

Donald Dabdub

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,328
citations

159525

30
h-index

161767

54
g-index

80
all docs

80
docs citations

80
times ranked

3374
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimate of global atmospheric organic aerosol from oxidation of biogenic hydrocarbons. <i>Geophysical Research Letters</i> , 1999, 26, 2721-2724.	1.5	325
2	Nonequilibrium atmospheric secondary organic aerosol formation and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2836-2841.	3.3	261
3	Heterogeneous Atmospheric Chemistry, Ambient Measurements, and Model Calculations of N_2O_5 : A Review. <i>Aerosol Science and Technology</i> , 2011, 45, 665-695.	1.5	212
4	Images reveal that atmospheric particles can undergo liquid-liquid phase separations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13188-13193.	3.3	205
5	Secondary organic aerosol 1. Atmospheric chemical mechanism for production of molecular constituents. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1-AAC 3-26.	3.3	183
6	Impact of Chlorine Emissions from Sea-Salt Aerosol on Coastal Urban Ozone. <i>Environmental Science & Technology</i> , 2003, 37, 275-284.	4.6	159
7	A Coupled Hydrophobic-Hydrophilic Model for Predicting Secondary Organic Aerosol Formation. <i>Journal of Atmospheric Chemistry</i> , 2003, 44, 171-190.	1.4	118
8	Chlorine activation indoors and outdoors via surface-mediated reactions of nitrogen oxides with hydrogen chloride. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13647-13654.	3.3	107
9	Comparison of photochemical mechanisms for air quality modeling. <i>Atmospheric Environment</i> , 2003, 37, 4179-4194.	1.9	85
10	Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	80
11	Modeling Cl_2 formation from aqueous NaCl particles: Evidence for interfacial reactions and importance of Cl_2 decomposition in alkaline solution. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 8-1.	3.3	76
12	The future of airborne sulfur-containing particles in the absence of fossil fuel sulfur dioxide emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13514-13519.	3.3	76
13	Development and initial evaluation of a dynamic species-resolved model for gas phase chemistry and size-resolved gas/particle partitioning associated with secondary organic aerosol formation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	74
14	Enhanced photolysis in aerosols: evidence for important surface effects. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4700.	1.3	72
15	Secondary organic aerosol 3. Urban/regional scale model of size- and composition-resolved aerosols. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 5-1-AAC 5-14.	3.3	71
16	Rethinking Ozone Production. <i>Science</i> , 2008, 319, 1624-1625.	6.0	65
17	Effect of relative humidity on the composition of secondary organic aerosol from the oxidation of toluene. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1643-1652.	1.9	64
18	NO_x and VOC Control and Its Effects on the Formation of Aerosols. <i>Aerosol Science and Technology</i> , 2002, 36, 560-572.	1.5	53

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19	Simulation and analysis of secondary organic aerosol dynamics in the South Coast Air Basin of California. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	53
20	Semi-Lagrangian Flux Scheme for the Solution of the Aerosol Condensation/Evaporation Equation. <i>Aerosol Science and Technology</i> , 2002, 36, 407-418.	1.5	52
21	Gas-Phase Molecular Halogen Formation from NaCl and NaBr Aerosols: When Are Interface Reactions Important?. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1859-1867.	1.1	50
22	Two-level time-marching scheme using splines for solving the advection equation. <i>Atmospheric Environment</i> , 2001, 35, 1627-1637.	1.9	49
23	IMAGES-SCAPE2: A modeling study of size- and chemically resolved aerosol thermodynamics in a global chemical transport model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	49
24	Contribution of gas phase oxidation of volatile organic compounds to atmospheric carbon monoxide levels in two areas of the United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
25	Description and evaluation of the Multiscale Online Nonhydrostatic Atmosphere Chemistry model (NMMB-MONARCH) version 1.0: gas-phase chemistry at global scale. <i>Geoscientific Model Development</i> , 2017, 10, 609-638.	1.3	41
26	Determining Air Quality and Greenhouse Gas Impacts of Hydrogen Infrastructure and Fuel Cell Vehicles. <i>Environmental Science & Technology</i> , 2009, 43, 9022-9029.	4.6	38
27	Parallel computation in atmospheric chemical modeling. <i>Parallel Computing</i> , 1996, 22, 111-130.	1.3	34
28	A New Aerosol Flow System for Photochemical and Thermal Studies of Tropospheric Aerosols. <i>Aerosol Science and Technology</i> , 2010, 44, 329-338.	1.5	34
29	Modeling bronchial circulation with application to soluble gas exchange: description and sensitivity analysis. <i>Journal of Applied Physiology</i> , 1998, 84, 2070-2088.	1.2	33
30	Air quality impacts of fuel cell electric hydrogen vehicles with high levels of renewable power generation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16592-16603.	3.8	33
31	Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the U.S. West Coast during spring 2002. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30
32	Air quality modeling on massively parallel computers. <i>Atmospheric Environment</i> , 1994, 28, 1679-1687.	1.9	27
33	An uncertainty for clean air: Air quality modeling implications of underestimating VOC emissions in urban inventories. <i>Atmospheric Environment</i> , 2019, 211, 256-267.	1.9	27
34	Considering future regional air quality impacts of the transportation sector. <i>Energy Policy</i> , 2019, 124, 63-80.	4.2	26
35	Projecting full build-out environmental impacts and roll-out strategies associated with viable hydrogen fueling infrastructure strategies. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14309-14323.	3.8	25
36	Comprehensively assessing the drivers of future air quality in California. <i>Environment International</i> , 2019, 125, 386-398.	4.8	24

