Vicki Grassian

List of Publications by Year
in descending order

264 papers	17,707 citations	10979 71 h-index	16636 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. Environmental Science & Technology, 2022, 56, 1594-1604.	4.6	4
2	How should we define an indoor surface?. Indoor Air, 2022, 32, e12955.	2.0	11
3	The rapid acidification of sea spray aerosols. Physics Today, 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. Journal of Physical Chemistry A, 2022, 126, 190-197.	1.1	4
5	The Sea Spray Chemistry and Particle Evolution study (SeaSCAPE): overview and experimental methods. Environmental Sciences: Processes and Impacts, 2022, 24, 290-315.	1.7	11
6	Monoethanolamine adsorption on oxide surfaces. Journal of Colloid and Interface Science, 2022, 614, 75-83.	5.0	2
7	Amino Acids Are Driven to the Interface by Salts and Acidic Environments. Journal of Physical Chemistry Letters, 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 Î±-FeOOH. ACS Earth and Space Chemistry, 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. ACS Earth and Space Chemistry, 2022, 6, 116-130.	1.2	12
10	Photoacoustic Enhancement of Ferricyanide-Treated Silver Chalcogenide-Coated Gold Nanorods. Journal of Physical Chemistry C, 2022, 126, 7605-7614.	1.5	4
11	Heterogeneous Reactions of Î±-Pinene on Mineral Surfaces: Formation of Organonitrates and Î±-Pinene Oxidation Products. Journal of Physical Chemistry A, 2022, 126, 4068-4079.	1.1	9
12	Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistryâ”€A Career Perspective. Journal of Physical Chemistry B, 2022, 126, 5598-5604.	1.2	1
13	Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistryâ”€A Career Perspective. Journal of Physical Chemistry C, 2022, 126, 12320-12326.	1.5	2
14	Physical Chemistry of Environmental Interfaces and the Environment in Physical Chemistryâ”€A Career Perspective. Journal of Physical Chemistry A, 2022, 126, 4874-4880.	1.1	1
15	Why Indoor Chemistry Matters: A National Academies Consensus Report. Environmental Science & Technology, 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. Environmental Science: Nano, 2021, 8, 485-492.	2.2	4
17	Emerging investigator series: chemical and physical properties of organic mixtures on indoor surfaces during HOMEChem. Environmental Sciences: Processes and Impacts, 2021, 23, 559-568.	1.7	12
18	Interaction of beta-lactoglobulin and bovine serum albumin with iron oxide (Î±-Fe₂O₃) nanoparticles in the presence and absence of pre-adsorbed phosphate. Environmental Science: Nano, 2021, 8, 2811-2823.	2.2	2

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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 SiO2 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 NO₂ and HNO₃: 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 TiO₂ 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

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37	Glass surface evolution following gas adsorption and particle deposition from indoor cooking events as probed by microspectroscopic analysis. Environmental Sciences: Processes and Impacts, 2020, 22, 1698-1709.	1.7	18
38	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. CheM, 2020, 6, 3203-3218.	5.8	70
39	Temperature-Dependent Phase Transitions of Aqueous Aerosol Droplet Systems in Microfluidic Traps. ACS Earth and Space Chemistry, 2020, 4, 1527-1539.	1.2	12
40	CuS nanoparticles in humid environments: adsorbed water enhances the transformation of CuS to CuSO₄. Nanoscale, 2020, 12, 19350-19358.	2.8	29
41	Nucleotide Adsorption on Iron(III) Oxide Nanoparticle Surfaces: Insights into Nanoâ€“Geoâ€“Bio Interactions Through Vibrational Spectroscopy. Langmuir, 2020, 36, 15501-15513.	1.6	17
42	Challenges and Opportunities in Molecular-Level Indoor Surface Chemistry and Physics. Cell Reports Physical Science, 2020, 1, 100256.	2.8	22
43	Absorption spectra of pyruvic acid in water: insights from calculations for small hydrates and comparison to experiment. Physical Chemistry Chemical Physics, 2020, 22, 12658-12670.	1.3	19
44	Organic Enrichment, Physical Phase State, and Surface Tension Depression of Nascent Coreâ€“Shell Sea Spray Aerosols during Two Phytoplankton Blooms. ACS Earth and Space Chemistry, 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. Physical Chemistry Chemical Physics, 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. Analytical Chemistry, 2020, 92, 8845-8851.	3.2	6
47	Impact of pH and NaCl and CaCl₂ Salts on the Speciation and Photochemistry of Pyruvic Acid in the Aqueous Phase. Journal of Physical Chemistry A, 2020, 124, 5071-5080.	1.1	18
48	Impact of Adsorbed Water on the Interaction of Limonene with Hydroxylated SiO2: Implications of Ï€-Hydrogen Bonding for Surfaces in Humid Environments. Journal of Physical Chemistry A, 2020, 124, 10592-10599.	1.1	16
49	Building Bridges between Sustainability and Chemistry in Education and Outreach. ACS Symposium Series, 2020, , 45-53.	0.5	1
50	Measurements of Immersion Freezing and Heterogeneous Chemistry of Atmospherically Relevant Single Particles with Micro-Raman Spectroscopy. Analytical Chemistry, 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. ACS Earth and Space Chemistry, 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. ACS Earth and Space Chemistry, 2019, 3, 1749-1755.	1.2	13
53	Chemistry and Photochemistry of Pyruvic Acid Adsorbed on Oxide Surfaces. Journal of Physical Chemistry A, 2019, 123, 7661-7671.	1.1	12
54	Plasma protein adsorption on TiO2 nanoparticles: Impact of surface adsorption on temperature-dependent structural changes. Polyhedron, 2019, 171, 147-154.	1.0	18

