

Arthur W H Chan

List of Publications by Year in descending order

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62
papers

7,467
citations

109321

35
h-index

114465

63
g-index

74
all docs

74
docs citations

74
times ranked

4628
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation pathways of aldehydes from heated cooking oils. <i>Environmental Sciences: Processes and Impacts</i> , 2023, 25, 165-175.	3.5	8
2	Assessment of Alkylated and Unsubstituted Polycyclic Aromatic Hydrocarbons in Air in Urban and Semi-Urban Areas in Toronto, Canada. <i>Environmental Science & Technology</i> , 2022, 56, 2959-2967.	10.0	21
3	Isomer-Resolved Reactivity of Organic Peroxides in Monoterpene-Derived Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2022, 56, 4882-4893.	10.0	13
4	Gas- and Particle-Phase Amide Emissions from Cooking: Mechanisms and Air Quality Impacts. <i>Environmental Science & Technology</i> , 2022, 56, 7741-7750.	10.0	11
5	HVAC filtration of particles and trace metals: Airborne measurements and the evaluation of quantitative filter forensics. <i>Environmental Pollution</i> , 2021, 271, 116388.	7.5	1
6	Multiphase Oxidation of Sulfur Dioxide in Aerosol Particles: Implications for Sulfate Formation in Polluted Environments. <i>Environmental Science & Technology</i> , 2021, 55, 4227-4242.	10.0	88
7	Dynamic Oxidative Potential of Organic Aerosol from Heated Cooking Oil. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1150-1162.	2.7	13
8	Characterization of secondary organic aerosol from heated-cooking-oil emissions: evolution in composition and volatility. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5137-5149.	4.9	16
9	Heterogeneous interactions between SO ₂ and organic peroxides in submicron aerosol. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6647-6661.	4.9	24
10	Sources and composition of metals in indoor house dust in a mid-size Canadian city. <i>Environmental Pollution</i> , 2021, 289, 117867.	7.5	19
11	Measuring and modeling the primary organic aerosol volatility from a modern non-road diesel engine. <i>Atmospheric Environment</i> , 2020, 223, 117221.	4.1	11
12	Proteome-wide effects of naphthalene-derived secondary organic aerosol in BEAS-2B cells are caused by short-lived unsaturated carbonyls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25386-25395.	7.1	30
13	Improved method for the optical analysis of particulate black carbon (BC) using smartphones. <i>Atmospheric Environment</i> , 2020, 224, 117291.	4.1	4
14	Volatility Distribution and Evaporation Rates of Organic Aerosol from Cooking Oils and their Evolution upon Heterogeneous Oxidation. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1717-1728.	2.7	19
15	Organic Peroxides and Sulfur Dioxide in Aerosol: Source of Particulate Sulfate. <i>Environmental Science & Technology</i> , 2019, 53, 10695-10704.	10.0	53
16	Soluble Wood Smoke Extract Promotes Barrier Dysfunction in Alveolar Epithelial Cells through a MAPK Signaling Pathway. <i>Scientific Reports</i> , 2019, 9, 10027.	3.3	30
17	Limited Retention of Wildfire-Derived PAHs and Trace Elements in Indoor Environments. <i>Geophysical Research Letters</i> , 2019, 46, 383-391.	4.0	14
18	Relationship between chemical composition and oxidative potential of secondary organic aerosol from polycyclic aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3987-4003.	4.9	72

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19	Predicting Secondary Organic Aerosol Enhancement in the Presence of Atmospherically Relevant Organic Particles. ACS Earth and Space Chemistry, 2018, 2, 1035-1046.	2.7	19
20	Novel pathway of SO ₂ oxidation in the atmosphere: reactions with monoterpene ozonolysis intermediates and secondary organic aerosol. Atmospheric Chemistry and Physics, 2018, 18, 5549-5565.	4.9	89
21	Development of a Novel Simulation Reactor for Chronic Exposure to Atmospheric Particulate Matter. Scientific Reports, 2017, 7, 42317.	3.3	11
22	Improved molecular level identification of organic compounds using comprehensive two-dimensional chromatography, dual ionization energies and high resolution mass spectrometry. Analyst, The, 2017, 142, 2395-2403.	3.5	33
23	Comprehensive characterization of atmospheric organic carbon at a forested site. Nature Geoscience, 2017, 10, 748-753.	12.9	66
24	Speciated measurements of semivolatile and intermediate volatility organic compounds (S/IVOCs) in a pine forest during BEACHON-RoMBAS 2011. Atmospheric Chemistry and Physics, 2016, 16, 1187-1205.	4.9	28
25	Resolving detailed molecular structures in complex organic mixtures and modeling their secondary organic aerosol formation. Atmospheric Environment, 2016, 128, 276-285.	4.1	9
26	Enhancement in Secondary Organic Aerosol Formation in the Presence of Preexisting Organic Particle. Environmental Science & Technology, 2016, 50, 3572-3579.	10.0	38
27	Comparison of advanced offline and in situ techniques of organic aerosol composition measurement during the CalNex campaign. Atmospheric Measurement Techniques, 2015, 8, 5177-5187.	3.1	7
28	Comprehensive Chemical Characterization of Hydrocarbons in NIST Standard Reference Material 2779 Gulf of Mexico Crude Oil. Environmental Science & Technology, 2015, 49, 13130-13138.	10.0	39
29	Secondary Organic Aerosol Formation Enhanced by Organic Seeds of Similar Polarity at Atmospherically Relative Humidity. STEM Fellowship Journal, 2015, 1, 6-10.	0.3	6
30	Online derivatization for hourly measurements of gas- and particle-phase semi-volatile oxygenated organic compounds by thermal desorption aerosol gas chromatography (SV-TAG). Atmospheric Measurement Techniques, 2014, 7, 4417-4429.	3.1	96
31	Lubricating Oil Dominates Primary Organic Aerosol Emissions from Motor Vehicles. Environmental Science & Technology, 2014, 48, 3698-3706.	10.0	145
32	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. Atmospheric Chemistry and Physics, 2014, 14, 6345-6367.	4.9	62
33	Observational Insights into Aerosol Formation from Isoprene. Environmental Science & Technology, 2013, 47, 11403-11413.	10.0	113
34	The Influence of Molecular Structure and Aerosol Phase on the Heterogeneous Oxidation of Normal and Branched Alkanes by OH. Journal of Physical Chemistry A, 2013, 117, 3990-4000.	2.5	52
35	Sources of organic aerosol investigated using organic compounds as tracers measured during CalNex in Bakersfield. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,388.	3.3	26
36	OH-Initiated Heterogeneous Oxidation of Cholestane: A Model System for Understanding the Photochemical Aging of Cyclic Alkane Aerosols. Journal of Physical Chemistry A, 2013, 117, 12449-12458.	2.5	23

