

# Vicki Grassian

## List of Publications by Year in descending order

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Version: 2024-02-01

264  
papers

17,707  
citations

10956

71  
h-index

16605

123  
g-index

271  
all docs

271  
docs citations

271  
times ranked

17617  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                                | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Nanoscopic Study of Water Uptake on Glass Surfaces with Organic Thin Films and Particles from Exposure to Indoor Cooking Activities: Comparison to Model Systems. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1594-1604.                                 | 4.6 | 4         |
| 2  | How should we define an indoor surface?. <i>Indoor Air</i> , 2022, 32, e12955.                                                                                                                                                                                         | 2.0 | 11        |
| 3  | The rapid acidification of sea spray aerosols. <i>Physics Today</i> , 2022, 75, 58-59.                                                                                                                                                                                 | 0.3 | 3         |
| 4  | Absorption Spectra and the Electronic Structure of Gallic Acid in Water at Different pH: Experimental Data and Theoretical Cluster Models. <i>Journal of Physical Chemistry A</i> , 2022, 126, 190-197.                                                                | 1.1 | 4         |
| 5  | The Sea Spray Chemistry and Particle Evolution study (SeaSCAPE): overview and experimental methods. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 290-315.                                                                                          | 1.7 | 11        |
| 6  | Monoethanolamine adsorption on oxide surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 75-83.                                                                                                                                                     | 5.0 | 2         |
| 7  | Amino Acids Are Driven to the Interface by Salts and Acidic Environments. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2824-2829.                                                                                                                          | 2.1 | 14        |
| 8  | Attenuated Total Reflection-Fourier Transform Infrared and Atomic Force Microscopy-Infrared Spectroscopic Investigation of Suwannee River Fulvic Acid and Its Interactions with $\text{Fe}^{\text{II}}$ -FeOOH. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 81-89. | 1.2 | 6         |
| 9  | Size-Dependent Morphology, Composition, Phase State, and Water Uptake of Nascent Submicrometer Sea Spray Aerosols during a Phytoplankton Bloom. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 116-130.                                                               | 1.2 | 12        |
| 10 | Photoacoustic Enhancement of Ferricyanide-Treated Silver Chalcogenide-Coated Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7605-7614.                                                                                                             | 1.5 | 4         |
| 11 | Heterogeneous Reactions of $\alpha$ -Pinene on Mineral Surfaces: Formation of Organonitrates and $\alpha$ -Pinene Oxidation Products. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4068-4079.                                                                   | 1.1 | 9         |
| 12 | Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistry—A Career Perspective. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5598-5604.                                                                                          | 1.2 | 1         |
| 13 | Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistry—A Career Perspective. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12320-12326.                                                                                        | 1.5 | 2         |
| 14 | Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistry—A Career Perspective. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4874-4880.                                                                                          | 1.1 | 1         |
| 15 | Why Indoor Chemistry Matters: A National Academies Consensus Report. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10560-10563.                                                                                                                            | 4.6 | 12        |
| 16 | Mechanistic study of oil adsorption onto PVP-coated magnetic nanoparticles: an integrated experimental and molecular dynamics study to inform remediation. <i>Environmental Science: Nano</i> , 2021, 8, 485-492.                                                      | 2.2 | 4         |
| 17 | Emerging investigator series: chemical and physical properties of organic mixtures on indoor surfaces during HOMEChem. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 559-568.                                                                       | 1.7 | 12        |
| 18 | Interaction of beta-lactoglobulin and bovine serum albumin with iron oxide ( $\text{Fe}_2\text{O}_3$ ) nanoparticles in the presence and absence of pre-adsorbed phosphate. <i>Environmental Science: Nano</i> , 2021, 8, 2811-2823.                                   | 2.2 | 2         |