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55	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. Environmental Sciences: Processes and Impacts, 2019, 21, 1280-1300.	1.7	140
56	Titration of Aerosol pH through Droplet Coalescence. Journal of Physical Chemistry Letters, 2019, 10, 4476-4483.	2.1	29
57	pH-dependent adsorption of Î±-amino acids, lysine, glutamic acid, serine and glycine, on TiO2 nanoparticle surfaces. Journal of Colloid and Interface Science, 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. Journal of Physical Chemistry A, 2019, 123, 983-991.	1.1	23
59	Salting Up of Proteins at the Air/Water Interface. Langmuir, 2019, 35, 13815-13820.	1.6	15
60	Displacement reactions between environmentally and biologically relevant ligands on TiO₂ nanoparticles: insights into the aging of nanoparticles in the environment. Environmental Science: Nano, 2019, 6, 489-504.	2.2	20
61	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO₂. Chemical Science, 2019, 10, 2906-2914.	3.7	52
62	Size, composition, morphology, and health implications of airborne incidental metal-containing nanoparticles. Journal of Occupational and Environmental Hygiene, 2019, 16, 387-399.	0.4	11
63	Surfactant Charge Modulates Structure and Stability of Lipase-Embedded Monolayers at Marine-Relevant Aerosol Surfaces. Langmuir, 2019, 35, 9050-9060.	1.6	8
64	Shedding Light on Photosensitized Reactions within Marine-Relevant Organic Thin Films. ACS Earth and Space Chemistry, 2019, 3, 1614-1623.	1.2	21
65	Increasing the Efficacy of Stem Cell Therapy via Triple-Function Inorganic Nanoparticles. ACS Nano, 2019, 13, 6605-6617.	7.3	44
66	Detection of Active Microbial Enzymes in Nascent Sea Spray Aerosol: Implications for Atmospheric Chemistry and Climate. Environmental Science and Technology Letters, 2019, 6, 171-177.	3.9	28
67	Methane Dissociation on Î±-Fe₂O₃(0001) and Fe₃O₄(111) Surfaces: First-Principles Insights into Chemical Looping Combustion. Journal of Physical Chemistry C, 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. ACS Earth and Space Chemistry, 2019, 3, 142-149.	1.2	9
70	What Is the Driving Force behind the Adsorption of Hydrophobic Molecules on Hydrophilic Surfaces?. Journal of Physical Chemistry Letters, 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. Chemical Society Reviews, 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. ACS Earth and Space Chemistry, 2018, 2, 356-365.	1.2	8

