Vicki Grassian

List of Publications by Year
in descending order

264 papers	17,707 citations	10986 71 h-index	16650 123 g-index
271 all docs	271 docs citations	271 times ranked	17617 citing authors

#	Article	IF	Citations
1	Reactions on Mineral Dust. Chemical Reviews, 2003, 103, 4883-4940.	47.7	820
2	Aggregation and Dissolution of 4 nm ZnO Nanoparticles in Aqueous Environments: Influence of pH, Ionic Strength, Size, and Adsorption of Humic Acid. Langmuir, 2011, 27, 6059-6068.	3.5	810
3	Titanium Dioxide Photocatalysis in Atmospheric Chemistry. Chemical Reviews, 2012, 112, 5919-5948.	47.7	710
4	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7550-7555.	7.1	439
5	Inhalation Exposure Study of Titanium Dioxide Nanoparticles with a Primary Particle Size of 2 to 5 nm. Environmental Health Perspectives, 2007, 115, 397-402.	6.0	376
6	Spectroscopic Study of Nitric Acid and Water Adsorption on Oxide Particles:Â Enhanced Nitric Acid Uptake Kinetics in the Presence of Adsorbed Water. Journal of Physical Chemistry A, 2001, 105, 6443-6457.	2.5	332
7	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.	7.1	323
8	Dissolution of ZnO Nanoparticles at Circumneutral pH: A Study of Size Effects in the Presence and Absence of Citric Acid. Langmuir, 2012, 28, 396-403.	3.5	321
9	Interactions of Water with Mineral Dust Aerosol: Water Adsorption, Hygroscopicity, Cloud Condensation, and Ice Nucleation. Chemical Reviews, 2016, 116, 4205-4259.	47.7	296
10	Chemistry and Related Properties of Freshly Emitted Sea Spray Aerosol. Chemical Reviews, 2015, 115, 4383-4399.	47.7	289
11	Silver nanoparticles in simulated biological media: a study of aggregation, sedimentation, and dissolution. Journal of Nanoparticle Research, 2011, 13, 233-244.	1.9	253
12	Citric Acid Adsorption on TiO₂ Nanoparticles in Aqueous Suspensions at Acidic and Circumneutral pH: Surface Coverage, Surface Speciation, and Its Impact on Nanoparticleâˆ'Nanoparticle Interactions. Journal of the American Chemical Society, 2010, 132, 14986-14994.	13.7	246
13	XPS study of nitrogen dioxide adsorption on metal oxide particle surfaces under different environmental conditions. Physical Chemistry Chemical Physics, 2009, 11, 8295.	2.8	241
14	Adsorption of Organic Acids on TiO₂ Nanoparticles: Effects of pH, Nanoparticle Size, and Nanoparticle Aggregation. Langmuir, 2008, 24, 6659-6667.	3.5	230
15	Transmission FT-IR and Knudsen Cell Study of the Heterogeneous Reactivity of Gaseous Nitrogen Dioxide on Mineral Oxide Particles. Journal of Physical Chemistry A, 1999, 103, 6184-6190.	2.5	228
16	Water, sulfur dioxide and nitric acid adsorption on calcium carbonate: A transmission and ATR-FTIR study. Physical Chemistry Chemical Physics, 2005, 7, 1266.	2.8	223
17	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.	3.5	212
18	Toxicity assessment of zinc oxide nanoparticles using sub-acute and sub-chronic murine inhalation models. Particle and Fibre Toxicology, 2014, 11, 15.	6.2	194