| #  | ARTICLE                                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Linking Solid-State Reduction Mechanisms to Size-Dependent Reactivity of Metal Oxide Oxygen Carriers for Chemical Looping Combustion. ACS Applied Energy Materials, 2021, 4, 1163-1172.                                                           | 2.5 | 14        |
| 20 | Adsorption of constitutional isomers of cyclic monoterpenes on hydroxylated silica surfaces. Journal of Chemical Physics, 2021, 154, 124703.                                                                                                      | 1.2 | 10        |
| 21 | Heterogeneous Interactions of Prevalent Indoor Oxygenated Organic Compounds on Hydroxylated SiO <sub>2</sub> Surfaces. Environmental Science & Technology, 2021, 55, 6623-6630.                                                                   | 4.6 | 9         |
| 22 | Cation-Driven Lipopolysaccharide Morphological Changes Impact Heterogeneous Reactions of Nitric Acid with Sea Spray Aerosol Particles. Journal of Physical Chemistry Letters, 2021, 12, 5023-5029.                                                | 2.1 | 6         |
| 23 | Environmental Aspects of Oxide Nanoparticles: Probing Oxide Nanoparticle Surface Processes Under Different Environmental Conditions. Annual Review of Analytical Chemistry, 2021, 14, 489-514.                                                    | 2.8 | 11        |
| 24 | Enhanced Rates of Transition-Metal-Ion-Catalyzed Oxidation of S(IV) in Aqueous Aerosols: Insights into Sulfate Aerosol Formation in the Atmosphere. Environmental Science & Technology, 2021, 55, 10291-10299.                                    | 4.6 | 28        |
| 25 | Ice Nucleating Activity and Residual Particle Morphology of Bulk Seawater and Sea Surface Microlayer. ACS Earth and Space Chemistry, 2021, 5, 1916-1928.                                                                                          | 1.2 | 12        |
| 26 | HONO Production from Gypsum Surfaces Following Exposure to NO <sub>2</sub> and HNO <sub>3</sub> : Roles of Relative Humidity and Light Source. Environmental Science & Technology, 2021, 55, 9761-9772.                                           | 4.6 | 14        |
| 27 | Toward a microscopic model of light absorbing dissolved organic compounds in aqueous environments: theoretical and experimental study. Physical Chemistry Chemical Physics, 2021, 23, 10487-10497.                                                | 1.3 | 7         |
| 28 | Acidity across the interface from the ocean surface to sea spray aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .                                                                           | 3.3 | 73        |
| 29 | Low-Temperature Water Uptake of Individual Marine and Biologically Relevant Atmospheric Particles Using Micro-Raman Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 9691-9699.                                                          | 1.1 | 7         |
| 30 | Nitrous Acid (HONO) Formation from the Irradiation of Aqueous Nitrate Solutions in the Presence of Marine Chromophoric Dissolved Organic Matter: Comparison to Other Organic Photosensitizers. ACS Earth and Space Chemistry, 2021, 5, 3056-3064. | 1.2 | 15        |
| 31 | Atmospheric Benzothiazoles in a Coastal Marine Environment. Environmental Science & Technology, 2021, 55, 15705-15714.                                                                                                                            | 4.6 | 9         |
| 32 | Temperature-Dependent Liquid Water Structure for Individual Micron-Sized, Supercooled Aqueous Droplets with Inclusions. Journal of Physical Chemistry A, 2021, 125, 10742-10749.                                                                  | 1.1 | 8         |
| 33 | Impact of surface adsorbed biologically and environmentally relevant coatings on TiO <sub>2</sub> nanoparticle reactivity. Environmental Science: Nano, 2020, 7, 3783-3793.                                                                       | 2.2 | 11        |
| 34 | Radical-Initiated Formation of Aromatic Organosulfates and Sulfonates in the Aqueous Phase. Environmental Science & Technology, 2020, 54, 11857-11864.                                                                                            | 4.6 | 23        |
| 35 | Physicochemical Mixing State of Sea Spray Aerosols: Morphologies Exhibit Size Dependence. ACS Earth and Space Chemistry, 2020, 4, 1604-1611.                                                                                                      | 1.2 | 18        |
| 36 | Insights into the behavior of nonanoic acid and its conjugate base at the air/water interface through a combined experimental and theoretical approach. Chemical Science, 2020, 11, 10647-10656.                                                  | 3.7 | 21        |

