

James T Kelly

List of Publications by Year in descending order

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54
papers

3,385
citations

218381

26
h-index

161609

54
g-index

62
all docs

62
docs citations

62
times ranked

3656
citing authors

#	ARTICLE	IF	CITATIONS
1	Incremental testing of the Community Multiscale Air Quality (CMAQ) modeling system version 4.7. Geoscientific Model Development, 2010, 3, 205-226.	1.3	404
2	An ensemble-based model of PM _{2.5} concentration across the contiguous United States with high spatiotemporal resolution. Environment International, 2019, 130, 104909.	4.8	370
3	The acidity of atmospheric particles and clouds. Atmospheric Chemistry and Physics, 2020, 20, 4809-4888.	1.9	327
4	Particle Deposition in Human Nasal Airway Replicas Manufactured by Different Methods. Part I: Inertial Regime Particles. Aerosol Science and Technology, 2004, 38, 1063-1071.	1.5	213
5	Detailed flow patterns in the nasal cavity. Journal of Applied Physiology, 2000, 89, 323-337.	1.2	210
6	Assessing NO ₂ Concentration and Model Uncertainty with High Spatiotemporal Resolution across the Contiguous United States Using Ensemble Model Averaging. Environmental Science & Technology, 2020, 54, 1372-1384.	4.6	155
7	Particle image velocimetry measurements in complex geometries. Experiments in Fluids, 2000, 29, 91-95.	1.1	130
8	Influence of dust composition on cloud droplet formation. Atmospheric Environment, 2007, 41, 2904-2916.	1.9	124
9	An Ensemble Learning Approach for Estimating High Spatiotemporal Resolution of Ground-Level Ozone in the Contiguous United States. Environmental Science & Technology, 2020, 54, 11037-11047.	4.6	114
10	Simulating emission and chemical evolution of coarse sea-salt particles in the Community Multiscale Air Quality (CMAQ) model. Geoscientific Model Development, 2010, 3, 257-273.	1.3	113
11	Particle Deposition in Human Nasal Airway Replicas Manufactured by Different Methods. Part II: Ultrafine Particles. Aerosol Science and Technology, 2004, 38, 1072-1079.	1.5	109
12	Methods, availability, and applications of PM _{2.5} exposure estimates derived from ground measurements, satellite, and atmospheric models. Journal of the Air and Waste Management Association, 2019, 69, 1391-1414.	0.9	73
13	Evaluation of the Community Multiscale Air Quality (CMAQ) model v5.0 against size-resolved measurements of inorganic particle composition across sites in North America. Geoscientific Model Development, 2015, 8, 2877-2892.	1.3	60
14	Deep Learning for Prediction of the Air Quality Response to Emission Changes. Environmental Science & Technology, 2020, 54, 8589-8600.	4.6	58
15	The estimated change in the level and distribution of PM _{2.5} -attributable health impacts in the United States: 2005–2014. Environmental Research, 2018, 167, 506-514.	3.7	53
16	Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3600-3614.	1.2	51
17	Gas and aerosol carbon in California: comparison of measurements and model predictions in Pasadena and Bakersfield. Atmospheric Chemistry and Physics, 2015, 15, 5243-5258.	1.9	48
18	Updating sea spray aerosol emissions in the Community Multiscale Air Quality (CMAQ) model version 5.0.2. Geoscientific Model Development, 2015, 8, 3733-3746.	1.3	47

