

Hui-Ming Hung

List of Publications by Year in descending order

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Version: 2024-02-01

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	Characterization of the sources and processes of organic and inorganic aerosols in New York city with a high-resolution time-of-flight aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1581-1602.	1.9	378
2	The Sonochemical Degradation of Azobenzene and Related Azo Dyes: Rate Enhancements via Fenton's Reactions. <i>Journal of Physical Chemistry A</i> , 2000, 104, 301-307.	1.1	302
3	Sonolytic Destruction of Methyltert-Butyl Ether by Ultrasonic Irradiation: The Role of O ₃ , H ₂ O ₂ , Frequency, and Power Density. <i>Environmental Science & Technology</i> , 1999, 33, 3199-3205.	4.6	191
4	Kinetics and Mechanism of the Enhanced Reductive Degradation of Nitrobenzene by Elemental Iron in the Presence of Ultrasound. <i>Environmental Science & Technology</i> , 2000, 34, 1758-1763.	4.6	170
5	Kinetics and Mechanism of the Sonolytic Degradation of Chlorinated Hydrocarbons: Frequency Effects. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2734-2739.	1.1	161
6	Products and Mechanisms of Ozone Reactions with Oleic Acid for Aerosol Particles Having Core-Shell Morphologies. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6686-6695.	1.1	156
7	Products and Mechanisms of the Reaction of Oleic Acid with Ozone and Nitrate Radical. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4517-4530.	1.1	139
8	Kinetics and Mechanism of the Enhanced Reductive Degradation of CCl ₄ by Elemental Iron in the Presence of Ultrasound. <i>Environmental Science & Technology</i> , 1998, 32, 3011-3016.	4.6	122
9	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and m-xylene. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1435-1446.	1.9	121
10	Oxidation of Gas-Phase SO ₂ on the Surfaces of Acidic Microdroplets: Implications for Sulfate and Sulfate Radical Anion Formation in the Atmospheric Liquid Phase. <i>Environmental Science & Technology</i> , 2015, 49, 13768-13776.	4.6	118
11	Degradation of Alkylphenol Ethoxylate Surfactants in Water with Ultrasonic Irradiation. <i>Environmental Science & Technology</i> , 2000, 34, 311-317.	4.6	108
12	Kinetics of Heterogeneous Ice Nucleation on the Surfaces of Mineral Dust Cores Inserted into Aqueous Ammonium Sulfate Particles. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1296-1306.	1.1	105
13	Sonochemical Degradation Rates of Volatile Solutes. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2696-2699.	1.1	77
14	Crystallization of atmospheric sulfate-nitrate-ammonium particles. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	69
15	Oxidation of Oleic Acid and Oleic Acid/Sodium Chloride(aq) Mixture Droplets with Ozone: Changes of Hygroscopicity and Role of Secondary Reactions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 620-632.	1.1	56
16	Characterization of near-highway submicron aerosols in New York City with a high-resolution aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2215-2227.	1.9	55
17	Crystals Formed at 293 K by Aqueous Sulfate-Nitrate-Ammonium-Proton Aerosol Particles. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9375-9383.	1.1	51
18	Quantification of SO ₂ Oxidation on Interfacial Surfaces of Acidic Micro-Droplets: Implication for Ambient Sulfate Formation. <i>Environmental Science & Technology</i> , 2018, 52, 9079-9086.	4.6	51

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19	The size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium sulfate particles. <i>Geophysical Research Letters</i> , 2001, 28, 2601-2604.	1.5	50
20	A case study of aerosol processing and evolution in summer in New York City. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12737-12750.	1.9	49
21	Summertime formaldehyde observations in New York City: Ambient levels, sources and its contribution to HOx radicals. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
22	Ice Nucleation Kinetics of Aerosols Containing Aqueous and Solid Ammonium Sulfate Particles. <i>Journal of Physical Chemistry A</i> , 2002, 106, 293-306.	1.1	40
23	Effects of Temperature and Physical State on Heterogeneous Oxidation of Oleic Acid Droplets with Ozone. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13104-13112.	1.1	32
24	Size effect of hematite and corundum inclusions on the efflorescence relative humidities of aqueous ammonium nitrate particles. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1-AAC 3-9.	3.3	31
25	Surface fractal dimension, water adsorption efficiency and cloud nucleation activity of insoluble aerosol. <i>Scientific Reports</i> , 2016, 6, 25504.	1.6	26
26	Enhancement of the hygroscopicity parameter kappa of rural aerosols in northern Taiwan by anthropogenic emissions. <i>Atmospheric Environment</i> , 2014, 84, 78-87.	1.9	23
27	Infrared Spectroscopic Evidence for the Ice Formation Mechanisms Active in Aerosol Flow Tubes. <i>Applied Spectroscopy</i> , 2002, 56, 1067-1081.	1.2	18
28	Reactive Aging of Films of Secondary Organic Material Studied by Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 108-116.	1.1	18
29	The Sonolytic Destruction of Methyl tert -Butyl Ether Present in Contaminated Groundwater. <i>Water Environment Research</i> , 2002, 74, 545-556.	1.3	14
30	Apparent freezing temperatures modeled for several experimental apparatus. <i>Journal of Geophysical Research</i> , 2001, 106, 20379-20394.	3.3	13
31	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. <i>Atmosphere</i> , 2020, 11, 1371.	1.0	13
32	The Reactivity of Toluene-Derived Secondary Organic Material with Ammonia and the Influence of Water Vapor. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7739-7747.	1.1	10
33	Adsorption of nitrogen and water vapor by insoluble particles and the implication on cloud condensation nuclei activity. <i>Journal of Aerosol Science</i> , 2015, 86, 24-31.	1.8	9
34	Design parameters of dual-stage ion reflectrons. <i>Review of Scientific Instruments</i> , 1994, 65, 1585-1589.	0.6	8
35	River winds and pollutant recirculation near the Manaus city in the central Amazon. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	8
36	A case study of single hygroscopicity parameter and its link to the functional groups and phase transition for urban aerosols in Taipei City. <i>Atmospheric Environment</i> , 2016, 132, 240-248.	1.9	7

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37	The contribution of transport and chemical processes on coastal ozone and emission control strategies to reduce ozone. <i>Heliyon</i> , 2021, 7, e08210.	1.4	7
38	The influence of upslope fog on hygroscopicity and chemical composition of aerosols at a forest site in Taiwan. <i>Atmospheric Environment</i> , 2021, 246, 118150.	1.9	5
39	Water Adsorption vs Phase Transition of Aerosols Monitored by a Quartz Crystal Microbalance. <i>ACS Omega</i> , 2020, 5, 31858-31866.	1.6	3
40	Investigating the effect of hygroscopicity of aerosols on optical profiles of PBL observed by dual-wavelength lidar. <i>EPJ Web of Conferences</i> , 2018, 176, 05059.	0.1	0