#	Article	IF	Citations
19	Agglomeration, isolation and dissolution of commercially manufactured silver nanoparticles in aqueous environments. Journal of Nanoparticle Research, 2010, 12, 1945-1958.	1.9	192
20	Role(s) of adsorbed water in the surface chemistry of environmental interfaces. Chemical Communications, 2013, 49, 3071.	4.1	192
21	Heterogeneous reactions of NO2and HNO3on oxides and mineral dust: A combined laboratory and modeling study. Journal of Geophysical Research, 2001, 106, 18055-18066.	3.3	182
22	A laboratory study of the heterogeneous uptake and oxidation of sulfur dioxide on mineral dust particles. Journal of Geophysical Research, 2002, 107, ACH 16-1-ACH 16-9.	3.3	179
23	Size-Dependent Changes in Sea Spray Aerosol Composition and Properties with Different Seawater Conditions. Environmental Science & Technology, 2013, 47, 5603-5612.	10.0	175
24	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. ACS Central Science, 2015, 1, 124-131.	11.3	172
25	Heterogeneous Reaction of NO2:â€‰ Characterization of Gas-Phase and Adsorbed Products from the Reaction, 2NO2(g) + H2O(a) â†' HONO(g) + HNO3(a) on Hydrated Silica Particles. Journal of Physical Chemistry A, 1999, 103, 7217-7223.	2.5	164
26	Reactions of sulfur dioxide on calcium carbonate single crystal and particle surfaces at the adsorbed water carbonate interface. Physical Chemistry Chemical Physics, 2007, 9, 3011.	2.8	156
27	A laboratory study of the heterogeneous reaction of nitric acid on calcium carbonate particles. Journal of Geophysical Research, 2000, 105, 29053-29064.	3.3	152
28	Heterogeneous chemistry of individual mineral dust particles with nitric acid: A combined CCSEM/EDX, ESEM, and ICP-MS study. Journal of Geophysical Research, 2005, 110, .	3.3	151
29	Analysis of Organic Anionic Surfactants in Fine and Coarse Fractions of Freshly Emitted Sea Spray Aerosol. Environmental Science & Technology, 2016, 50, 2477-2486.	10.0	143
30	A template-free, thermal decomposition method to synthesize mesoporous MgO with a nanocrystalline framework and its application in carbon dioxide adsorption. Journal of Materials Chemistry, 2010, 20, 8705.	6.7	142
31	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. Environmental Sciences: Processes and Impacts, 2019, 21, 1280-1300.	3.5	140
32	Characterization and acidâ€mobilization study of ironâ€containing mineral dust source materials. Journal of Geophysical Research, 2008, 113, .	3.3	139
33	Physicochemical Properties of Nitrate Aerosols:â€‰ Implications for the Atmosphere. Journal of Physical Chemistry A, 2006, 110, 11785-11799.	2.5	137
34	Coal Fly Ash as a Source of Iron in Atmospheric Dust. Environmental Science & Technology, 2012, 46, 2112-2120.	10.0	129
35	Silica nanoparticle-generated ROS as a predictor of cellular toxicity: mechanistic insights and safety by design. Environmental Science: Nano, 2016, 3, 56-66.	4.3	128
36	An investigation of water uptake on clays minerals using ATRâ€FTIR spectroscopy coupled with quartz crystal microbalance measurements. Journal of Geophysical Research, 2007, 112, .	3.3	126

