Hui-Ming Hung

List of Publications by Year
in descending order

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40 papers	2,858 citations	257101 24 h-index	301761 39 g-index
44 all docs	44 docs citations	44 times ranked	2961 citing authors

#	Article	IF	Citations
1	The influence of upslope fog on hygroscopicity and chemical composition of aerosols at a forest site in Taiwan. Atmospheric Environment, 2021, 246, 118150.	1.9	5
2	River winds and pollutant recirculation near the Manaus city in the central Amazon. Communications Earth & Environment, 2021, 2, .	2.6	8
3	The contribution of transport and chemical processes on coastal ozone and emission control strategies to reduce ozone. Heliyon, 2021, 7, e08210.	1.4	7
4	Water Adsorption vs Phase Transition of Aerosols Monitored by a Quartz Crystal Microbalance. ACS Omega, 2020, 5, 31858-31866.	1.6	3
5	Vertical Profiles of Atmospheric Species Concentrations and Nighttime Boundary Layer Structure in the Dry Season over an Urban Environment in Central Amazon Collected by an Unmanned Aerial Vehicle. Atmosphere, 2020, 11, 1371.	1.0	13
6	Investigating the effect of hygroscopicity of aerosols on optical profiles of PBL observed by dual-wavelength lidar. EPJ Web of Conferences, 2018, 176, 05059.	0.1	0
7	The Reactivity of Toluene-Derived Secondary Organic Material with Ammonia and the Influence of Water Vapor. Journal of Physical Chemistry A, 2018, 122, 7739-7747.	1.1	10
8	Quantification of SO₂ Oxidation on Interfacial Surfaces of Acidic Micro-Droplets: Implication for Ambient Sulfate Formation. Environmental Science & Technology, 2018, 52, 9079-9086.	4.6	51
9	Surface fractal dimension, water adsorption efficiency and cloud nucleation activity of insoluble aerosol. Scientific Reports, 2016, 6, 25504.	1.6	26
10	A case study of single hygroscopicity parameter and its link to the functional groups and phase transition for urban aerosols in Taipei City. Atmospheric Environment, 2016, 132, 240-248.	1.9	7
11	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and <i>m</i>-xylene. Atmospheric Chemistry and Physics, 2015, 15, 1435-1446.	1.9	121
12	Adsorption of nitrogen and water vapor by insoluble particles and the implication on cloud condensation nuclei activity. Journal of Aerosol Science, 2015, 86, 24-31.	1.8	9
13	Oxidation of Gas-Phase SO₂ on the Surfaces of Acidic Microdroplets: Implications for Sulfate and Sulfate Radical Anion Formation in the Atmospheric Liquid Phase. Environmental Science & Technology, 2015, 49, 13768-13776.	4.6	118
14	Enhancement of the hygroscopicity parameter kappa of rural aerosols in northern Taiwan by anthropogenic emissions. Atmospheric Environment, 2014, 84, 78-87.	1.9	23
15	Reactive Aging of Films of Secondary Organic Material Studied by Infrared Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 108-116.	1.1	18
16	Characterization of near-highway submicron aerosols in New York City with a high-resolution aerosol mass spectrometer. Atmospheric Chemistry and Physics, 2012, 12, 2215-2227.	1.9	55
17	Summertime formaldehyde observations in New York City: Ambient levels, sources and its contribution to HOx radicals. Journal of Geophysical Research, 2012, 117, .	3.3	44
18	A case study of aerosol processing and evolution in summer in New York City. Atmospheric Chemistry and Physics, 2011, 11, 12737-12750.	1.9	49