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73	Lab on a tip: atomic force microscopy â€“ photothermal infrared spectroscopy of atmospherically relevant organic/inorganic aerosol particles in the nanometer to micrometer size range. Analyst, The, 2018, 143, 2765-2774.	1.7	25
74	Surface Adsorption of Suwannee River Humic Acid on TiO₂ Nanoparticles: A Study of pH and Particle Size. Langmuir, 2018, 34, 3136-3145.	1.6	76
75	Physicochemical properties of air discharge-generated manganese oxide nanoparticles: comparison to welding fumes. Environmental Science: Nano, 2018, 5, 696-707.	2.2	22
76	Tribute to Veronica Vaida. Journal of Physical Chemistry A, 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. Environmental Sciences: Processes and Impacts, 2018, 20, 1559-1569.	1.7	37
78	Sea Spray Aerosol: Where Marine Biology Meets Atmospheric Chemistry. ACS Central Science, 2018, 4, 1617-1623.	5.3	36
79	Optical Properties of Humic Material Standards: Solution Phase and Aerosol Measurements. ACS Earth and Space Chemistry, 2018, 2, 1102-1111.	1.2	15
80	Particle Concentrations in Occupational Settings Measured with a Nanoparticle Respiratory Deposition (NRD) Sampler. Annals of Work Exposures and Health, 2018, 62, 699-710.	0.6	7
81	Formation of Organosulfur Compounds through Transition Metal Ion-Catalyzed Aqueous Phase Reactions. Environmental Science and Technology Letters, 2018, 5, 315-321.	3.9	19
82	A Mesocosm Double Feature: Insights into the Chemical Makeup of Marine Ice Nucleating Particles. Journals of the Atmospheric Sciences, 2018, 75, 2405-2423.	0.6	67
83	Gasâ€“Liquid Interfaces in the Atmosphere. , 2018, , 271-313.		6
84	Impacts of Lipase Enzyme on the Surface Properties of Marine Aerosols. Journal of Physical Chemistry Letters, 2018, 9, 3839-3849.	2.1	19
85	Surface adsorption of Nordic aquatic fulvic acid on amine-functionalized and non-functionalized mesoporous silica nanoparticles. Environmental Science: Nano, 2018, 5, 2162-2171.	2.2	21
86	Crystal Clear? Microspectroscopic Imaging and Physicochemical Characterization of Indoor Depositions on Window Glass. Environmental Science and Technology Letters, 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. Chemical Science, 2018, 9, 5716-5723.	3.7	37
88	Î±-Fe₂O₃ Nanoparticles as Oxygen Carriers for Chemical Looping Combustion: An Integrated Materials Characterization Approach to Understanding Oxygen Carrier Performance, Reduction Mechanism, and Particle Size Effects. Energy & Fuels, 2018, 32, 7959-7970.	2.5	33
89	Environmental Science: Nano â€“ news, progress and impact. Environmental Science: Nano, 2017, 4, 11-11.	2.2	2
90	Bovine serum albumin adsorption on SiO2 and TiO2 nanoparticle surfaces at circumneutral and acidic pH: A tale of two nano-bio surface interactions. Journal of Colloid and Interface Science, 2017, 493, 334-341.	5.0	109