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37	The transformation of solid atmospheric particles into liquid droplets through heterogeneous chemistry: Laboratory insights into the processing of calcium containing mineral dust aerosol in the troposphere. Geophysical Research Letters, 2003, 30, .	4.0	125
38	Surface Chemistry and Dissolution of Î±-FeOOH Nanorods and Microrods: Environmental Implications of Size-Dependent Interactions with Oxalate. Journal of Physical Chemistry C, 2009, 113, 2175-2186.	3.1	120
39	Heterogeneous uptake and reaction of nitrogen oxides and volatile organic compounds on the surface of atmospheric particles including oxides, carbonates, soot and mineral dust: Implications for the chemical balance of the troposphere. International Reviews in Physical Chemistry, 2001, 20, 467-548.	2.3	119
40	FTIR spectroscopy combined with quantum chemical calculations to investigate adsorbed nitrate on aluminium oxide surfaces in the presence and absence of co-adsorbed water. Physical Chemistry Chemical Physics, 2007, 9, 4970.	2.8	119
41	Single-Particle SEM-EDX Analysis of Iron-Containing Coarse Particulate Matter in an Urban Environment: Sources and Distribution of Iron within Cleveland, Ohio. Environmental Science & Technology, 2012, 46, 4331-4339.	10.0	119
42	Sea spray aerosol chemical composition: elemental and molecular mimics for laboratory studies of heterogeneous and multiphase reactions. Chemical Society Reviews, 2018, 47, 2374-2400.	38.1	117
43	Simulated atmospheric processing of iron oxyhydroxide minerals at low pH: Roles of particle size and acid anion in iron dissolution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6628-6633.	7.1	116
44	Airborne Monitoring to Distinguish Engineered Nanomaterials from Incidental Particles for Environmental Health and Safety. Journal of Occupational and Environmental Hygiene, 2008, 6, 73-81.	1.0	112
45	The devil is in the details (or the surface): impact of surface structure and surface energetics on understanding the behavior of nanomaterials in the environment. Journal of Environmental Monitoring, 2011, 13, 1135.	2.1	111
46	Molecular Diversity of Sea Spray Aerosol Particles: Impact of Ocean Biology on Particle Composition and Hygroscopicity. CheM, 2017, 2, 655-667.	11.7	111
47	Size Matters in the Water Uptake and Hygroscopic Growth of Atmospherically Relevant Multicomponent Aerosol Particles. Journal of Physical Chemistry A, 2015, 119, 4489-4497.	2.5	110
48	Atmospheric chemistry of bioaerosols: heterogeneous and multiphase reactions with atmospheric oxidants and other trace gases. Chemical Science, 2016, 7, 6604-6616.	7.4	109
49	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.	9.4	109
50	Gas-Phase Photooxidation of Trichloroethylene on TiO2 and ZnO:â€‰ Influence of Trichloroethylene Pressure, Oxygen Pressure, and the Photocatalyst Surface on the Product Distribution. Journal of Physical Chemistry B, 1998, 102, 549-556.	2.6	106
51	Photooxidation of Trichloroethylene on Pt/TiO2. Journal of Physical Chemistry B, 1998, 102, 1418-1423.	2.6	105
52	Inflammatory response of mice to manufactured titanium dioxide nanoparticles: Comparison of size effects through different exposure routes. Nanotoxicology, 2007, 1, 211-226.	3.0	105
53	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.	2.8	103
54	Heterogeneous Uptake Kinetics of Volatile Organic Compounds on Oxide Surfaces Using a Knudsen Cell Reactor:Â Adsorption of Acetic Acid, Formaldehyde, and Methanol on Î±-Fe2O3, Î±-Al2O3, and SiO2. Journal of Physical Chemistry A, 2003, 107, 4250-4261.	2.5	102

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55	A Knudsen Cell Study of the Heterogeneous Reactivity of Nitric Acid on Oxide and Mineral Dust Particles. Journal of Physical Chemistry A, 2001, 105, 6609-6620.	2.5	100
56	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.	10.0	98
57	Iron oxide nanoparticles induce Pseudomonas aeruginosa growth, induce biofilm formation, and inhibit antimicrobial peptide function. Environmental Science: Nano, 2014, 1, 123.	4.3	96
58	Direct aerosol chemical composition measurements to evaluate the physicochemical differences between controlled sea spray aerosol generation schemes. Atmospheric Measurement Techniques, 2014, 7, 3667-3683.	3.1	95
59	Inflammatory response of mice following inhalation exposure to iron and copper nanoparticles. Nanotoxicology, 2008, 2, 189-204.	3.0	91
60	Sulfur Dioxide Adsorption on TiO₂ Nanoparticles: Influence of Particle Size, Coadsorbates, Sample Pretreatment, and Light on Surface Speciation and Surface Coverage. Journal of Physical Chemistry C, 2011, 115, 492-500.	3.1	91
61	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. Environmental Science & Technology, 2016, 50, 11511-11520.	10.0	90
62	Surface Reactions of Carbon Dioxide at the Adsorbed Waterâˆ’Iron Oxide Interface. Journal of Physical Chemistry B, 2005, 109, 12227-12230.	2.6	89
63	Inside versus Outside: Ion Redistribution in Nitric Acid Reacted Sea Spray Aerosol Particles as Determined by Single Particle Analysis. Journal of the American Chemical Society, 2013, 135, 14528-14531.	13.7	89
64	Impact of marine biogeochemistry on the chemical mixing state and cloud forming ability of nascent sea spray aerosol. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8553-8565.	3.3	84
65	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.	3.1	84
66	Sea Spray Aerosol: The Chemical Link between the Oceans, Atmosphere, and Climate. Accounts of Chemical Research, 2017, 50, 599-604.	15.6	84
67	Dynamics of Water Adsorption onto a Calcite Surface as a Function of Relative Humidity. Journal of Physical Chemistry C, 2008, 112, 2109-2115.	3.1	83
68	Size-dependent cytotoxicity of copper oxide nanoparticles in lung epithelial cells. Environmental Science: Nano, 2016, 3, 365-374.	4.3	78
69	Heterogeneous chemistry of NO2on mineral oxide particles: Spectroscopic evidence for oxide-coordinated and water-solvated surface nitrate. Geophysical Research Letters, 1998, 25, 3835-3838.	4.0	76
70	Carbon dioxide (C16O2 and C18O2) adsorption in zeolite Y materials: effect of cation, adsorbed water and particle size. Energy and Environmental Science, 2009, 2, 401.	30.8	76
71	Surface Adsorption of Suwannee River Humic Acid on TiO₂ Nanoparticles: A Study of pH and Particle Size. Langmuir, 2018, 34, 3136-3145.	3.5	76
72	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.	2.5	75