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37	Detailed chemical characterization of unresolved complex mixtures in atmospheric organics: Insights into emission sources, atmospheric processing, and secondary organic aerosol formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6783-6796.	3.3	69
38	Secondary organic aerosol formation from biomass burning intermediates: phenol and methoxyphenols. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8019-8043.	4.9	181
39	Peroxy radical chemistry and OH radical production during the NO ₂ -initiated oxidation of isoprene. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7499-7515.	4.9	72
40	Elucidating secondary organic aerosol from diesel and gasoline vehicles through detailed characterization of organic carbon emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18318-18323.	7.1	409
41	Improved Resolution of Hydrocarbon Structures and Constitutional Isomers in Complex Mixtures Using Gas Chromatography-Vacuum Ultraviolet-Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 2335-2342.	6.5	101
42	Heterogeneous OH Oxidation of Motor Oil Particles Causes Selective Depletion of Branched and Less Cyclic Hydrocarbons. <i>Environmental Science & Technology</i> , 2012, 46, 10632-10640.	10.0	39
43	Yields of oxidized volatile organic compounds during the OH radical initiated oxidation of isoprene, methyl vinyl ketone, and methacrolein under high-NO _x conditions. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10779-10790.	4.9	112
44	Influence of aerosol acidity on the chemical composition of secondary organic aerosol from β -caryophyllene. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1735-1751.	4.9	139
45	Mass spectrometric characterization of isomeric terpenoic acids from the oxidation of α -pinene, β -pinene, δ -limonene, and β -carene in fine forest aerosol. <i>Journal of Mass Spectrometry</i> , 2011, 46, 425-442.	1.6	89
46	Role of aldehyde chemistry and NO _x concentrations in secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7169-7188.	4.9	190
47	Global modeling of organic aerosol: the importance of reactive nitrogen (NO _x and NO ₃). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11261-11276.	4.9	242
48	Reactive intermediates revealed in secondary organic aerosol formation from isoprene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6640-6645.	7.1	854
49	Characterization of Vapor Wall Loss in Laboratory Chambers. <i>Environmental Science & Technology</i> , 2010, 44, 5074-5078.	10.0	98
50	Chemical Composition of Gas- and Aerosol-Phase Products from the Photooxidation of Naphthalene. <i>Journal of Physical Chemistry A</i> , 2010, 114, 913-934.	2.5	233
51	Terpenylic Acid and Related Compounds from the Oxidation of α -Pinene: Implications for New Particle Formation and Growth above Forests. <i>Environmental Science & Technology</i> , 2009, 43, 6976-6982.	10.0	175
52	Photooxidation of 2-Methyl-3-Buten-2-ol (MBO) as a Potential Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2009, 43, 4647-4652.	10.0	50
53	Secondary organic aerosol formation from photooxidation of naphthalene and alkylnaphthalenes: implications for oxidation of intermediate volatility organic compounds (IVOCs). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3049-3060.	4.9	300
54	Glyoxal uptake on ammonium sulphate seed aerosol: reaction products and reversibility of uptake under dark and irradiated conditions. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3331-3345.	4.9	380

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55	Modeling of secondary organic aerosol yields from laboratory chamber data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5669-5680.	4.9	26
56	Organosulfate Formation in Biogenic Secondary Organic Aerosol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8345-8378.	2.5	594
57	Secondary organic aerosol (SOA) formation from reaction of isoprene with nitrate radicals (NO ₃). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4117-4140.	4.9	317
58	Effect of NO _x level on secondary organic aerosol (SOA) formation from the photooxidation of terpenes. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5159-5174.	4.9	423
59	Secondary organic aerosol formation from <i>m</i> -xylene, toluene, and benzene. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3909-3922.	4.9	720
60	Kinetic modeling of secondary organic aerosol formation: effects of particle- and gas-phase reactions of semivolatile products. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4135-4147.	4.9	74
61	Reactions of Semivolatile Organics and Their Effects on Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2007, 41, 3545-3550.	10.0	129
62	Particulate organic acids and overall water-soluble aerosol composition measurements from the 2006 Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	121