Scot T Martin

List of Publications by Year in descending order

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41323 54882 8,180 120 49 84 citations h-index g-index papers 129 129 129 6339 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | How do aerosols above the residual layer affect the planetary boundary layer height?. Science of the Total Environment, 2022, 814, 151953. | 3.9 | 30 |
| 2 | Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. ACS Earth and Space Chemistry, 2022, 6, 380-390. | 1.2 | 11 |
| 3 | Rapid growth of anthropogenic organic nanoparticles greatly alters cloud life cycle in the Amazon rainforest. Science Advances, 2022, 8, eabj0329. | 4.7 | 19 |
| 4 | Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 1.2 | 6 |
| 5 | Phase Behavior of Internal Mixtures of Hydrocarbon-like Primary Organic Aerosol and Secondary Aerosol Based on Their Differences in Oxygen-to-Carbon Ratios. Environmental Science & Dry; Technology, 2022, 56, 3960-3973. | 4.6 | 12 |
| 6 | Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning. ACS Earth and Space Chemistry, 2022, 6, 1059-1066. | 1.2 | 8 |
| 7 | Partitioning of Organonitrates in the Production of Secondary Organic Aerosols from α-Pinene Photo-Oxidation. Environmental Science & Technology, 2022, 56, 5421-5429. | 4.6 | 4 |
| 8 | Liquid-liquid phase separation reduces radiative absorption by aged black carbon aerosols. Communications Earth & Environment, 2022, 3, . | 2.6 | 16 |
| 9 | River Winds and Transport of Forest Volatiles in the Amazonian Riparian Ecoregion. Environmental Science & Econology, 2022, 56, 12667-12677. | 4.6 | 4 |
| 10 | Near-canopy horizontal concentration heterogeneity of semivolatile oxygenated organic compounds and implications for 2-methyltetrols primary emissions. Environmental Science Atmospheres, 2021, 1, 8-20. | 0.9 | 4 |
| 11 | Unmanned Aerial Vehicle Measurements of Volatile Organic Compounds over a Subtropical Forest in China and Implications for Emission Heterogeneity. ACS Earth and Space Chemistry, 2021, 5, 247-256. | 1.2 | 8 |
| 12 | Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , . | 3.3 | 75 |
| 13 | Optimization and Representativeness of Atmospheric Chemical Sampling by Hovering Unmanned Aerial Vehicles Over Tropical Forests. Earth and Space Science, 2021, 8, e2020EA001335. | 1.1 | 8 |
| 14 | Fluorescence Aerosol Flow Tube Spectroscopy to Detect Liquid–Liquid Phase Separation. ACS Earth and Space Chemistry, 2021, 5, 1223-1232. | 1.2 | 18 |
| 15 | Humidity Dependence of the Condensational Growth of \hat{l}_{\pm} -Pinene Secondary Organic Aerosol Particles. Environmental Science & Environmental Scie | 4.6 | 15 |
| 16 | River winds and pollutant recirculation near the Manaus city in the central Amazon. Communications Earth & Environment, $2021, 2, \ldots$ | 2.6 | 8 |
| 17 | Enhanced aerosol particle growth sustained by high continental chlorine emission in India. Nature Geoscience, 2021, 14, 77-84. | 5.4 | 94 |
| 18 | Chemical Characterization and Source Apportionment of Organic Aerosols in the Coastal City of Chennai, India: Impact of Marine Air Masses on Aerosol Chemical Composition and Potential for Secondary Organic Aerosol Formation. ACS Earth and Space Chemistry, 2021, 5, 3197-3209. | 1.2 | 12 |

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|----|--|-----|-----------|
| 19 | Temperature-Dependent Viscosity of Organic Materials Characterized by Atomic Force Microscope. Atmosphere, 2021, 12, 1476. | 1.0 | 3 |
| 20 | Planetary Boundary Layer Height Modulates Aerosolâ€"Water Vapor Interactions During Winter in the Megacity of Delhi. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035681. | 1.2 | 4 |
| 21 | Vertical profiling of fine particulate matter and black carbon by using unmanned aerial vehicle in Macau, China. Science of the Total Environment, 2020, 709, 136109. | 3.9 | 39 |
| 22 | Synergistic Uptake by Acidic Sulfate Particles of Gaseous Mixtures of Glyoxal and Pinanediol. Environmental Science & Environm | 4.6 | 5 |
