

Nicholas Meskhidze

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,918
citations

218592

26
h-index

197736

49
g-index

67
all docs

67
docs citations

67
times ranked

3293
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Phytoplankton and Cloudiness in the Southern Ocean. <i>Science</i> , 2006, 314, 1419-1423. | 6.0 | 308 |
| 2 | Iron mobilization in mineral dust: Can anthropogenic SO ₂ emissions affect ocean productivity?. <i>Geophysical Research Letters</i> , 2003, 30, . | 1.5 | 267 |
| 3 | The physical and chemical characteristics of marine primary organic aerosol: a review. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3979-3996. | 1.9 | 211 |
| 4 | Dust and pollution: A recipe for enhanced ocean fertilization?. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 208 |
| 5 | A new physically-based quantification of marine isoprene and primary organic aerosol emissions. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4915-4927. | 1.9 | 161 |
| 6 | Wind speed dependent size-resolved parameterization for the organic mass fraction of sea spray aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8777-8790. | 1.9 | 150 |
| 7 | Production and Emissions of Marine Isoprene and Monoterpenes: A Review. <i>Advances in Meteorology</i> , 2010, 2010, 1-24. | 0.6 | 146 |
| 8 | Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671. | 4.7 | 128 |
| 9 | Estimation of iron solubility from observations and a global aerosol model. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 99 |
| 10 | Acidic processing of mineral dust iron by anthropogenic compounds over the north Pacific Ocean. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 97 |
| 11 | Global distribution and climate forcing of marine organic aerosol: 1. Model improvements and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11689-11705. | 1.9 | 87 |
| 12 | Evaluation of a new cloud droplet activation parameterization with in situ data from CRYSTAL-FACE and CSTRIFE. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 86 |
| 13 | Atmospheric dissolved iron deposition to the global oceans: effects of oxalate-promoted Fe dissolution, photochemical redox cycling, and dust mineralogy. <i>Geoscientific Model Development</i> , 2013, 6, 1137-1155. | 1.3 | 81 |
| 14 | Modeling dust and soluble iron deposition to the South Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 72 |
| 15 | Acceleration of oxygen decline in the tropical Pacific over the past decades by aerosol pollutants. <i>Nature Geoscience</i> , 2016, 9, 443-447. | 5.4 | 67 |
| 16 | Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684. | 1.3 | 63 |
| 17 | Understanding the transport of Patagonian dust and its influence on marine biological activity in the South Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2487-2502. | 1.9 | 61 |
| 18 | Quantifying environmental stress-induced emissions of algal isoprene and monoterpenes using laboratory measurements. <i>Biogeosciences</i> , 2015, 12, 637-651. | 1.3 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Atlantic Southern Ocean productivity: Fertilization from above or below?. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a. | 1.9 | 52 |
| 20 | Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. <i>Marine Chemistry</i> , 2019, 217, 103704. | 0.9 | 41 |
| 21 | The effect of marine isoprene emissions on secondary organic aerosol and ozone formation in the coastal United States. <i>Atmospheric Environment</i> , 2010, 44, 115-121. | 1.9 | 37 |
| 22 | A global comparison of GEOS-Chem predicted and remotely sensed mineral dust aerosol optical depth and extinction profiles. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, . | 1.3 | 36 |
| 23 | Model evaluation of marine primary organic aerosol emission schemes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8553-8566. | 1.9 | 34 |
| 24 | Global distribution and climate forcing of marine organic aerosol – Part 2: Effects on cloud properties and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6555-6563. | 1.9 | 33 |
| 25 | Spaceborne observations of the lidar ratio of marine aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3241-3255. | 1.9 | 28 |
| 26 | Deriving the effect of wind speed on clean marine aerosol optical properties using the A-Train satellites. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11401-11413. | 1.9 | 23 |
| 27 | The contribution of marine organics to the air quality of the western United States. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7415-7423. | 1.9 | 21 |
| 28 | Effects of Ocean Ecosystem on Marine Aerosol-Cloud Interaction. <i>Advances in Meteorology</i> , 2010, 2010, 1-13. | 0.6 | 20 |
| 29 | Surface ocean microbiota determine cloud precursors. <i>Scientific Reports</i> , 2021, 11, 281. | 1.6 | 19 |
| 30 | Hygroscopic growth and cloud droplet activation of xanthan gum as a proxy for marine hydrogels. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,803. | 1.2 | 18 |
| 31 | Potential effect of atmospheric dissolved organic carbon on the iron solubility in seawater. <i>Marine Chemistry</i> , 2017, 194, 124-132. | 0.9 | 17 |
| 32 | Isoprene, Cloud Droplets, and Phytoplankton. <i>Science</i> , 2007, 317, 42-43. | 6.0 | 15 |
| 33 | Influence of measurement uncertainties on fractional solubility of iron in mineral aerosols over the oceans. <i>Aeolian Research</i> , 2016, 22, 85-92. | 1.1 | 15 |
| 34 | Implementing marine organic aerosols into the GEOS-Chem model. <i>Geoscientific Model Development</i> , 2015, 8, 619-629. | 1.3 | 12 |
| 35 | Aerosol Properties Observed in the Subtropical North Pacific Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9990. | 1.2 | 11 |
| 36 | Does Marine Surface Tension Have Global Biogeography? Addition for the OCEANFILMS Package. <i>Atmosphere</i> , 2018, 9, 216. | 1.0 | 10 |