| #  | ARTICLE                                                                                                                                                                                                                                        | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Glass surface evolution following gas adsorption and particle deposition from indoor cooking events as probed by microspectroscopic analysis. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1698-1709.                      | 1.7 | 18        |
| 38 | Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. <i>Chem</i> , 2020, 6, 3203-3218.                                                                                                                  | 5.8 | 70        |
| 39 | Temperature-Dependent Phase Transitions of Aqueous Aerosol Droplet Systems in Microfluidic Traps. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1527-1539.                                                                                   | 1.2 | 12        |
| 40 | CuS nanoparticles in humid environments: adsorbed water enhances the transformation of CuS to CuSO <sub>4</sub> . <i>Nanoscale</i> , 2020, 12, 19350-19358.                                                                                    | 2.8 | 29        |
| 41 | Nucleotide Adsorption on Iron(III) Oxide Nanoparticle Surfaces: Insights into Nano-Geo-Bio Interactions Through Vibrational Spectroscopy. <i>Langmuir</i> , 2020, 36, 15501-15513.                                                             | 1.6 | 17        |
| 42 | Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. <i>Cell Reports Physical Science</i> , 2020, 1, 100256.                                                                                                  | 2.8 | 22        |
| 43 | Absorption spectra of pyruvic acid in water: insights from calculations for small hydrates and comparison to experiment. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12658-12670.                                                   | 1.3 | 19        |
| 44 | Organic Enrichment, Physical Phase State, and Surface Tension Depression of Nascent Core-Shell Sea Spray Aerosols during Two Phytoplankton Blooms. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 650-660.                                    | 1.2 | 29        |
| 45 | Absorption spectra of benzoic acid in water at different pH and in the presence of salts: insights from the integration of experimental data and theoretical cluster models. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5046-5056. | 1.3 | 28        |
| 46 | Liquid Sampling-Atmospheric Pressure Glow Discharge Ionization as a Technique for the Characterization of Salt-Containing Organic Samples. <i>Analytical Chemistry</i> , 2020, 92, 8845-8851.                                                  | 3.2 | 6         |
| 47 | Impact of pH and NaCl and CaCl <sub>2</sub> Salts on the Speciation and Photochemistry of Pyruvic Acid in the Aqueous Phase. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5071-5080.                                                    | 1.1 | 18        |
| 48 | Impact of Adsorbed Water on the Interaction of Limonene with Hydroxylated SiO <sub>2</sub> : Implications of H-Hydrogen Bonding for Surfaces in Humid Environments. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10592-10599.           | 1.1 | 16        |
| 49 | Building Bridges between Sustainability and Chemistry in Education and Outreach. <i>ACS Symposium Series</i> , 2020, , 45-53.                                                                                                                  | 0.5 | 1         |
| 50 | Measurements of Immersion Freezing and Heterogeneous Chemistry of Atmospherically Relevant Single Particles with Micro-Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 11138-11145.                                                | 3.2 | 14        |
| 51 | The Old and the New: Aging of Sea Spray Aerosol and Formation of Secondary Marine Aerosol through OH Oxidation Reactions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2307-2314.                                                           | 1.2 | 24        |
| 52 | Formation of Organosulfur Compounds from Aqueous Phase Reactions of S(IV) with Methacrolein and Methyl Vinyl Ketone in the Presence of Transition Metal Ions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1749-1755.                       | 1.2 | 13        |
| 53 | Chemistry and Photochemistry of Pyruvic Acid Adsorbed on Oxide Surfaces. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7661-7671.                                                                                                        | 1.1 | 12        |
| 54 | Plasma protein adsorption on TiO <sub>2</sub> nanoparticles: Impact of surface adsorption on temperature-dependent structural changes. <i>Polyhedron</i> , 2019, 171, 147-154.                                                                 | 1.0 | 18        |