| 23 | Vertical Profiles of Atmospheric Species Concentrations and Nighttime Boundary Layer Structure in the Dry Season over an Urban Environment in Central Amazon Collected by an Unmanned Aerial Vehicle. Atmosphere, 2020, 11, 1371. | 1.0 | 13 |
| 24 | The Stove, Dome, and Umbrella Effects of Atmospheric Aerosol on the Development of the Planetary Boundary Layer in Hazy Regions. Geophysical Research Letters, 2020, 47, e2020GL087373. | 1.5 | 73 |
| 25 | Fast sulfate formation from oxidation of SO2 by NO2 and HONO observed in Beijing haze. Nature Communications, 2020, 11, 2844. | 5.8 | 161 |
| 26 | Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684. | 1.2 | 12 |
| 27 | Exploration of oxidative chemistry and secondary organic aerosol formation in the Amazon during the wet season: explicit modeling of the Manaus urban plume with GECKO-A. Atmospheric Chemistry and Physics, 2020, 20, 5995-6014. | 1.9 | 9 |
| 28 | Unified Description of Diffusion Coefficients from Small to Large Molecules in Organic–Water Mixtures. Journal of Physical Chemistry A, 2020, 124, 2301-2308. | 1.1 | 19 |
| 29 | Impact of biomass burning on a metropolitan area in the Amazon during the 2015ÂEl Niño: The enhancement of carbon monoxide and levoglucosan concentrations. Environmental Pollution, 2020, 260, 114029. | 3.7 | 14 |
| 30 | Leaf isoprene and monoterpene emission distribution across hyperdominant tree genera in the Amazon basin. Phytochemistry, 2020, 175, 112366. | 1.4 | 21 |
| 31 | Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. Environmental Science & Echnology, 2020, 54, 5980-5991. | 4.6 | 22 |
| 32 | New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002266. | 1.3 | 15 |
| 33 | Synthesis and surface spectroscopy of \hat{I}_{\pm} -pinene isotopologues and their corresponding secondary organic material. Chemical Science, 2019, 10, 8390-8398. | 3.7 | 8 |
| 34 | A sampler for atmospheric volatile organic compounds by copter unmanned aerial vehicles. Atmospheric Measurement Techniques, 2019, 12, 3123-3135. | 1.2 | 40 |
| 35 | Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season. Atmospheric Chemistry and Physics, 2019, 19, 7973-8001. | 1.9 | 36 |
| 36 | The influence that different urban development models has on PM2.5 elemental and bioaccessible profiles. Scientific Reports, 2019, 9, 14846. | 1.6 | 15 |

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|----|--|-------------|-----------|
| 37 | Quantifying the Role of the Relative Humidity-Dependent Physical State of Organic Particulate Matter in the Uptake of Semivolatile Organic Molecules. Environmental Science & | 4.6 | 16 |
| 38 | Intermediate-scale horizontal isoprene concentrations in the near-canopy forest atmosphere and implications for emission heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19318-19323. | 3.3 | 28 |
| 39 | Vertical Profiles of Ozone Concentration Collected by an Unmanned Aerial Vehicle and the Mixing of the Nighttime Boundary Layer over an Amazonian Urban Area. Atmosphere, 2019, 10, 599. | 1.0 | 21 |
| 40 | Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. Environmental Science & Environmenta | 4.6 | 45 |
| 41 | Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. Environmental Science & Envi | 4.6 | 111 |
| 42 | Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046. | 5.8 | 131 |
| 43 | Influence of Particle Surface Area Concentration on the Production of Organic Particulate Matter in a Continuously Mixed Flow Reactor. Environmental Science & Environmental Science & 2019, 53, 4968-4976. | 4.6 | 4 |
| 44 | Chemical composition of ultrafine aerosol particles in central Amazonia during the wet season. Atmospheric Chemistry and Physics, 2019, 19, 13053-13066. | 1.9 | 11 |
| 45 | Observations of particulate matter, NO2, SO2, O3, H2S and selected VOCs at a semi-urban environment in the Amazon region. Science of the Total Environment, 2019, 650, 996-1006. | 3.9 | 21 |
| 46 | Atmospheric \hat{l}^2 -Caryophyllene-Derived Ozonolysis Products at Interfaces. ACS Earth and Space Chemistry, 2019, 3, 158-169. | 1.2 | 10 |
| 47 | The viscosity of atmospherically relevant organic particles. Nature Communications, 2018, 9, 956. | 5.8 | 252 |
| 48 | Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 467-493. | 1.9 | 63 |
