

# P M Edwards

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

3,299  
citations

159585

30  
h-index

206112

48  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3743  
citing authors

#	ARTICLE	IF	CITATIONS
1	High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014, 514, 351-354.	27.8	265
2	Validate personal air-pollution sensors. <i>Nature</i> , 2016, 535, 29-31.	27.8	204
3	Quantifying the magnitude of a missing hydroxyl radical source in a tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7223-7233.	4.9	195
4	Secondary Organic Aerosol Formation and Organic Nitrate Yield from NO <sub>3</sub> Oxidation of Biogenic Hydrocarbons. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11944-11953.	10.0	178
5	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.9	154
6	Evaluating the performance of low cost chemical sensors for air pollution research. <i>Faraday Discussions</i> , 2016, 189, 85-103.	3.2	143
7	Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 279-298.	4.9	132
8	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 169-199.	4.9	130
9	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8955-8971.	4.9	100
10	Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10977-10988.	4.9	98
11	A broadband cavity enhanced absorption spectrometer for aircraft measurements of glyoxal, methylglyoxal, nitrous acid, nitrogen dioxide, and water vapor. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 423-440.	3.1	93
12	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3427-3440.	4.9	90
13	Isoprene oxidation mechanisms: measurements and modelling of OH and HO <sub>2</sub> over a South-East Asian tropical rainforest during the OP3 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6749-6771.	4.9	88
14	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	3.3	86
15	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO <sub>x</sub> and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	4.0	80
16	Impacts of HO <sub>x</sub> regeneration and recycling in the oxidation of isoprene: Consequences for the composition of past, present and future atmospheres. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	78
17	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	76
18	A Measurement of Total Reactive Nitrogen, NO <sub>y</sub> , together with NO <sub>2</sub> , NO, and O <sub>3</sub> via Cavity Ring-down Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9609-9615.	10.0	75

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19	A flow-tube based laser-induced fluorescence instrument to measure OH reactivity in the troposphere. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 465-477.	3.1	73
20	OH reactivity in a South East Asian tropical rainforest during the Oxidant and Particle Photochemical Processes (OP3) project. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9497-9514.	4.9	73
21	Nighttime Chemical Transformation in Biomass Burning Plumes: A Box Model Analysis Initialized with Aircraft Observations. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2529-2538.	10.0	68
22	Instrumentation and measurement strategy for the NOAA SENEX aircraft campaign as part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3063-3093.	3.1	58
23	Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1975-1993.	4.9	57
24	Transition from high- to low-NO <sub>x</sub> control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017, 10, 490-495.	12.9	56
25	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday vs. weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5018-5028.	3.3	54
26	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5949-5962.	4.9	49
27	Secondary organic aerosol (SOA) yields from NO <sub>x</sub> and isoprene based on nighttime aircraft power plant plume transects. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11663-11682.	4.9	47
28	Measurement and calculation of OH reactivity at a United Kingdom coastal site. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 53-76.	3.2	38
29	The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3177-3195.	4.0	36
30	Peroxynitric acid (HO <sub>2</sub> NO <sub>2</sub> ) measurements during the UBWOS 2013 and 2014 studies using iodide ion chemical ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8101-8114.	4.9	33
31	Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5727-5741.	4.9	33
32	Clustering approaches to improve the performance of low cost air pollution sensors. <i>Faraday Discussions</i> , 2017, 200, 621-637.	3.2	32
33	An improved low-power measurement of ambient NO <sub>2</sub> and O <sub>3</sub> ; combining electrochemical sensor clusters and machine learning. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1325-1336.	3.1	30
34	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13609-13630.	4.9	28
35	Reactive nitrogen partitioning and its relationship to winter ozone events in Utah. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 573-583.	4.9	24
36	Impacts of bromine and iodine chemistry on tropospheric OH and HO <sub>2</sub> : comparing observations with box and global model perspectives. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3541-3561.	4.9	24

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37	Low-NO atmospheric oxidation pathways in a polluted megacity. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1613-1625.	4.9	24
38	Measurement of OH reactivity by laser flash photolysis coupled with laser-induced fluorescence spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2827-2844.	3.1	22
39	Key Role of NO <sub>3</sub> Radicals in the Production of Isoprene Nitrates and Nitroxyorganosulfates in Beijing. <i>Environmental Science &amp; Technology</i> , 2021, 55, 842-853.	10.0	18
40	A global model study of the impact of land-use change in Borneo on atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9183-9194.	4.9	16
41	Role of Criegee Intermediates in Secondary Sulfate Aerosol Formation in Nocturnal Power Plant Plumes in the Southeast US. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 748-759.	2.7	16
42	Assessing the sources of particles at an urban background site using both regulatory instruments and low-cost sensors – a comparative study. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4139-4155.	3.1	14
43	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	11
44	Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. <i>Geophysical Research Letters</i> , 2019, 46, 7752-7760.	4.0	9
45	A Four Carbon Organonitrate as a Significant Product of Secondary Isoprene Chemistry. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
46	Measurements of nitrogen oxides from Hudson Bay: Implications for NO <sub>x</sub> release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , 2010, 44, 2971-2979.	4.1	6
47	A new diagnostic for tropospheric ozone production. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13669-13680.	4.9	6
48	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in <i>Atmos. Chem. Phys.</i> , 10, 169-199, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 563-563.	4.9	5
49	Unexpected Fast Photochemistry Emerges in Cool Seasons China. , 0, , .		0