| #  | ARTICLE                                                                                                                                                                                                                                                  | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1280-1300.                                                                                           | 1.7  | 140       |
| 56 | Titration of Aerosol pH through Droplet Coalescence. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4476-4483.                                                                                                                                 | 2.1  | 29        |
| 57 | pH-dependent adsorption of $\hat{\pm}$ -amino acids, lysine, glutamic acid, serine and glycine, on TiO <sub>2</sub> nanoparticle surfaces. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 362-375.                                         | 5.0  | 59        |
| 58 | Heterogeneous Interactions between Gas-Phase Pyruvic Acid and Hydroxylated Silica Surfaces: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 983-991.                                                  | 1.1  | 23        |
| 59 | Salting Up of Proteins at the Air/Water Interface. <i>Langmuir</i> , 2019, 35, 13815-13820.                                                                                                                                                              | 1.6  | 15        |
| 60 | Displacement reactions between environmentally and biologically relevant ligands on TiO <sub>2</sub> nanoparticles: insights into the aging of nanoparticles in the environment. <i>Environmental Science: Nano</i> , 2019, 6, 489-504.                  | 2.2  | 20        |
| 61 | A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO <sub>2</sub> . <i>Chemical Science</i> , 2019, 10, 2906-2914.                                                                  | 3.7  | 52        |
| 62 | Size, composition, morphology, and health implications of airborne incidental metal-containing nanoparticles. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 387-399.                                                              | 0.4  | 11        |
| 63 | Surfactant Charge Modulates Structure and Stability of Lipase-Embedded Monolayers at Marine-Relevant Aerosol Surfaces. <i>Langmuir</i> , 2019, 35, 9050-9060.                                                                                            | 1.6  | 8         |
| 64 | Shedding Light on Photosensitized Reactions within Marine-Relevant Organic Thin Films. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1614-1623.                                                                                                        | 1.2  | 21        |
| 65 | Increasing the Efficacy of Stem Cell Therapy <i>via</i> Triple-Function Inorganic Nanoparticles. <i>ACS Nano</i> , 2019, 13, 6605-6617.                                                                                                                  | 7.3  | 44        |
| 66 | Detection of Active Microbial Enzymes in Nascent Sea Spray Aerosol: Implications for Atmospheric Chemistry and Climate. <i>Environmental Science and Technology Letters</i> , 2019, 6, 171-177.                                                          | 3.9  | 28        |
| 67 | Methane Dissociation on $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> (0001) and Fe <sub>3</sub> O <sub>4</sub> (111) Surfaces: First-Principles Insights into Chemical Looping Combustion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6450-6463. | 1.5  | 23        |
| 68 | Zeolites and Mesoporous Silica: From Greener Synthesis to Surface Chemistry of Environmental and Biological Interactions. , 2019, , 375-397.                                                                                                             |      | 2         |
| 69 | Influence of Glyoxal on the Catalytic Oxidation of S(IV) in Acidic Aqueous Media. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 142-149.                                                                                                               | 1.2  | 9         |
| 70 | What Is the Driving Force behind the Adsorption of Hydrophobic Molecules on Hydrophilic Surfaces?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 468-473.                                                                                     | 2.1  | 27        |
| 71 | Sea spray aerosol chemical composition: elemental and molecular mimics for laboratory studies of heterogeneous and multiphase reactions. <i>Chemical Society Reviews</i> , 2018, 47, 2374-2400.                                                          | 18.7 | 117       |
| 72 | Optical Property Measurements and Single Particle Analysis of Secondary Organic Aerosol Produced from the Aqueous-Phase Reaction of Ammonium Sulfate with Methylglyoxal. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 356-365.                        | 1.2  | 8         |

