

Charles C-K Chou

List of Publications by Year in descending order

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114
papers

3,531
citations

117625
34
h-index

168389
53
g-index

120
all docs

120
docs citations

120
times ranked

3846
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic signatures and source apportionment of Pb in ambient PM2.5. Scientific Reports, 2022, 12, 4343.	3.3	4
2	Distinct brain lipid signatures in response to low-level PM2.5 exposure in a 3xTg-Alzheimer's disease mouse inhalation model. Science of the Total Environment, 2022, 838, 156456.	8.0	2
3	A Machine-learning-Aided Visual Analysis Workflow for Investigating Air Pollution Data. , 2022, , .		1
4	White matter pathology in alzheimerâ€™s transgenic mice with chronic exposure to low-level ambient fine particulate matter. Particle and Fibre Toxicology, 2022, 19, .	6.2	5
5	A numerical study of reducing the concentration of O3 and PM2.5 simultaneously in Taiwan. Journal of Environmental Management, 2022, 318, 115614.	7.8	8
6	Enhanced Receptor Modeling Using Expanded Equations with Parametric Variables for Secondary Components of PM2.5. Aerosol and Air Quality Research, 2021, 21, 200549.	2.1	1
7	The influence of upslope fog on hygroscopicity and chemical composition of aerosols at a forest site in Taiwan. Atmospheric Environment, 2021, 246, 118150.	4.1	5
8	Three month inhalation exposure to low-level PM2.5 induced brain toxicity in an Alzheimerâ€™s disease mouse model. PLoS ONE, 2021, 16, e0254587.	2.5	23
9	Real-time measurements of PM2.5 water-soluble inorganic ions at a high-altitude mountain site in the western North Pacific: Impact of upslope wind and long-range transported biomass-burning smoke. Atmospheric Research, 2021, 260, 105686.	4.1	8
10	Analyzing the increasing importance of nitrate in Taiwan from long-term trend of measurements. Atmospheric Environment, 2021, 267, 118749.	4.1	7
11	Vertical distribution of source apportioned PM2.5 using particulate-bound elements and polycyclic aromatic hydrocarbons in an urban area. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 659-669.	3.9	4
12	Impact of Mineral Dust on Summertime Precipitation Over the Taiwan Region. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033120.	3.3	6
13	Contribution of Terpenes to Ozone Formation and Secondary Organic Aerosols in a Subtropical Forest Impacted by Urban Pollution. Atmosphere, 2020, 11, 1232.	2.3	6
14	Water Adsorption vs Phase Transition of Aerosols Monitored by a Quartz Crystal Microbalance. ACS Omega, 2020, 5, 31858-31866.	3.5	3
15	Concepts and New Implements for Modified Physiologically Equivalent Temperature. Atmosphere, 2020, 11, 694.	2.3	17
16	Measurements of submicron organonitrate particles: Implications for the impacts of NOx pollution in a subtropical forest. Atmospheric Research, 2020, 245, 105080.	4.1	11
17	Investigation of East Asian Emissions of CFC-11 Using Atmospheric Observations in Taiwan. Environmental Science & Technology, 2020, 54, 3814-3822.	10.0	12
18	Hygroscopic properties and cloud condensation nuclei activity of atmospheric aerosols under the influences of Asian continental outflow and new particle formation at a coastal site in eastern Asia. Atmospheric Chemistry and Physics, 2020, 20, 5911-5922.	4.9	19

