catherine E Scott

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,422
citations

393982

19
h-index

610482

24
g-index

51
all docs

51
docs citations

51
times ranked

3764
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.	13.7	528
2	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.	6.0	456
3	The direct and indirect radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 447-470.	1.9	175
4	Natural aerosol direct and indirect radiative effects. <i>Geophysical Research Letters</i> , 2013, 40, 3297-3301.	1.5	150
5	The impact of residential combustion emissions on atmospheric aerosol, human health, and climate. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 873-905.	1.9	122
6	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
7	Enhanced global primary production by biogenic aerosol via diffuse radiation fertilization. <i>Nature Geoscience</i> , 2018, 11, 640-644.	5.4	87
8	Impact on short-lived climate forcers increases projected warming due to deforestation. <i>Nature Communications</i> , 2018, 9, 157.	5.8	86
9	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2020, 13, 6383-6423.	1.3	83
10	Reassessment of pre-industrial fire emissions strongly affects anthropogenic aerosol forcing. <i>Nature Communications</i> , 2018, 9, 3182.	5.8	75
11	Tree species richness and diversity predicts the magnitude of urban heat island mitigation effects of greenspaces. <i>Science of the Total Environment</i> , 2021, 770, 145211.	3.9	71
12	Weak global sensitivity of cloud condensation nuclei and the aerosol indirect effect to Criegee + SO ₂ chemistry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3163-3176.	1.9	67
13	Uncertainties in global aerosols and climate effects due to biofuel emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8577-8596.	1.9	62
14	Biomass burning aerosol over the Amazon: analysis of aircraft, surface and satellite observations using a global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9125-9152.	1.9	60
15	Substantial large-scale feedbacks between natural aerosols and climate. <i>Nature Geoscience</i> , 2018, 11, 44-48.	5.4	50
16	A global horizon scan of the future impacts of robotics and autonomous systems on urban ecosystems. <i>Nature Ecology and Evolution</i> , 2021, 5, 219-230.	3.4	39
17	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1105-1126.	1.9	39
18	Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12989-13001.	1.9	37

#	ARTICLE	IF	CITATIONS
19	Impacts of aviation fuel sulfur content on climate and human health. Atmospheric Chemistry and Physics, 2016, 16, 10521-10541.	1.9	33
20	Evaluation of natural aerosols in CRESCENDO Earth system models (ESMs): mineral dust. Atmospheric Chemistry and Physics, 2021, 21, 10295-10335.	1.9	20
21	Aerosol size distribution and radiative forcing response to anthropogenically driven historical changes in biogenic secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2015, 15, 2247-2268.	1.9	13
22	A global model perturbed parameter ensemble study of secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2021, 21, 2693-2723.	1.9	9
23	Impact on short-lived climate forcers (SLCFs) from a realistic land-use change scenario via changes in biogenic emissions. Faraday Discussions, 2017, 200, 101-120.	1.6	7
24	The carbon sequestration potential of Scottish native woodland. Environmental Research Communications, 2021, 3, 041003.	0.9	4
25	Reply to: Complexities between plants and the atmosphere. Nature Geoscience, 2019, 12, 695-695.	5.4	1
26	The Radiative Impact of Biogenic SOA. Springer Theses, 2014, , 75-91.	0.0	0
27	Model Description. Springer Theses, 2014, , 35-52.	0.0	0
28	The Impact of Biogenic SOA on Particle and Cloud Condensation Nuclei Concentration. Springer Theses, 2014, , 53-73.	0.0	0
29	The Impact of Volatility Treatment on the Radiative Effect of Biogenic SOA. Springer Theses, 2014, , 93-106.	0.0	0