| #  | ARTICLE                                                                                                                                                                                                                                                                                            | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Lab on a tip: atomic force microscopy " photothermal infrared spectroscopy of atmospherically relevant organic/inorganic aerosol particles in the nanometer to micrometer size range. <i>Analyst</i> , The, 2018, 143, 2765-2774.                                                                  | 1.7 | 25        |
| 74 | Surface Adsorption of Suwannee River Humic Acid on TiO <sub>2</sub> Nanoparticles: A Study of pH and Particle Size. <i>Langmuir</i> , 2018, 34, 3136-3145.                                                                                                                                         | 1.6 | 76        |
| 75 | Physicochemical properties of air discharge-generated manganese oxide nanoparticles: comparison to welding fumes. <i>Environmental Science: Nano</i> , 2018, 5, 696-707.                                                                                                                           | 2.2 | 22        |
| 76 | Tribute to Veronica Vaida. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1157-1158.                                                                                                                                                                                                          | 1.1 | 0         |
| 77 | Ice nucleation by particles containing long-chain fatty acids of relevance to freezing by sea spray aerosols. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1559-1569.                                                                                                          | 1.7 | 37        |
| 78 | Sea Spray Aerosol: Where Marine Biology Meets Atmospheric Chemistry. <i>ACS Central Science</i> , 2018, 4, 1617-1623.                                                                                                                                                                              | 5.3 | 36        |
| 79 | Optical Properties of Humic Material Standards: Solution Phase and Aerosol Measurements. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1102-1111.                                                                                                                                                | 1.2 | 15        |
| 80 | Particle Concentrations in Occupational Settings Measured with a Nanoparticle Respiratory Deposition (NRD) Sampler. <i>Annals of Work Exposures and Health</i> , 2018, 62, 699-710.                                                                                                                | 0.6 | 7         |
| 81 | Formation of Organosulfur Compounds through Transition Metal Ion-Catalyzed Aqueous Phase Reactions. <i>Environmental Science and Technology Letters</i> , 2018, 5, 315-321.                                                                                                                        | 3.9 | 19        |
| 82 | A Mesocosm Double Feature: Insights into the Chemical Makeup of Marine Ice Nucleating Particles. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 2405-2423.                                                                                                                                | 0.6 | 67        |
| 83 | Gas "Liquid Interfaces in the Atmosphere. , 2018, , 271-313.                                                                                                                                                                                                                                       |     | 6         |
| 84 | Impacts of Lipase Enzyme on the Surface Properties of Marine Aerosols. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3839-3849.                                                                                                                                                          | 2.1 | 19        |
| 85 | Surface adsorption of Nordic aquatic fulvic acid on amine-functionalized and non-functionalized mesoporous silica nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 2162-2171.                                                                                                          | 2.2 | 21        |
| 86 | Crystal Clear? Microspectroscopic Imaging and Physicochemical Characterization of Indoor Depositions on Window Glass. <i>Environmental Science and Technology Letters</i> , 2018, 5, 514-519.                                                                                                      | 3.9 | 27        |
| 87 | Let there be light: stability of palmitic acid monolayers at the air/salt water interface in the presence and absence of simulated solar light and a photosensitizer. <i>Chemical Science</i> , 2018, 9, 5716-5723.                                                                                | 3.7 | 37        |
| 88 | ±-Fe <sub>2</sub> O <sub>3</sub> Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: An Integrated Materials Characterization Approach to Understanding Oxygen Carrier Performance, Reduction Mechanism, and Particle Size Effects. <i>Energy &amp; Fuels</i> , 2018, 32, 7959-7970. | 2.5 | 33        |
| 89 | Environmental Science: Nano " news, progress and impact. <i>Environmental Science: Nano</i> , 2017, 4, 11-11.                                                                                                                                                                                      | 2.2 | 2         |
| 90 | Bovine serum albumin adsorption on SiO <sub>2</sub> and TiO <sub>2</sub> nanoparticle surfaces at circumneutral and acidic pH: A tale of two nano-bio surface interactions. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 334-341.                                                  | 5.0 | 109       |