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19	Mixing State of Black Carbon Particles in Asian Outflow Observed at a Remote Site in Taiwan in the Spring of 2017. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032526.	3.3	1
20	Long-term (2003–2018) trends in aerosol chemical components at a high-altitude background station in the western North Pacific: Impact of long-range transport from continental Asia. <i>Environmental Pollution</i> , 2020, 265, 114813.	7.5	7
21	Trends and emissions of six perfluorocarbons in the Northern Hemisphere and Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4787-4807.	4.9	5
22	Validation of XCO ₂ and XCH ₄ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5149-5163.	3.1	3
23	Satellite-Derived Correlation of SO ₂ , NO ₂ , and Aerosol Optical Depth with Meteorological Conditions over East Asia from 2005 to 2015. <i>Remote Sensing</i> , 2019, 11, 1738.	4.0	40
24	Investigation of long-range transported PM _{2.5} events over Northern Taiwan during 2005–2015 winter seasons. <i>Atmospheric Environment</i> , 2019, 217, 116920.	4.1	10
25	Impacts of holiday characteristics and number of vacation days on “holiday effect” in Taipei: Implications on ozone control strategies. <i>Atmospheric Environment</i> , 2019, 202, 357-369.	4.1	18
26	The hourly characteristics of aerosol chemical compositions under fog and high particle pollution events in Kinmen. <i>Atmospheric Research</i> , 2019, 223, 132-141.	4.1	4
27	C-Sr-Pb isotopic characteristics of PM _{2.5} transported on the East-Asian continental outflows. <i>Atmospheric Research</i> , 2019, 223, 88-97.	4.1	11
28	Seasonal variation of chemical characteristics of fine particulate matter at a high-elevation subtropical forest in East Asia. <i>Environmental Pollution</i> , 2019, 246, 668-677.	7.5	18
29	Continued increase of CFC-113a (CCl ₃ CF ₃) mixing ratios in the global atmosphere: emissions, occurrence and potential sources. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4737-4751.	4.9	18
30	Contribution of Indoor- and Outdoor-Generated Fine and Coarse Particles to Indoor Air in Taiwanese Hospitals. <i>Aerosol and Air Quality Research</i> , 2018, 18, 3234-3242.	2.1	1
31	Seasonality of the mass concentration and chemical composition of aerosols around an urbanized basin in East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2026-2042.	3.3	19
32	Source apportionment of PM 2.5 size distribution and composition data from multiple stationary sites using a mobile platform. <i>Atmospheric Research</i> , 2017, 190, 21-28.	4.1	9
33	Source apportionment of urban air pollutants using constrained receptor models with a priori profile information. <i>Environmental Pollution</i> , 2017, 227, 323-333.	7.5	27
34	Strong deviations from the NO-NO ₂ -O ₃ photostationary state in the Pearl River Delta: Indications of active peroxy radical and chlorine radical chemistry. <i>Atmospheric Environment</i> , 2017, 163, 22-34.	4.1	17
35	Alterations in cardiovascular function by particulate matter in rats using a crossover design. <i>Environmental Pollution</i> , 2017, 231, 812-820.	7.5	9
36	The effect of size-segregated ambient particulate matter on Th1/Th2-like immune responses in mice. <i>PLoS ONE</i> , 2017, 12, e0173158.	2.5	45