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73	Sea Spray Aerosol Structure and Composition Using Cryogenic Transmission Electron Microscopy. ACS Central Science, 2016, 2, 40-47.	11.3	74
74	Photochemistry of Adsorbed Nitrate on Aluminum Oxide Particle Surfaces. Journal of Physical Chemistry A, 2009, 113, 7818-7825.	2.5	73
75	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, .	7.1	73
76	Heterogeneous reactions of volatile organic compounds on oxide particles of the most abundant crustal elements: Surface reactions of acetaldehyde, acetone, and propionaldehyde on SiO2, Al2O3, Fe2O3, TiO2, and CaO. Journal of Geophysical Research, 2001, 106, 5517-5529.	3.3	71
77	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.	4.6	70
78	Indoor Surface Chemistry: Developing a Molecular Picture of Reactions on Indoor Interfaces. CheM, 2020, 6, 3203-3218.	11.7	70
79	Surface Reactions of Carbon Dioxide at the Adsorbed Waterâ˜'Oxide Interface. Journal of Physical Chemistry C, 2007, 111, 14870-14880.	3.1	69
80	A laboratory investigation of light scattering from representative components of mineral dust aerosol at a wavelength of 550 nm. Journal of Geophysical Research, 2008, 113, .	3.3	68
81	Sulfur Dioxide Adsorption on ZnO Nanoparticles and Nanorods. Journal of Physical Chemistry C, 2011, 115, 10164-10172.	3.1	68
82	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.	4.3	68
83	Heterogeneous reactions of NO2 on NaCl and Al2O3 particles. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2585-2590.	2.1	67
84	A Mesocosm Double Feature: Insights into the Chemical Makeup of Marine Ice Nucleating Particles. Journals of the Atmospheric Sciences, 2018, 75, 2405-2423.	1.7	67
85	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.	4.6	66
86	Coupled infrared extinction and size distribution measurements for several clay components of mineral dust aerosol. Journal of Geophysical Research, 2008, 113, .	3.3	65
87	Photoreductive dissolution of Feâ€containing mineral dust particles in acidic media. Journal of Geophysical Research, 2010, 115, .	3.3	65
88	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.	2.8	65
89	Histidine Adsorption on TiO₂ Nanoparticles: An Integrated Spectroscopic, Thermodynamic, and Molecular-Based Approach toward Understanding Nanoâ€“Bio Interactions. Langmuir, 2014, 30, 8751-8760.	3.5	64
90	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.	12.7	64