| #   | ARTICLE                                                                                                                                                                                                                                             | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Adsorption of bovine serum albumin on silicon dioxide nanoparticles: Impact of $pH$ on nanoparticle-protein interactions. <i>Biointerphases</i> , 2017, 12, 02D404.                                                                                 | 0.6 | 48        |
| 92  | Molecular Diversity of Sea Spray Aerosol Particles: Impact of Ocean Biology on Particle Composition and Hygroscopicity. <i>CheM</i> , 2017, 2, 655-667.                                                                                             | 5.8 | 111       |
| 93  | Co <sub>3</sub> O <sub>4</sub> nanoparticles as oxygen carriers for chemical looping combustion: A materials characterization approach to understanding oxygen carrier performance. <i>Chemical Engineering Journal</i> , 2017, 319, 279-287.       | 6.6 | 64        |
| 94  | Sea Spray Aerosol: The Chemical Link between the Oceans, Atmosphere, and Climate. <i>Accounts of Chemical Research</i> , 2017, 50, 599-604.                                                                                                         | 7.6 | 84        |
| 95  | Direct Surface Tension Measurements of Individual Sub-Micrometer Particles Using Atomic Force Microscopy. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8296-8305.                                                                            | 1.1 | 42        |
| 96  | Bovine Serum Albumin Adsorption on TiO <sub>2</sub> Nanoparticle Surfaces: Effects of pH and Coadsorption of Phosphate on Protein-Surface Interactions and Protein Structure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21763-21771.      | 1.5 | 63        |
| 97  | Linking hygroscopicity and the surface microstructure of model inorganic salts, simple and complex carbohydrates, and authentic sea spray aerosol particles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21101-21111.                    | 1.3 | 65        |
| 98  | Rapid analysis of the size distribution of metal-containing aerosol. <i>Aerosol Science and Technology</i> , 2017, 51, 108-115.                                                                                                                     | 1.5 | 3         |
| 99  | Biological Impacts on Carbon Speciation and Morphology of Sea Spray Aerosol. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 551-561.                                                                                                               | 1.2 | 36        |
| 100 | Poly(isophthalic acid)(ethylene oxide) as a Macromolecular Modulator for Metal-Organic Polyhedra. <i>Journal of the American Chemical Society</i> , 2016, 138, 9646-9654.                                                                           | 6.6 | 61        |
| 101 | Environmental Science: Nano - immediacy index and more. <i>Environmental Science: Nano</i> , 2016, 3, 234-235.                                                                                                                                      | 2.2 | 1         |
| 102 | Selectivity Across the Interface: A Test of Surface Activity in the Composition of Organic-Enriched Aerosols from Bubble Bursting. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1692-1696.                                               | 2.1 | 70        |
| 103 | Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. <i>ACS Central Science</i> , 2016, 2, 40-47.                                                                                                          | 5.3 | 74        |
| 104 | Porous polyurethane foam for use as a particle collection substrate in a nanoparticle respiratory deposition sampler. <i>Aerosol Science and Technology</i> , 2016, 50, 497-506.                                                                    | 1.5 | 10        |
| 105 | Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11511-11520.                                                                         | 4.6 | 90        |
| 106 | Atmospheric chemistry of bioaerosols: heterogeneous and multiphase reactions with atmospheric oxidants and other trace gases. <i>Chemical Science</i> , 2016, 7, 6604-6616.                                                                         | 3.7 | 109       |
| 107 | Heterogeneous Chemistry of Lipopolysaccharides with Gas-Phase Nitric Acid: Reactive Sites and Reaction Pathways. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6444-6450.                                                                     | 1.1 | 22        |
| 108 | Role of Atmospheric CO <sub>2</sub> and H <sub>2</sub> O Adsorption on ZnO and CuO Nanoparticle Aging: Formation of New Surface Phases and the Impact on Nanoparticle Dissolution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19195-19203. | 1.5 | 57        |