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37	Effect of alveolar volume and sequential filling on the diffusing capacity of the lungs: II. Experiment. <i>Respiration Physiology</i> , 2000, 120, 251-271.	2.8	22
38	Air Quality Modeling in the South Coast Air Basin of California: What Do the Numbers Really Mean?. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 1184-1195.	0.9	22
39	Central power generation versus distributed generation – An air quality assessment in the South Coast Air Basin of California. <i>Atmospheric Environment</i> , 2010, 44, 3215-3223.	1.9	22
40	Impact of global climate change on ozone, particulate matter, and secondary organic aerosol concentrations in California: A model perturbation analysis. <i>Atmospheric Environment</i> , 2017, 153, 1-17.	1.9	22
41	Secondary organic aerosol from atmospheric photooxidation of indole. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11605-11621.	1.9	21
42	Modeling reactive ammonia uptake by secondary organic aerosol in CMAQ: application to the continental US. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3641-3657.	1.9	21
43	Development of aroC/MPMPO 1.0: a model to simulate secondary organic aerosol from aromatic precursors in regional models. <i>Geoscientific Model Development</i> , 2016, 9, 2143-2151.	1.3	19
44	High-resolution pollutant transport in the San Pedro Bay of California. <i>Atmospheric Pollution Research</i> , 2011, 2, 237-246.	1.8	18
45	Assessment of the emissions and air quality impacts of biomass and biogas use in California. <i>Journal of the Air and Waste Management Association</i> , 2016, 66, 134-150.	0.9	18
46	Partitioning phase preference for secondary organic aerosol in an urban atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6705-6710.	3.3	17
47	Performance and portability of an air quality model. <i>Parallel Computing</i> , 1997, 23, 2187-2200.	1.3	16
48	Monte Carlo uncertainty and sensitivity analysis of the CACM chemical mechanism. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	16
49	Modeling the Oxidative Capacity of the Atmosphere of the South Coast Air Basin of California. 1. Ozone Formation Metrics. <i>Environmental Science & Technology</i> , 2004, 38, 746-752.	4.6	16
50	Calculations of Incremental Secondary Organic Aerosol Reactivity. <i>Environmental Science & Technology</i> , 2005, 39, 1724-1730.	4.6	16
51	Modeling Ammonia and Its Uptake by Secondary Organic Aerosol Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034109.	1.2	15
52	Reactive uptake of ammonia by secondary organic aerosols: Implications for air quality. <i>Atmospheric Environment</i> , 2018, 189, 1-8.	1.9	14
53	Emission estimates of HCFCs and HFCs in California from the 2010 CalNex study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2019-2030.	1.2	10
54	An Episodic Assessment of Vehicle Emission Regulations on Saving Lives in California. <i>Environmental Science & Technology</i> , 2021, 55, 547-552.	4.6	9

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55	Development and analysis of a non-splitting solution for three-dimensional air quality models. Atmospheric Environment, 2003, 37, 3741-3748.	1.9	8
56	A methodology for developing Distributed Generation scenarios in urban areas using geographical information systems. International Journal of Energy Technology and Policy, 2008, 6, 413.	0.1	8
57	Potential for Atmospheric-Driven Lead Paint Degradation in the South Coast Air Basin of California. Environmental Science & Technology, 2009, 43, 8881-8887.	4.6	6
58	Reactive Uptake of Ammonia by Biogenic and Anthropogenic Organic Aerosols. ACS Symposium Series, 2018, , 127-147.	0.5	6
59	Air quality impacts of liquefied natural gas in the South Coast Air Basin of California. Journal of Natural Gas Science and Engineering, 2014, 21, 680-690.	2.1	5
60	Emission factor estimation in regional air quality studies of residential natural gas fuel interchangeability. Fuel, 2014, 119, 129-140.	3.4	5
61	Secondary organic aerosol formation from naphthalene roadway emissions in the South Coast Air Basin of California. International Journal of Environment and Pollution, 2013, 52, 206.	0.2	4
62	Simulated sensitivity of secondary organic aerosol in the South Coast Air Basin of California to nitrogen oxides and other chemical parameters. Aerosol Science and Technology, 2018, 52, 679-692.	1.5	3
63	Benefits of near-zero freight: The air quality and health impacts of low-NO _x compressed natural gas trucks. Journal of the Air and Waste Management Association, 2021, 71, 1428-1444.	0.9	3
64	Effect of Humidity on the Reactive Uptake of Ammonia and Dimethylamine by Nitrogen-Containing Secondary Organic Aerosol. Atmosphere, 2021, 12, 1502.	1.0	3
65	Chemistry Across Multiple Phases (CAMP) version 1.0: an integrated multiphase chemistry model. Geoscientific Model Development, 2022, 15, 3663-3689.	1.3	3
66	Modeling Reactive Ammonia Uptake by Secondary Organic Aerosol in a Changing Climate: A WRF-CMAQ Evaluation. Frontiers in Environmental Science, 2022, 10, .	1.5	2
67	Health Benefits in California of Strengthening the Fine Particulate Matter Standards. Environmental Science & Technology, 2021, 55, 12223-12232.	4.6	1
68	Evaluating the Impacts of Cloud Processing on Resuspended Aerosol Particles After Cloud Evaporation Using a Particle-Resolved Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034992.	1.2	0