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91	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.	3.1	63
92	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. Journal of Physical Chemistry A, 2015, 119, 8860-8870.	2.5	62
93	Poly(isophthalic acid)(ethylene oxide) as a Macromolecular Modulator for Metalâ€“Organic Polyhedra. Journal of the American Chemical Society, 2016, 138, 9646-9654.	13.7	61
94	Aerosol chemistry and climate: Laboratory studies of the carbonate component of mineral dust and its reaction products. Geophysical Research Letters, 2006, 33, .	4.0	60
95	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.	9.4	59
96	Heterogeneous and catalytic uptake of ozone on mineral oxides and dusts: A Knudsen cell investigation. Geophysical Research Letters, 2002, 29, 10-1-10-4.	4.0	58
97	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.	3.1	57
98	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.	3.1	56
99	Humidity-dependent surface tension measurements of individual inorganic and organic submicrometre liquid particles. Chemical Science, 2015, 6, 3242-3247.	7.4	56
100	Photooxidation of 1-Alkenes in Zeolites:â€‰ A Study of the Factors that Influence Product Selectivity and Formation. Journal of the American Chemical Society, 1999, 121, 5063-5072.	13.7	55
101	Water Uptake and Hygroscopic Growth of Organosulfate Aerosol. Environmental Science & Technology, 2016, 50, 4259-4268.	10.0	54
102	NanoEHS â€“ defining fundamental science needs: no easy feat when the simple itself is complex. Environmental Science: Nano, 2016, 3, 15-27.	4.3	53
103	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO₂. Chemical Science, 2019, 10, 2906-2914.	7.4	52
104	Heterogeneous Atmospheric Chemistry of Lead Oxide Particles with Nitrogen Dioxide Increases Lead Solubility: Environmental and Health Implications. Environmental Science & Technology, 2012, 46, 12806-12813.	10.0	50
105	Size-Resolved Sea Spray Aerosol Particles Studied by Vibrational Sum Frequency Generation. Journal of Physical Chemistry A, 2013, 117, 6589-6601.	2.5	50
106	Quantifying the Hygroscopic Growth of Individual Submicrometer Particles with Atomic Force Microscopy. Analytical Chemistry, 2016, 88, 3647-3654.	6.5	50
107	Generation of Internally Mixed Insoluble and Soluble Aerosol Particles to Investigate the Impact of Atmospheric Aging and Heterogeneous Processing on the CCN Activity of Mineral Dust Aerosol. Aerosol Science and Technology, 2007, 41, 914-924.	3.1	49
108	CO Adsorption as a Probe of Acid Sites and the Electric Field in Alkaline Earth Exchanged Zeolite Beta Using FT-IR and ab Initio Quantum Calculations. Journal of Physical Chemistry B, 1999, 103, 5058-5062.	2.6	48

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109	Adsorption of bovine serum albumin on silicon dioxide nanoparticles: Impact of <i>p</i>H on nanoparticleâ€“protein interactions. Biointerphases, 2017, 12, 02D404.	1.6	48
110	Photochemical reactions of cisâ€•and transâ€•1,2â€•dichloroethene adsorbed on Pd(111) and Pt(111). Journal of Chemical Physics, 1988, 88, 4484-4491.	3.0	47
111	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.	3.5	45
112	Increasing the Efficacy of Stem Cell Therapy <i>via</i> Triple-Function Inorganic Nanoparticles. ACS Nano, 2019, 13, 6605-6617.	14.6	44
113	A Newly Designed and Constructed Instrument for Coupled Infrared Extinction and Size Distribution Measurements of Aerosols. Aerosol Science and Technology, 2007, 41, 701-710.	3.1	43
114	ATRâ€“FTIR Spectroscopy in the Undergraduate Chemistry Laboratory. Part I: Fundamentals and Examples. Journal of Chemical Education, 2008, 85, 279.	2.3	43
115	Nanorod Dissolution Quenched in the Aggregated State. Langmuir, 2010, 26, 1524-1527.	3.5	43
116	Surface Chemistry of Î±-FeOOH Nanorods and Microrods with Gas-Phase Nitric Acid and Water Vapor: Insights into the Role of Particle Size, Surface Structure, and Surface Hydroxyl Groups in the Adsorption and Reactivity of Î±-FeOOH with Atmospheric Gases. Journal of Physical Chemistry C, 2012, 116, 12566-12577.	3.1	43
117	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.	2.5	43
118	Heterogeneous Reactions of Acetic Acid with Oxide Surfaces: Effects of Mineralogy and Relative Humidity. Journal of Physical Chemistry A, 2016, 120, 5609-5616.	2.5	43
119	Formation of paratacamite nanomaterials via the conversion of aged and oxidized copper nanoparticles in hydrochloric acidic media. Journal of Materials Chemistry, 2011, 21, 3162.	6.7	42
120	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.	2.5	42
121	Direct Surface Tension Measurements of Individual Sub-Micrometer Particles Using Atomic Force Microscopy. Journal of Physical Chemistry A, 2017, 121, 8296-8305.	2.5	42
122	310 nm Irradiation of Atmospherically Relevant Concentrated Aqueous Nitrate Solutions: Nitrite Production and Quantum Yields. Journal of Physical Chemistry A, 2008, 112, 13275-13281.	2.5	40
123	Heterogeneous conversion of calcite aerosol by nitric acid. Physical Chemistry Chemical Physics, 2007, 9, 622-634.	2.8	39
124	Infrared extinction spectroscopy and microâ€•Raman spectroscopy of select components of mineral dust mixed with organic compounds. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6593-6606.	3.3	37
125	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.	3.5	37
126	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.	7.4	37