| #   | ARTICLE                                                                                                                                                                                                                     | IF   | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Environmental Science: Nano – Editors' symposium, revised scope and first impact factor. Environmental Science: Nano, 2016, 3, 695-695.                                                                                     | 2.2  | 0         |
| 110 | Sulfate formation catalyzed by coal fly ash, mineral dust and iron(iii) oxide: variable influence of temperature and light. Environmental Sciences: Processes and Impacts, 2016, 18, 1484-1491.                             | 1.7  | 17        |
| 111 | Measurement of size-dependent dynamic shape factors of quartz particles in two flow regimes. Aerosol Science and Technology, 2016, 50, 870-879.                                                                             | 1.5  | 17        |
| 112 | Heterogeneous Reactions of Acetic Acid with Oxide Surfaces: Effects of Mineralogy and Relative Humidity. Journal of Physical Chemistry A, 2016, 120, 5609-5616.                                                             | 1.1  | 43        |
| 113 | Water Uptake and Hygroscopic Growth of Organosulfate Aerosol. Environmental Science & Technology, 2016, 50, 4259-4268.                                                                                                      | 4.6  | 54        |
| 114 | Competition between Displacement and Dissociation of a Strong Acid Compared to a Weak Acid Adsorbed on Silica Particle Surfaces: The Role of Adsorbed Water. Journal of Physical Chemistry A, 2016, 120, 4016-4024.         | 1.1  | 30        |
| 115 | Optical and Physicochemical Properties of Brown Carbon Aerosol: Light Scattering, FTIR Extinction Spectroscopy, and Hygroscopic Growth. Journal of Physical Chemistry A, 2016, 120, 4155-4166.                              | 1.1  | 42        |
| 116 | Sea spray aerosol as a unique source of ice nucleating particles. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5797-5803.                                                    | 3.3  | 323       |
| 117 | Interactions of Water with Mineral Dust Aerosol: Water Adsorption, Hygroscopicity, Cloud Condensation, and Ice Nucleation. Chemical Reviews, 2016, 116, 4205-4259.                                                          | 23.0 | 296       |
| 118 | Size-dependent cytotoxicity of copper oxide nanoparticles in lung epithelial cells. Environmental Science: Nano, 2016, 3, 365-374.                                                                                          | 2.2  | 78        |
| 119 | Analysis of Organic Anionic Surfactants in Fine and Coarse Fractions of Freshly Emitted Sea Spray Aerosol. Environmental Science & Technology, 2016, 50, 2477-2486.                                                         | 4.6  | 143       |
| 120 | Quantifying the Hygroscopic Growth of Individual Submicrometer Particles with Atomic Force Microscopy. Analytical Chemistry, 2016, 88, 3647-3654.                                                                           | 3.2  | 50        |
| 121 | Nano-Bio Interactions of Porous and Nonporous Silica Nanoparticles of Varied Surface Chemistry: A Structural, Kinetic, and Thermodynamic Study of Protein Adsorption from RPMI Culture Medium. Langmuir, 2016, 32, 731-742. | 1.6  | 45        |
| 122 | Silica nanoparticle-generated ROS as a predictor of cellular toxicity: mechanistic insights and safety by design. Environmental Science: Nano, 2016, 3, 56-66.                                                              | 2.2  | 128       |
| 123 | Accurate quantification of $\text{TiO}_2$ nanoparticles collected on air filters using a microwave-assisted acid digestion method. Journal of Occupational and Environmental Hygiene, 2016, 13, 30-39.                      | 0.4  | 22        |
| 124 | NanoEHS – defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.                                                                                  | 2.2  | 53        |
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