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37	Chemical Characterization of Wintertime Aerosols over Islands and Mountains in East Asia: Impacts of the Continental Asian Outflow. <i>Aerosol and Air Quality Research</i> , 2017, 17, 3006-3036.	2.1	29
38	A Simulation Study on PM _{2.5} Sources and Meteorological Characteristics at the Northern Tip of Taiwan in the Early Stage of the Asian Haze Period. <i>Aerosol and Air Quality Research</i> , 2017, 17, 3166-3178.	2.1	32
39	Spatial Correlation of Satellite-Derived PM _{2.5} with Hospital Admissions for Respiratory Diseases. <i>Remote Sensing</i> , 2016, 8, 914.	4.0	16
40	Aerosol transport from Chiang Mai, Thailand to Mt. Lulin, Taiwan – Implication of aerosol aging during long-range transport. <i>Atmospheric Environment</i> , 2016, 137, 101-112.	4.1	22
41	Characterization of the organic matter in submicron urban aerosols using a Thermo-Desorption Proton-Transfer-Reaction Time-of-Flight Mass Spectrometer (TD-PTR-TOF-MS). <i>Atmospheric Environment</i> , 2016, 140, 565-575.	4.1	15
42	Association of short-term exposure to fine particulate matter and nitrogen dioxide with acute cardiovascular effects. <i>Science of the Total Environment</i> , 2016, 569-570, 300-305.	8.0	57
43	Seasonal variations of ultra-fine and submicron aerosols in Taipei, Taiwan: implications for particle formation processes in a subtropical urban area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1317-1330.	4.9	10
44	Wintertime haze deterioration in Beijing by industrial pollution deduced from trace metal fingerprints and enhanced health risk by heavy metals. <i>Environmental Pollution</i> , 2016, 208, 284-293.	7.5	95
45	Aerosol Chemical Profile of Near-Source Biomass Burning Smoke in Sonla, Vietnam during 7-SEAS Campaigns in 2012 and 2013. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2603-2617.	2.1	26
46	Numerical investigation of the coagulation mixing between dust and hygroscopic aerosol particles and its impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4213-4233.	3.3	8
47	Impact of particle formation on atmospheric ions and particle number concentrations in an urban environment. <i>Atmospheric Research</i> , 2015, 157, 127-136.	4.1	10
48	Source and risk apportionment of selected VOCs and PM _{2.5} species using partially constrained receptor models with multiple time resolution data. <i>Environmental Pollution</i> , 2015, 205, 121-130.	7.5	68
49	The Health Effects of a Forest Environment on Subclinical Cardiovascular Disease and Health-Related Quality of Life. <i>PLoS ONE</i> , 2014, 9, e103231.	2.5	25
50	Subchronic effects of inhaled ambient particulate matter on glucose homeostasis and target organ damage in a type 1 diabetic rat model. <i>Toxicology and Applied Pharmacology</i> , 2014, 281, 211-220.	2.8	69
51	Source apportionment of particulate matter and selected volatile organic compounds with multiple time resolution data. <i>Science of the Total Environment</i> , 2014, 472, 880-887.	8.0	51
52	Analysis of semi-volatile materials (SVM) in fine particulate matter. <i>Atmospheric Environment</i> , 2014, 95, 288-295.	4.1	20
53	Recent improvement in air quality as evidenced by the island-wide monitoring network in Taiwan. <i>Atmospheric Environment</i> , 2014, 96, 70-77.	4.1	19
54	Carbonaceous aerosols in the air masses transported from Indochina to Taiwan: Long-term observation at Mt. Lulin. <i>Atmospheric Environment</i> , 2014, 89, 507-516.	4.1	48

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55	Enhancement of the hygroscopicity parameter kappa of rural aerosols in northern Taiwan by anthropogenic emissions. Atmospheric Environment, 2014, 84, 78-87.	4.1	23
56	Increase of Ambient PCDD/F Concentrations in Northern Taiwan during Asian Dust Storm and Winter Monsoon Episodes. Aerosol and Air Quality Research, 2014, 14, 1279-1291.	2.1	7
57	Characterization of aerosol chemical properties from near-source biomass burning in the northern Indochina during 7-SEAS/Dongsha experiment. Atmospheric Environment, 2013, 78, 72-81.	4.1	73
58	Impact of urbanization on the air pollution "holiday effect" in Taiwan. Atmospheric Environment, 2013, 70, 361-375.	4.1	35
59	Dynamic variations of ultrafine, fine and coarse particles at the Lu-Lin background site in East Asia. Atmospheric Environment, 2013, 78, 154-162.	4.1	16
60	Analysis of the major factors affecting the visibility degradation in two stations. Journal of the Air and Waste Management Association, 2013, 63, 433-441.	1.9	26
61	Characterization of ultrafine particle number concentration and new particle formation in an urban environment of Taipei, Taiwan. Atmospheric Chemistry and Physics, 2013, 13, 8935-8946.	4.9	47
62	The Characteristics of PM _{2.5} and Its Chemical Compositions between Different Prevailing Wind Patterns in Guangzhou. Aerosol and Air Quality Research, 2013, 13, 1373-1383.	2.1	31
63	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. Atmospheric Environment, 2012, 60, 403-418.	4.1	33
64	Dust transport from non-East Asian sources to the North Pacific. Geophysical Research Letters, 2012, 39, .	4.0	27
65	Enhanced insulin resistance in diet-induced obese rats exposed to fine particles by instillation. Inhalation Toxicology, 2011, 23, 507-519.	1.6	47
66	Photochemical production of ozone in Beijing during the 2008 Olympic Games. Atmospheric Chemistry and Physics, 2011, 11, 9825-9837.	4.9	56
67	Characteristics of major secondary ions in typical polluted atmospheric aerosols during autumn in central Taiwan. Journal of Environmental Management, 2011, 92, 1520-1527.	7.8	8
68	Chemical Mass Closure and Chemical Characteristics of Ambient Ultrafine Particles and other PM Fractions. Aerosol Science and Technology, 2010, 44, 713-723.	3.1	49
69	Seasonal variation and spatial distribution of carbonaceous aerosols in Taiwan. Atmospheric Chemistry and Physics, 2010, 10, 9563-9578.	4.9	62
70	Regional ozone pollution and key controlling factors of photochemical ozone production in Pearl River Delta during summer time. Science China Chemistry, 2010, 53, 651-663.	8.2	42
71	Effect of wastewater composition on the calcium carbonate precipitation in upflow anaerobic sludge blanket reactors. Frontiers of Environmental Science and Engineering in China, 2010, 4, 142-149.	0.8	12
72	Ultrafine particles at three different sampling locations in Taiwan. Atmospheric Environment, 2010, 44, 533-540.	4.1	62