| 49 | Isoprene photo-oxidation products quantify the effect of pollution on hydroxyl radicals over Amazonia. Science Advances, 2018, 4, eaar2547. | 4.7 | 28 |
| 50 | Highly Viscous States Affect the Browning of Atmospheric Organic Particulate Matter. ACS Central Science, 2018, 4, 207-215. | 5. 3 | 60 |
| 51 | Substantial convection and precipitation enhancements by ultrafineaerosol particles. Science, 2018, 359, 411-418. | 6.0 | 290 |
| 52 | Impact of the biomass burning on methane variability during dry years in the Amazon measured from an aircraft and the AIRS sensor. Science of the Total Environment, 2018, 624, 509-516. | 3.9 | 9 |
| 53 | Growth Kinetics and Size Distribution Dynamics of Viscous Secondary Organic Aerosol. Environmental Science & Environmental Sci | 4.6 | 85 |
| 54 | Aircraft-based observations of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) in the tropical upper troposphere over the Amazon region. Atmospheric Chemistry and Physics, 2018, 18, 14979-15001. | 1.9 | 39 |

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| 55 | Production and Measurement of Organic Particulate Matter in the Harvard Environmental Chamber. Journal of Visualized Experiments, $2018, , .$ | 0.2 | 3 |
| 56 | Production and Measurement of Organic Particulate Matter in a Flow Tube Reactor. Journal of Visualized Experiments, 2018, , . | 0.2 | 4 |
| 57 | Organosulfates in aerosols downwind of an urban region in central Amazon. Environmental Sciences: Processes and Impacts, 2018, 20, 1546-1558. | 1.7 | 40 |
| 58 | Resolving the mechanisms of hygroscopic growth and cloud condensation nuclei activity for organic particulate matter. Nature Communications, 2018, 9, 4076. | 5.8 | 84 |
| 59 | The Reactivity of Toluene-Derived Secondary Organic Material with Ammonia and the Influence of Water Vapor. Journal of Physical Chemistry A, 2018, 122, 7739-7747. | 1.1 | 10 |
| 60 | Long-term observations of cloud condensation nuclei over the Amazon rain forest $\hat{a} \in \text{``Part 2:}$ Variability and characteristics of biomass burning, long-range transport, and pristine rain forest aerosols. Atmospheric Chemistry and Physics, 2018, 18, 10289-10331. | 1.9 | 64 |
| 61 | Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. Atmospheric Chemistry and Physics, 2018, 18, 10433-10457. | 1.9 | 53 |
| 62 | Aircraft observations of the chemical composition and aging of aerosol in the Manaus urban plume during GoAmazon 2014/5. Atmospheric Chemistry and Physics, 2018, 18, 10773-10797. | 1.9 | 32 |
| 63 | Influence of Particle Physical State on the Uptake of Medium-Sized Organic Molecules. Environmental Science & Environmental Sc | 4.6 | 11 |
| 64 | Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 12185-12206. | 1.9 | 30 |
| 65 | Observations of Manaus urban plume evolution and interaction with biogenic emissions in GoAmazon 2014/5. Atmospheric Environment, 2018, 191, 513-524. | 1.9 | 17 |
| 66 | Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. Atmospheric Chemistry and Physics, 2018, 18, 10433-10457. | 1.9 | 22 |
| 67 | Airborne observations reveal elevational gradient in tropical forest isoprene emissions. Nature Communications, 2017, 8, 15541. | 5.8 | 53 |
| 68 | Monoterpene â€~ <i>thermometer</i> ' of tropical forestâ€atmosphere response to climate warming. Plant, Cell and Environment, 2017, 40, 441-452. | 2.8 | 52 |
| 69 | Cloud Activation Potentials for Atmospheric \hat{l}_{\pm} -Pinene and \hat{l}^2 -Caryophyllene Ozonolysis Products. ACS Central Science, 2017, 3, 715-725. | 5.3 | 40 |
| 70 | Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. Atmospheric Chemistry and Physics, 2017, 17, 6611-6629. | 1.9 | 45 |
| 71 | Anthropogenic influences on the physical state of submicron particulate matter over a tropical forest. Atmospheric Chemistry and Physics, 2017, 17, 1759-1773. | 1.9 | 52 |
| 72 | Liquid–liquid phase separation in particles containing secondary organic material free of inorganic salts. Atmospheric Chemistry and Physics, 2017, 17, 11261-11271. | 1.9 | 45 |