#	ARTICLE	IF	CITATIONS
19	Respiratory Deposition and Inhalability of Monodisperse Aerosols in Long-Evans Rats. <i>Toxicological Sciences</i> , 2003, 71, 104-111.	1.4	45
20	Thermodynamics of carbonates and hydrates related to heterogeneous reactions involving mineral aerosol. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	44
21	Health benefit assessment of PM2.5 reduction in Pearl River Delta region of China using a model-monitor data fusion approach. <i>Journal of Environmental Management</i> , 2019, 233, 489-498.	3.8	44
22	Evaluation of surface and upper air fine scale WRF meteorological modeling of the May and June 2010 CalNex period in California. <i>Atmospheric Environment</i> , 2013, 80, 299-309.	1.9	41
23	Challenges to Modeling "Cold Pool" Meteorology Associated with High Pollution Episodes. <i>Environmental Science & Technology</i> , 2011, 45, 7118-7119.	4.6	33
24	Development and application of observable response indicators for design of an effective ozone and fine-particle pollution control strategy in China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13627-13646.	1.9	33
25	Assessing PM2.5 model performance for the conterminous U.S. with comparison to model performance statistics from 2007-2015. <i>Atmospheric Environment</i> , 2019, 214, 116872.	1.9	30
26	Inertial Particle Deposition in a Monkey Nasal Mold Compared with that in Human Nasal Replicas. <i>Inhalation Toxicology</i> , 2005, 17, 823-830.	0.8	28
27	Photochemical Modeling in California with Two Chemical Mechanisms: Model Intercomparison and Response to Emission Reductions. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 559-572.	0.9	27
28	Single source impacts estimated with photochemical model source sensitivity and apportionment approaches. <i>Atmospheric Environment</i> , 2014, 96, 266-274.	1.9	26
29	Water uptake by aerosol: Water activity in supersaturated potassium solutions and deliquescence as a function of temperature. <i>Atmospheric Environment</i> , 2006, 40, 4450-4468.	1.9	24
30	DEPOSITION OF FINE AND COARSE AEROSOLS IN A RAT NASAL MOLD. <i>Inhalation Toxicology</i> , 2001, 13, 577-588.	0.8	22
31	Simulating Particle Size Distributions over California and Impact on Lung Deposition Fraction. <i>Aerosol Science and Technology</i> , 2011, 45, 148-162.	1.5	21
32	Examining PM2.5 concentrations and exposure using multiple models. <i>Environmental Research</i> , 2021, 196, 110432.	3.7	20
33	The Detailed Emissions Scaling, Isolation, and Diagnostic (DESID) module in the Community Multiscale Air Quality (CMAQ) modeling system version 5.3.2. <i>Geoscientific Model Development</i> , 2021, 14, 3407-3420.	1.3	20
34	A method to predict PM 2.5 resulting from compliance with national ambient air quality standards. <i>Atmospheric Environment</i> , 2017, 162, 1-10.	1.9	19
35	Large-scale optimization of multi-pollutant control strategies in the Pearl River Delta region of China using a genetic algorithm in machine learning. <i>Science of the Total Environment</i> , 2020, 722, 137701.	3.9	19
36	Measurements and modeling of the inorganic chemical composition of fine particulate matter and associated precursor gases in California's San Joaquin Valley during CalNex 2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6853-6866.	1.2	18

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37	Examining single-source secondary impacts estimated from brute-force, decoupled direct method, and advanced plume treatment approaches. <i>Atmospheric Environment</i> , 2015, 111, 10-19.	1.9	18
38	Modeling NH ₄ NO ₃ Over the San Joaquin Valley During the 2013 DISCOVER ⁺ AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4727-4745.	1.2	18
39	Aerosol thermodynamics of potassium salts, double salts, and water content near the eutectic. <i>Atmospheric Environment</i> , 2008, 42, 3717-3728.	1.9	17
40	Monthly Patterns of Ammonia Over the Contiguous United States at 2 ⁺ km Resolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090579.	1.5	16
41	Simulating the phase partitioning of NH ₃ , HNO ₃ , and HCl with size-resolved particles over northern Colorado in winter. <i>Atmospheric Environment</i> , 2016, 131, 67-77.	1.9	15
42	A system for developing and projecting PM _{2.5} spatial fields to correspond to just meeting national ambient air quality standards. <i>Atmospheric Environment: X</i> , 2019, 2, 100019.	0.8	15
43	Characterizing CO and NO _x Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3304-3320.	1.2	14
44	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2012-E2033.	1.7	14
45	Sensitivity of aerosol indirect effects to cloud nucleation and autoconversion parameterizations in short-range weather forecasts during the May 2003 aerosol IOP. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	1.3	11
46	The Aquatic Acidification Index: A New Regulatory Metric Linking Atmospheric and Biogeochemical Models to Assess Potential Aquatic Ecosystem Recovery. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	10
47	Nasal Molds as Predictors of Fine and Coarse Particle Deposition in Rat Nasal Airways. <i>Inhalation Toxicology</i> , 2003, 15, 859-875.	0.8	9
48	Photochemical grid model performance with varying horizontal grid resolution and sub-grid plume treatment for the Martins Creek near-field SO ₂ study. <i>Atmospheric Environment</i> , 2014, 99, 148-158.	1.9	9
49	Data Assimilation of Ambient Concentrations of Multiple Air Pollutants Using an Emission-Concentration Response Modeling Framework. <i>Atmosphere</i> , 2020, 11, 1289.	1.0	9
50	Predicting the Nonlinear Response of PM _{2.5} and Ozone to Precursor Emission Changes with a Response Surface Model. <i>Atmosphere</i> , 2021, 12, 1044.	1.0	9
51	Mimicking atmospheric photochemical modeling with a deep neural network. <i>Atmospheric Research</i> , 2022, 265, 105919.	1.8	8
52	A comparative study of two-way and offline coupled WRF v3.4 and CMAQ v5.0.2 over the contiguous US: performance evaluation and impacts of chemistry-meteorology feedbacks on air quality. <i>Geoscientific Model Development</i> , 2021, 14, 7189-7221.	1.3	5
53	Furthering a partnership: Air quality modeling and improving public health. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 682-688.	0.9	1
54	Hydrogen chloride (HCl) at ground sites during CalNex 2010 and insight into its thermodynamic properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, 1-16.	1.2	1