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|----|--|-----|-----------|
| 37 | Spatial and temporal variations of PM _{2.5} mass closure and inorganic PM _{2.5} in the Southeastern U.S.. Environmental Science and Pollution Research, 2019, 26, 33181-33191. | 2.7 | 10 |
| 38 | Observations of new particle formation, modal growth rates, and direct emissions of sub-10 nm particles in an urban environment. Atmospheric Environment, 2020, 242, 117835. | 1.9 | 10 |
| 39 | Possible Wintertime Sources of Fine Particles in an Urban Environment. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13055-13070. | 1.2 | 7 |
| 40 | Hygroscopicity- and Size-Resolved Measurements of Submicron Aerosol on the East Coast of the United States. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1826-1839. | 1.2 | 6 |
| 41 | Interpreting elevated space-borne HCHO columns over the Mediterranean Sea using the OMI sensor. Atmospheric Chemistry and Physics, 2011, 11, 12787-12798. | 1.9 | 5 |
| 42 | Spatial and temporal variations of atmospheric chemical condition in the Southeastern U.S.. Atmospheric Research, 2021, 248, 105190. | 1.8 | 4 |
| 43 | Improving estimates of PM _{2.5} concentration and chemical composition by application of High Spectral Resolution Lidar (HSRL) and Creating Aerosol Types from chemistry (CATCH) algorithm. Atmospheric Environment, 2021, 250, 118250. | 1.9 | 4 |
| 44 | Creating Aerosol Types from CHEMISTRY (CATCH): A New Algorithm to Extend the Link Between Remote Sensing and Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,366. | 1.2 | 3 |
| 45 | Continuous flow hygroscopicity-resolved relaxed eddy accumulation (Hy-Res REA) method of measuring size-resolved sodium chloride particle fluxes. Aerosol Science and Technology, 2018, 52, 433-450. | 1.5 | 3 |
| 46 | Ocean Contributions to the Marine Boundary Layer Aerosol Budget. Atmosphere, 2019, 10, 98. | 1.0 | 2 |
| 47 | Partitioning of NH ₃ -NH ₄ ⁺ in the Southeastern U.S.. Atmosphere, 2021, 12, 1681. | 1.0 | 2 |
| 48 | MDPI Oceans: A New Publication Channel for Open Access Science Focused on the Ocean. Oceans, 2019, 1, 1-5. | 0.6 | 1 |