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91	Adsorption of bovine serum albumin on silicon dioxide nanoparticles: Impact of pH on nanoparticleâ€“protein interactions. Biointerphases, 2017, 12, 02D404.	0.6	48
92	Molecular Diversity of Sea Spray Aerosol Particles: Impact of Ocean Biology on Particle Composition and Hygroscopicity. CheM, 2017, 2, 655-667.	5.8	111
93	Co3O4 nanoparticles as oxygen carriers for chemical looping combustion: A materials characterization approach to understanding oxygen carrier performance. Chemical Engineering Journal, 2017, 319, 279-287.	6.6	64
94	Sea Spray Aerosol: The Chemical Link between the Oceans, Atmosphere, and Climate. Accounts of Chemical Research, 2017, 50, 599-604.	7.6	84
95	Direct Surface Tension Measurements of Individual Sub-Micrometer Particles Using Atomic Force Microscopy. Journal of Physical Chemistry A, 2017, 121, 8296-8305.	1.1	42
96	Bovine Serum Albumin Adsorption on TiO₂ Nanoparticle Surfaces: Effects of pH and Coadsorption of Phosphate on Proteinâ€“Surface Interactions and Protein Structure. Journal of Physical Chemistry C, 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. Physical Chemistry Chemical Physics, 2017, 19, 21101-21111.	1.3	65
98	Rapid analysis of the size distribution of metal-containing aerosol. Aerosol Science and Technology, 2017, 51, 108-115.	1.5	3
99	Biological Impacts on Carbon Speciation and Morphology of Sea Spray Aerosol. ACS Earth and Space Chemistry, 2017, 1, 551-561.	1.2	36
100	Poly(isophthalic acid)(ethylene oxide) as a Macromolecular Modulator for Metalâ€“Organic Polyhedra. Journal of the American Chemical Society, 2016, 138, 9646-9654.	6.6	61
101	Environmental Science: Nano â€“ immediacy index and more. Environmental Science: Nano, 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. Journal of Physical Chemistry Letters, 2016, 7, 1692-1696.	2.1	70
103	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. ACS Central Science, 2016, 2, 40-47.	5.3	74
104	Porous polyurethane foam for use as a particle collection substrate in a nanoparticle respiratory deposition sampler. Aerosol Science and Technology, 2016, 50, 497-506.	1.5	10
105	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. Environmental Science & Technology, 2016, 50, 11511-11520.	4.6	90
106	Atmospheric chemistry of bioaerosols: heterogeneous and multiphase reactions with atmospheric oxidants and other trace gases. Chemical Science, 2016, 7, 6604-6616.	3.7	109
107	Heterogeneous Chemistry of Lipopolysaccharides with Gas-Phase Nitric Acid: Reactive Sites and Reaction Pathways. Journal of Physical Chemistry A, 2016, 120, 6444-6450.	1.1	22
108	Role of Atmospheric CO₂ and H₂O Adsorption on ZnO and CuO Nanoparticle Aging: Formation of New Surface Phases and the Impact on Nanoparticle Dissolution. Journal of Physical Chemistry C, 2016, 120, 19195-19203.	1.5	57

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109	Environmental Science: Nano â€“ 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	Nanoâ€“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 tio₂nanoparticles 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 â€“ defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.	2.2	53
125	Humidity-dependent surface tension measurements of individual inorganic and organic submicrometre liquid particles. Chemical Science, 2015, 6, 3242-3247.	3.7	56
126	Size Matters in the Water Uptake and Hygroscopic Growth of Atmospherically Relevant Multicomponent Aerosol Particles. Journal of Physical Chemistry A, 2015, 119, 4489-4497.	1.1	110

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127	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. Journal of Physical Chemistry A, 2015, 119, 8860-8870.	1.1	62
128	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. ACS Central Science, 2015, 1, 124-131.	5.3	172
129	Environmental Science: Nano â€“ the first year a successful launch. Environmental Science: Nano, 2015, 2, 9-10.	2.2	0
130	Optical properties of selected components of mineral dust aerosol processed with organic acids and humic material. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2437-2452.	1.2	18
131	A Granular Bed for Use in a Nanoparticle Respiratory Deposition Sampler. Aerosol Science and Technology, 2015, 49, 179-187.	1.5	11
132	Chemistry and Related Properties of Freshly Emitted Sea Spray Aerosol. Chemical Reviews, 2015, 115, 4383-4399.	23.0	289
133	Chemistryâ€™s Contributions to Our Understanding of Atmospheric Science and Climate. Journal of Chemical Education, 2015, 92, 595-597.	1.1	7
134	Substrate-Deposited Sea Spray Aerosol Particles: Influence of Analytical Method, Substrate, and Storage Conditions on Particle Size, Phase, and Morphology. Environmental Science & Technology, 2015, 49, 13447-13453.	4.6	35
135	Particle Chemistry in the Environment: Challenges and Opportunities. Journal of Physical Chemistry Letters, 2015, 6, 3880-3881.	2.1	5
136	Biological and environmental media control oxide nanoparticle surface composition: the roles of biological components (proteins and amino acids), inorganic oxyanions and humic acid. Environmental Science: Nano, 2015, 2, 429-439.	2.2	68
137	Direct aerosol chemical composition measurements to evaluate the physicochemical differences between controlled sea spray aerosol generation schemes. Atmospheric Measurement Techniques, 2014, 7, 3667-3683.	1.2	95
138	Nitrate Photochemistry on Laboratory Proxies of Mineral Dust Aerosol: Wavelength Dependence and Action Spectra. Journal of Physical Chemistry C, 2014, 118, 29117-29125.	1.5	34
139	Physicochemical Characterization of Simulated Welding Fumes from a Spark Discharge System. Aerosol Science and Technology, 2014, 48, 768-776.	1.5	16
140	Iron oxide nanoparticles induce Pseudomonas aeruginosa growth, induce biofilm formation, and inhibit antimicrobial peptide function. Environmental Science: Nano, 2014, 1, 123.	2.2	96
141	ATR-FTIR spectroscopy as a tool to probe surface adsorption on nanoparticles at the liquidâ€“solid interface in environmentally and biologically relevant media. Analyst, The, 2014, 139, 870-881.	1.7	212
142	Surface Adsorption and Photochemistry of Gas-Phase Formic Acid on TiO₂ Nanoparticles: The Role of Adsorbed Water in Surface Coordination, Adsorption Kinetics, and Rate of Photoproduct Formation. Journal of Physical Chemistry C, 2014, 118, 25487-25495.	1.5	56
143	Heterogeneous Reactivity of Nitric Acid with Nascent Sea Spray Aerosol: Large Differences Observed between and within Individual Particles. Journal of Physical Chemistry Letters, 2014, 5, 2493-2500.	2.1	66
144	Environmental Science: Nano â€“ a journal is born : A new journal with a large scope that focuses on small materials. Environmental Science: Nano, 2014, 1, 8.	2.2	5