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| 73 | CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. Atmospheric Chemistry and Physics, 2017, 17, 11779-11801. | 1.9 | 71 |
| 74 | Power plant fuel switching and air quality in a tropical, forested environment. Atmospheric Chemistry and Physics, 2017, 17, 8987-8998. | 1.9 | 28 |
| 75 | Elemental Mixing State of Aerosol Particles Collected in Central Amazonia during GoAmazon2014/15. Atmosphere, 2017, 8, 173. | 1.0 | 30 |
| 76 | Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. Reviews of Geophysics, 2017, 55, 509-559. | 9.0 | 548 |
| 77 | Isoprene photochemistry over the Amazon rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6125-6130. | 3.3 | 85 |
| 78 | Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. Environmental Science & Emp; Technology, 2016, 50, 9952-9962. | 4.6 | 69 |
| 79 | Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419. | 13.7 | 112 |
| 80 | Lability of secondary organic particulate matter. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12643-12648. | 3.3 | 93 |
| 81 | Effect of varying experimental conditions on the viscosity of & mp; t; & mp;gt; ±& mp; t; i& mp;gt;-pinene derived secondary organic material. Atmospheric Chemistry and Physics, 2016, 16, 6027-6040. | 1.9 | 79 |
| 82 | Impacts of the Manaus pollution plume on the microphysical properties of Amazonian warm-phase clouds in the wet season. Atmospheric Chemistry and Physics, 2016, 16, 7029-7041. | 1.9 | 29 |
| 83 | Long-term observations of cloud condensation nuclei in the Amazon rain forest – Part 1: Aerosol size distribution, hygroscopicity, and new model parametrizations for CCN prediction. Atmospheric Chemistry and Physics, 2016, 16, 15709-15740. | 1.9 | 105 |
| 84 | Relative humidity-dependent viscosity of secondary organic material from toluene photo-oxidation and possible implications for organic particulate matter over megacities. Atmospheric Chemistry and Physics, 2016, 16, 8817-8830. | 1.9 | 95 |
| 85 | ACRIDICON–CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. Bulletin of the American Meteorological Society, 2016, 97, 1885-1908. | 1.7 | 124 |
| 86 | Sub-micrometre particulate matter is primarily in liquid form over Amazon rainforest. Nature Geoscience, 2016, 9, 34-37. | 5.4 | 99 |
| 87 | Hygroscopic Influence on the Semisolid-to-Liquid Transition of Secondary Organic Materials. Journal of Physical Chemistry A, 2015, 119, 4386-4395. | 1.1 | 112 |
| 88 | Chemical Reactivity and Liquid/Nonliquid States of Secondary Organic Material. Environmental Science & | 4.6 | 74 |
| 89 | Water diffusion in atmospherically relevant \hat{l}_{\pm} -pinene secondary organic material. Chemical Science, 2015, 6, 4876-4883. | 3.7 | 116 |
| 90 | Impactor Apparatus for the Study of Particle Rebound: Relative Humidity and Capillary Forces. Aerosol Science and Technology, 2014, 48, 42-52. | 1.5 | 91 |

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| 91 | An Analytic Equation for the Volume Fraction of Condensationally Grown Mixed Particles and Applications to Secondary Organic Material Produced in Continuously Mixed Flow Reactors. Aerosol Science and Technology, 2014, 48, 803-812. | 1.5 | 5 |
| 92 | Complex Refractive Indices of Thin Films of Secondary Organic Materials by Spectroscopic Ellipsometry from 220 to 1200 nm. Environmental Science & Ellipsometry from 220 to 1200 nm. | 4.6 | 85 |
| 93 | Atmospheric aerosols in Amazonia and land use change: from natural biogenic to biomass burning conditions. Faraday Discussions, 2013, 165, 203. | 1.6 | 207 |
| 94 | Chemically Resolved Particle Fluxes Over Tropical and Temperate Forests. Aerosol Science and Technology, 2013, 47, 818-830. | 1.5 | 27 |
| 95 | Viscosity of $\langle i \rangle \hat{l} \pm \langle i \rangle$ -pinene secondary organic material and implications for particle growth and reactivity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8014-8019. | 3.3 | 388 |
| 96 | Particle Size Distributions following Condensational Growth in Continuous Flow Aerosol Reactors as Derived from Residence Time Distributions: Theoretical Development and Application to Secondary Organic Aerosol. Aerosol Science and Technology, 2012, 46, 937-949. | 1.5 | 22 |