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19	Characterization of the sources and processes of organic and inorganic aerosols in New York city with a high-resolution time-of-flight aerosol mass apectrometer. Atmospheric Chemistry and Physics, 2011, 11, 1581-1602.	1.9	378
20	Effects of Temperature and Physical State on Heterogeneous Oxidation of Oleic Acid Droplets with Ozone. Journal of Physical Chemistry A, 2010, 114, 13104-13112.	1.1	32
21	Oxidation of Oleic Acid and Oleic Acid/Sodium Chloride(aq) Mixture Droplets with Ozone:Â Changes of Hygroscopicity and Role of Secondary Reactions. Journal of Physical Chemistry A, 2007, 111, 620-632.	1.1	56
22	Products and Mechanisms of the Reaction of Oleic Acid with Ozone and Nitrate Radical. Journal of Physical Chemistry A, 2005, 109, 4517-4530.	1.1	139
23	Crystals Formed at 293 K by Aqueous Sulfateâ˜'Nitrateâ˜'Ammoniumâ˜'Proton Aerosol Particles. Journal of Physical Chemistry A, 2004, 108, 9375-9383.	1.1	51
24	Products and Mechanisms of Ozone Reactions with Oleic Acid for Aerosol Particles Having Coreâ˜'Shell Morphologies. Journal of Physical Chemistry A, 2004, 108, 6686-6695.	1.1	156
25	Crystallization of atmospheric sulfate-nitrate-ammonium particles. Geophysical Research Letters, 2003, 30, .	1.5	69
26	Kinetics of Heterogeneous Ice Nucleation on the Surfaces of Mineral Dust Cores Inserted into Aqueous Ammonium Sulfate Particles. Journal of Physical Chemistry A, 2003, 107, 1296-1306.	1.1	105
27	The Sonolytic Destruction of Methyl tert -Butyl Ether Present in Contaminated Groundwater. Water Environment Research, 2002, 74, 545-556.	1.3	14
28	Ice Nucleation Kinetics of Aerosols Containing Aqueous and Solid Ammonium Sulfate Particles. Journal of Physical Chemistry A, 2002, 106, 293-306.	1.1	40
29	Infrared Spectroscopic Evidence for the Ice Formation Mechanisms Active in Aerosol Flow Tubes. Applied Spectroscopy, 2002, 56, 1067-1081.	1.2	18
30	Size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium nitrate particles. Journal of Geophysical Research, 2002, 107, AAC 3-1-AAC 3-9.	3.3	31
31	Apparent freezing temperatures modeled for several experimental apparatus. Journal of Geophysical Research, 2001, 106, 20379-20394.	3.3	13
32	The size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium sulfate particles. Geophysical Research Letters, 2001, 28, 2601-2604.	1.5	50
33	Kinetics and Mechanism of the Enhanced Reductive Degradation of Nitrobenzene by Elemental Iron in the Presence of Ultrasound. Environmental Science & Technology, 2000, 34, 1758-1763.	4.6	170
34	The Sonochemical Degradation of Azobenzene and Related Azo Dyes:Â Rate Enhancements via Fenton's Reactions. Journal of Physical Chemistry A, 2000, 104, 301-307.	1.1	302
35	Degradation of Alkylphenol Ethoxylate Surfactants in Water with Ultrasonic Irradiation. Environmental Science & Technology, 2000, 34, 311-317.	4.6	108
36	Kinetics and Mechanism of the Sonolytic Degradation of Chlorinated Hydrocarbons:â€‰ Frequency Effects. Journal of Physical Chemistry A, 1999, 103, 2734-2739.	1.1	161

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37	Sonochemical Degradation Rates of Volatile Solutes. Journal of Physical Chemistry A, 1999, 103, 2696-2699.	1.1	77
38	Sonolytic Destruction of Methyltert-Butyl Ether by Ultrasonic Irradiation:Â The Role of O3, H2O2, Frequency, and Power Density. Environmental Science & Technology, 1999, 33, 3199-3205.	4.6	191
39	Kinetics and Mechanism of the Enhanced Reductive Degradation of CCl4by Elemental Iron in the Presence of Ultrasound. Environmental Science & Technology, 1998, 32, 3011-3016.	4.6	122
40	Design parameters of dualâ€stage ion reflectrons. Review of Scientific Instruments, 1994, 65, 1585-1589.	0.6	8