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127	Photooxidation of Toluene andp-Xylene in Cation-Exchanged Zeolites X, Y, ZSM-5, and Beta:Â The Role of Zeolite Physicochemical Properties in Product Yield and Selectivity. Journal of Physical Chemistry B, 2000, 104, 5706-5714.	2.6	36
128	Biological Impacts on Carbon Speciation and Morphology of Sea Spray Aerosol. ACS Earth and Space Chemistry, 2017, 1, 551-561.	2.7	36
129	Sea Spray Aerosol: Where Marine Biology Meets Atmospheric Chemistry. ACS Central Science, 2018, 4, 1617-1623.	11.3	36
130	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.	10.0	35
131	Nitrate Photochemistry on Laboratory Proxies of Mineral Dust Aerosol: Wavelength Dependence and Action Spectra. Journal of Physical Chemistry C, 2014, 118, 29117-29125.	3.1	34
132	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.	5.1	33
133	Proton-promoted dissolution of Î±-FeOOH nanorods and microrods: Size dependence, anion effects (carbonate and phosphate), aggregation and surface adsorption. Journal of Colloid and Interface Science, 2012, 385, 15-23.	9.4	31
134	Environmental aerosol chamber studies of extinction spectra of mineral dust aerosol components: Broadband IRâ€UV extinction spectra. Journal of Geophysical Research, 2007, 112, .	3.3	30
135	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.	2.5	30
136	An FT-IR Study of NO2 Reduction in Nanocrystalline NaY Zeolite: Effect of Zeolite Crystal Size and Adsorbed Water. Catalysis Letters, 2005, 103, 23-32.	2.6	29
137	Bioavailability, Trophic Transfer, and Toxicity of Manufactured Metal and Metal Oxide Nanoparticles in Terrestrial Environments. , 0, , 345-366.		29
138	Titration of Aerosol pH through Droplet Coalescence. Journal of Physical Chemistry Letters, 2019, 10, 4476-4483.	4.6	29
139	CuS nanoparticles in humid environments: adsorbed water enhances the transformation of CuS to CuSO₄. Nanoscale, 2020, 12, 19350-19358.	5.6	29
140	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.	2.7	29
141	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.	8.7	28
142	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.	2.8	28
143	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.	10.0	28
144	Crystal Clear? Microspectroscopic Imaging and Physicochemical Characterization of Indoor Depositions on Window Glass. Environmental Science and Technology Letters, 2018, 5, 514-519.	8.7	27

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145	What Is the Driving Force behind the Adsorption of Hydrophobic Molecules on Hydrophilic Surfaces?. Journal of Physical Chemistry Letters, 2019, 10, 468-473.	4.6	27
146	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.	3.5	25
147	Atomic Force Microscopy and X-ray Photoelectron Spectroscopy Study of NO₂ Reactions on CaCO₃ (101Ì…4) Surfaces in Humid Environments. Journal of Physical Chemistry A, 2012, 116, 9001-9009.	2.5	24
148	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.	2.7	24
149	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.	2.5	23
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