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145	Infrared Optical Constants of Organic Aerosols: Organic Acids and Model Humic-Like Substances (HULIS). Aerosol Science and Technology, 2014, 48, 630-637.	1.5	9
146	Histidine Adsorption on TiO₂ Nanoparticles: An Integrated Spectroscopic, Thermodynamic, and Molecular-Based Approach toward Understanding Nanoâ€“Bio Interactions. Langmuir, 2014, 30, 8751-8760.	1.6	64
147	Titanium Dioxide Nanoparticle Surface Reactivity with Atmospheric Gases, CO₂, SO₂, and NO₂: Roles of Surface Hydroxyl Groups and Adsorbed Water in the Formation and Stability of Adsorbed Products. Journal of Physical Chemistry C, 2014, 118, 23011-23021.	1.5	84
148	Toxicity assessment of zinc oxide nanoparticles using sub-acute and sub-chronic murine inhalation models. Particle and Fibre Toxicology, 2014, 11, 15.	2.8	194
149	Surface Photochemistry of Adsorbed Nitrate: The Role of Adsorbed Water in the Formation of Reduced Nitrogen Species on Î±-Fe₂O₃ Particle Surfaces. Journal of Physical Chemistry A, 2014, 118, 158-166.	1.1	75
150	Heterogeneous Uptake and Adsorption of Gas-Phase Formic Acid on Oxide and Clay Particle Surfaces: The Roles of Surface Hydroxyl Groups and Adsorbed Water in Formic Acid Adsorption and the Impact of Formic Acid Adsorption on Water Uptake. Journal of Physical Chemistry A, 2013, 117, 11316-11327.	1.1	43
151	Role(s) of adsorbed water in the surface chemistry of environmental interfaces. Chemical Communications, 2013, 49, 3071.	2.2	192
152	Nitrate Photochemistry in NaY Zeolite: Product Formation and Product Stability under Different Environmental Conditions. Journal of Physical Chemistry A, 2013, 117, 2205-2212.	1.1	20
153	Size-Dependent Changes in Sea Spray Aerosol Composition and Properties with Different Seawater Conditions. Environmental Science & Technology, 2013, 47, 5603-5612.	4.6	175
154	Raman microspectroscopy and vibrational sum frequency generation spectroscopy as probes of the bulk and surface compositions of size-resolved sea spray aerosol particles. Physical Chemistry Chemical Physics, 2013, 15, 6206.	1.3	103
155	Iron Dissolution of Dust Source Materials during Simulated Acidic Processing: The Effect of Sulfuric, Acetic, and Oxalic Acids. Environmental Science & Technology, 2013, 47, 10312-10321.	4.6	98
156	Size-Resolved Sea Spray Aerosol Particles Studied by Vibrational Sum Frequency Generation. Journal of Physical Chemistry A, 2013, 117, 6589-6601.	1.1	50
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