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73	Temporal characteristics from continuous measurements of PM _{2.5} and speciation at the Taipei Aerosol Supersite from 2002 to 2008. <i>Atmospheric Environment</i> , 2010, 44, 1088-1096.	4.1	35
74	Characterization of carbon fractions for atmospheric fine particles and nanoparticles in a highway tunnel. <i>Atmospheric Environment</i> , 2010, 44, 2668-2673.	4.1	116
75	Chemical speciation, transport and contribution of biomass burning smoke to ambient aerosol in Guangzhou, a mega city of China. <i>Atmospheric Environment</i> , 2010, 44, 3187-3195.	4.1	119
76	Oxidant (O ₃ + NO ₂) production processes and formation regimes in Beijing. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	72
77	High wintertime particulate matter pollution over an offshore island (Kinmen) off southeastern China: An overview. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
78	Correction to “Oxidant (O ₃ +NO ₂) production processes and formation regimes in Beijing”. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
79	Asian dust and pollution transport—A comprehensive observation in the downwind Taiwan in 2006. <i>Atmospheric Research</i> , 2010, 95, 19-31.	4.1	26
80	Size-Resolved Anhydrosugar Composition in Smoke Aerosol from Controlled Field Burning of Rice Straw. <i>Aerosol Science and Technology</i> , 2009, 43, 662-672.	3.1	179
81	Air pollution “holiday effect” resulting from the Chinese New Year. <i>Atmospheric Environment</i> , 2009, 43, 2114-2124.	4.1	89
82	Columnar optical properties of tropospheric aerosol by combined lidar and sunphotometer measurements at Taipei, Taiwan. <i>Atmospheric Environment</i> , 2009, 43, 2700-2708.	4.1	32
83	Effect of typhoon on atmospheric particulates in autumn in central Taiwan. <i>Atmospheric Environment</i> , 2009, 43, 6039-6048.	4.1	28
84	Particulate matter characteristics during agricultural waste burning in Taichung City, Taiwan. <i>Journal of Hazardous Materials</i> , 2009, 165, 187-192.	12.4	50
85	Long-range southeastward transport of Asian biosmoke pollution: Signature detected by aerosol potassium in Northern Taiwan. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
86	Measurement of NO _y during Campaign of Air Quality Research in Beijing 2006 (CAREBeijing2006): Implications for the ozone production efficiency of NO _x . <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
87	Total scatter-to-backscatter ratio of aerosol derived from aerosol size distribution measurement. <i>International Journal of Environment and Pollution</i> , 2009, 37, 45.	0.2	4
88	Applying hourly measurements of meteorological data and aerosol soluble ions in Taipei Basin, Taiwan. <i>International Journal of Environment and Pollution</i> , 2009, 37, 55.	0.2	0
89	Compositions and source apportionments of atmospheric aerosol during Asian dust storm and local pollution in central Taiwan. <i>Journal of Atmospheric Chemistry</i> , 2008, 61, 155-173.	3.2	25
90	Implications of the chemical transformation of Asian outflow aerosols for the long-range transport of inorganic nitrogen species. <i>Atmospheric Environment</i> , 2008, 42, 7508-7519.	4.1	48

