

Donald Dabdub

List of Publications by Year in descending order

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68
papers

3,328
citations

182225

30
h-index

182931

54
g-index

80
all docs

80
docs citations

80
times ranked

3786
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Modeling Reactive Ammonia Uptake by Secondary Organic Aerosol in a Changing Climate: A WRF-CMAQ Evaluation. <i>Frontiers in Environmental Science</i> , 2022, 10, . | 1.5 | 2 |
| 2 | Chemistry Across Multiple Phases (CAMP) version 1.0: an integrated multiphase chemistry model. <i>Geoscientific Model Development</i> , 2022, 15, 3663-3689. | 1.3 | 3 |
| 3 | An Episodic Assessment of Vehicle Emission Regulations on Saving Lives in California. <i>Environmental Science & Technology</i> , 2021, 55, 547-552. | 4.6 | 9 |
| 4 | 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 |
| 5 | Benefits of near-zero freight: The air quality and health impacts of low-NO _x compressed natural gas trucks. <i>Journal of the Air and Waste Management Association</i> , 2021, 71, 1428-1444. | 0.9 | 3 |
| 6 | Health Benefits in California of Strengthening the Fine Particulate Matter Standards. <i>Environmental Science & Technology</i> , 2021, 55, 12223-12232. | 4.6 | 1 |
| 7 | Effect of Humidity on the Reactive Uptake of Ammonia and Dimethylamine by Nitrogen-Containing Secondary Organic Aerosol. <i>Atmosphere</i> , 2021, 12, 1502. | 1.0 | 3 |
| 8 | Evaluating the Impacts of Cloud Processing on Resuspended Aerosol Particles After Cloud Evaporation Using a Particle-Resolved Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034992. | 1.2 | 0 |
| 9 | 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 |
| 10 | Comprehensively assessing the drivers of future air quality in California. <i>Environment International</i> , 2019, 125, 386-398. | 4.8 | 24 |
| 11 | Considering future regional air quality impacts of the transportation sector. <i>Energy Policy</i> , 2019, 124, 63-80. | 4.2 | 26 |
| 12 | 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 |
| 13 | 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 |
| 14 | Reactive Uptake of Ammonia by Biogenic and Anthropogenic Organic Aerosols. <i>ACS Symposium Series</i> , 2018, , 127-147. | 0.5 | 6 |
| 15 | Simulated sensitivity of secondary organic aerosol in the South Coast Air Basin of California to nitrogen oxides and other chemical parameters. <i>Aerosol Science and Technology</i> , 2018, 52, 679-692. | 1.5 | 3 |
| 16 | Reactive uptake of ammonia by secondary organic aerosols: Implications for air quality. <i>Atmospheric Environment</i> , 2018, 189, 1-8. | 1.9 | 14 |
| 17 | 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 |
| 18 | Secondary organic aerosol from atmospheric photooxidation of indole. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11605-11621. | 1.9 | 21 |

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| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Air quality impacts of liquefied natural gas in the South Coast Air Basin of California. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 680-690. | 2.1 | 5 |
| 25 | Emission factor estimation in regional air quality studies of residential natural gas fuel interchangeability. <i>Fuel</i> , 2014, 119, 129-140. | 3.4 | 5 |
| 26 | Secondary organic aerosol formation from naphthalene roadway emissions in the South Coast Air Basin of California. <i>International Journal of Environment and Pollution</i> , 2013, 52, 206. | 0.2 | 4 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | High-resolution pollutant transport in the San Pedro Bay of California. <i>Atmospheric Pollution Research</i> , 2011, 2, 237-246. | 1.8 | 18 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Potential for Atmospheric-Driven Lead Paint Degradation in the South Coast Air Basin of California. <i>Environmental Science & Technology</i> , 2009, 43, 8881-8887. | 4.6 | 6 |
| 38 | 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 |
| 39 | Rethinking Ozone Production. <i>Science</i> , 2008, 319, 1624-1625. | 6.0 | 65 |
| 40 | A methodology for developing Distributed Generation scenarios in urban areas using geographical information systems. <i>International Journal of Energy Technology and Policy</i> , 2008, 6, 413. | 0.1 | 8 |
| 41 | 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 |
| 42 | 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 |
| 43 | Enhanced photolysis in aerosols: evidence for important surface effects. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4700. | 1.3 | 72 |
| 44 | 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 |
| 45 | 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 |
| 46 | Calculations of Incremental Secondary Organic Aerosol Reactivity. <i>Environmental Science & Technology</i> , 2005, 39, 1724-1730. | 4.6 | 16 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Three-dimensional simulations of inorganic aerosol distributions in east Asia during spring 2001. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 80 |
| 51 | 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 |
| 52 | Development and analysis of a non-splitting solution for three-dimensional air quality models. <i>Atmospheric Environment</i> , 2003, 37, 3741-3748. | 1.9 | 8 |
| 53 | A Coupled Hydrophobic-Hydrophilic Model for Predicting Secondary Organic Aerosol Formation. <i>Journal of Atmospheric Chemistry</i> , 2003, 44, 171-190. | 1.4 | 118 |
| 54 | Comparison of photochemical mechanisms for air quality modeling. <i>Atmospheric Environment</i> , 2003, 37, 4179-4194. | 1.9 | 85 |

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|----|---|-----|-----------|
| 55 | Monte Carlo uncertainty and sensitivity analysis of the CACM chemical mechanism. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 16 |
| 56 | Impact of Chlorine Emissions from Sea-Salt Aerosol on Coastal Urban Ozone. <i>Environmental Science & Technology</i> , 2003, 37, 275-284. | 4.6 | 159 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | Two-level time-marching scheme using splines for solving the advection equation. <i>Atmospheric Environment</i> , 2001, 35, 1627-1637. | 1.9 | 49 |
| 63 | 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 |
| 64 | Estimate of global atmospheric organic aerosol from oxidation of biogenic hydrocarbons. <i>Geophysical Research Letters</i> , 1999, 26, 2721-2724. | 1.5 | 325 |
| 65 | 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 |
| 66 | Performance and portability of an air quality model. <i>Parallel Computing</i> , 1997, 23, 2187-2200. | 1.3 | 16 |
| 67 | Parallel computation in atmospheric chemical modeling. <i>Parallel Computing</i> , 1996, 22, 111-130. | 1.3 | 34 |
| 68 | Air quality modeling on massively parallel computers. <i>Atmospheric Environment</i> , 1994, 28, 1679-1687. | 1.9 | 27 |