| 97 | Phase of atmospheric secondary organic material affects its reactivity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17354-17359. | 3.3 | 182 |
| 98 | Particle-Phase Chemistry of Secondary Organic Material: Modeled Compared to Measured O:C and H:C Elemental Ratios Provide Constraints. Environmental Science & Elemental Ratios Provide Constraints. | 4.6 | 167 |
| 99 | Stereochemical transfer to atmospheric aerosol particles accompanying the oxidation of biogenic volatile organic compounds. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 18 |
| 100 | Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, . | 9.0 | 283 |
| 101 | Relative roles of biogenic emissions and Saharan dust as ice nuclei in the Amazon basin. Nature Geoscience, 2009, 2, 402-405. | 5.4 | 282 |
| 102 | Hygroscopic behavior and liquidâ€layer composition of aerosol particles generated from natural and artificial seawater. Journal of Geophysical Research, 2009, 114, . | 3.3 | 54 |
| 103 | Deliquescence and Efflorescence of Potassium Salts Relevant to Biomass-Burning Aerosol Particles. Aerosol Science and Technology, 2009, 43, 799-807. | 1.5 | 90 |
| 104 | Global distribution of solid and aqueous sulfate aerosols: Effect of the hysteresis of particle phase transitions. Journal of Geophysical Research, 2008, 113, . | 3.3 | 84 |
| 105 | Sensitivity of sulfate direct climate forcing to the hysteresis of particle phase transitions. Journal of Geophysical Research, 2008, 113 , . | 3.3 | 67 |
| 106 | Phase changes of ambient particles in the Southern Great Plains of Oklahoma. Geophysical Research Letters, 2008, 35, . | 1.5 | 28 |
| 107 | Water Uptake by NaCl Particles Prior to Deliquescence and the Phase Rule. Aerosol Science and Technology, 2008, 42, 281-294. | 1.5 | 84 |
| 108 | Oxaloacetate-to-malate conversion by mineral photoelectrochemistry: implications for the viability of the reductive tricarboxylic acid cycle in prebiotic chemistry. International Journal of Astrobiology, 2008, 7, 271-278. | 0.9 | 29 |

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| 109 | Hygroscopic behavior of NaCl-bearing natural aerosol particles using environmental transmission electron microscopy. Journal of Geophysical Research, 2007, 112 , . | 3.3 | 72 |
| 110 | Satellite characterization of urban aerosols: Importance of including hygroscopicity and mixing state in the retrieval algorithms. Journal of Geophysical Research, 2007, 112 , . | 3.3 | 88 |
| 111 | Cloud condensation nucleus activity of secondary organic aerosol particles mixed with sulfate. Geophysical Research Letters, 2007, 34, . | 1.5 | 68 |
| 112 | Hygroscopic behavior of aerosol particles from biomass fires using environmental transmission electron microscopy. Journal of Atmospheric Chemistry, 2007, 56, 259-273. | 1.4 | 76 |
| 113 | Phase Transitions of Single Salt Particles Studied Using a Transmission Electron Microscope with an Environmental Cell. Aerosol Science and Technology, 2005, 39, 849-856. | 1.5 | 118 |
| 114 | Dissolution rates and pit morphologies of rhombohedral carbonate minerals. American Mineralogist, 2004, 89, 554-563. | 0.9 | 75 |
| 115 | Crystallization of atmospheric sulfate-nitrate-ammonium particles. Geophysical Research Letters, 2003, 30, . | 1.5 | 69 |
| 116 | Solubility and freezing effects of Fe2+and Mg2+in H2SO4 solutions representative of upper tropospheric and lower stratospheric sulfate particles. Journal of Geophysical Research, 2003, 108, . | 3.3 | 16 |
| 117 | Ice Nucleation Kinetics of Aerosols Containing Aqueous and Solid Ammonium Sulfate Particles. Journal of Physical Chemistry A, 2002, 106, 293-306. | 1.1 | 40 |
| 118 | Size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium nitrate particles. Journal of Geophysical Research, 2002, 107, AAC 3-1-AAC 3-9. | 3.3 | 31 |
| 119 | The size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium sulfate particles. Geophysical Research Letters, 2001, 28, 2601-2604. | 1.5 | 50 |
| 120 | Phase Transitions of Aqueous Atmospheric Particles. Chemical Reviews, 2000, 100, 3403-3454. | 23.0 | 661 |