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91	Long-range transport of Asian dust and air pollutants to Taiwan: observed evidence and model simulation. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 423-434.	4.9	96
92	Study of relationship between water-soluble Ca ²⁺ and lidar depolarization ratio for spring aerosol in the boundary layer. <i>Atmospheric Environment</i> , 2007, 41, 1440-1455.	4.1	20
93	The continuous field measurements of soluble aerosol compositions at the Taipei Aerosol Supersite, Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 1936-1949.	4.1	33
94	A numerical study of an autumn high ozone episode over southwestern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 3684-3701.	4.1	45
95	Optical properties of Asian dusts in the free atmosphere measured by Raman lidar at Taipei, Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 7698-7714.	4.1	34
96	Photochemical production of ozone and control strategy for Southern Taiwan. <i>Atmospheric Environment</i> , 2007, 41, 9324-9340.	4.1	62
97	Lidar observations of the diurnal variations in the depth of urban mixing layer: A case study on the air quality deterioration in Taipei, Taiwan. <i>Science of the Total Environment</i> , 2007, 374, 156-166.	8.0	35
98	Source identifications of PM ₁₀ aerosols depending on hourly measurements of soluble components characterization among different events in Taipei Basin during spring season of 2004. <i>Chemosphere</i> , 2006, 65, 792-801.	8.2	19
99	Correlation between aerosol optical depth derived from CIMEL sunphotometer and surface particulate concentration in Northern and Southern Taiwan. , 2006, , .		1
100	The trend of surface ozone in Taipei, Taiwan, and its causes: Implications for ozone control strategies. <i>Atmospheric Environment</i> , 2006, 40, 3898-3908.	4.1	113
101	Lead isotope ratios in ambient aerosols from Taipei, Taiwan: Identifying long-range transport of airborne Pb from the Yangtze Delta. <i>Atmospheric Environment</i> , 2006, 40, 5393-5404.	4.1	62
102	Chemical compositions and radiative properties of dust and anthropogenic air masses study in Taipei Basin, Taiwan, during spring of 2004. <i>Atmospheric Environment</i> , 2006, 40, 7796-7809.	4.1	16
103	Application of lidar in the observation of atmospheric particulate pollutants in Taipei. , 2006, , .		1
104	Long-range transport of aerosols and their impact on the air quality of Taiwan. <i>Atmospheric Environment</i> , 2005, 39, 6066-6076.	4.1	108
105	Size-segregated characterization of atmospheric aerosols in Taipei during Asian outflow episodes. <i>Atmospheric Research</i> , 2005, 75, 89-109.	4.1	26
106	Specific absorption cross-section and elemental carbon content of urban aerosols. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	12
107	Assessment of Traffic Contribution to Hydrocarbons Using 2,2-Dimethylbutane as a Vehicular Indicator. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 697.	0.6	13
108	Long-Range Transport of Asian Dust and Air Pollutants to Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 759.	0.6	80

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109	Influence of Long-Range Transport Dust Particles on Local Air Quality: A Case Study on Asian Dust Episodes in Taipei during the Spring of 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 881.	0.6	29
110	Water-soluble Ions of Aerosols in Taipei in Spring 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 901.	0.6	10
111	Radiative Absorption Capability of Asian Dust with Black Carbon Contamination. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	18
112	A modified high-output, size-selective aerosol generator. <i>Particle and Particle Systems Characterization</i> , 1997, 14, 290-294.	2.3	1
113	Effects of Monomer Size Distribution on the fractal dimensionality of diffusion-limited aggregates. <i>Particle and Particle Systems Characterization</i> , 1996, 13, 245-248.	2.3	1
114	Application of Fractal Geometry in Quantitative Characterization of Aerosol Morphology. <i>Particle and Particle Systems Characterization</i> , 1994, 11, 436-441.	2.3	4