

John C Wenger

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

6,502
citations

36
h-index

80
g-index

130
ext. papers

7,352
ext. citations

6.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
110	Real-time Monitoring of Aerosol Generating Dental Procedures.. <i>Journal of Dentistry</i> , 2022 , 120, 104092	4.8	2
109	A new on-line SPE LC-HRMS method for the analysis of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) in PM and its application for screening atmospheric particulates from Dublin and Enniscorthy, Ireland.. <i>Science of the Total Environment</i> , 2022 , 155496	10.2	1
108	Assessment of Environmental and Occupational Risk Factors for the Mitigation and Containment of a COVID-19 Outbreak in a Meat Processing Plant. <i>Frontiers in Public Health</i> , 2021 , 9, 769238	6	2
107	On the use of reference mass spectra for reducing uncertainty in source apportionment of solid-fuel burning in ambient organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6905-6916	4	0
106	Characterization and source apportionment of single particles from metalworking activities. <i>Environmental Pollution</i> , 2021 , 270, 116078	9.3	2
105	Photochemistry of 2-butenedial and 4-oxo-2-pentenal under atmospheric boundary layer conditions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1160-1171	3.6	7
104	Investigation of coastal sea-fog formation using the WIBS (wideband integrated bioaerosol sensor) technique. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5737-5751	6.8	6
103	Investigation on the near-field evolution of industrial plumes from metalworking activities. <i>Science of the Total Environment</i> , 2019 , 668, 443-456	10.2	14
102	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14091-14106	6.8	8
101	Extreme air pollution from residential solid fuel burning. <i>Nature Sustainability</i> , 2018 , 1, 512-517	22.1	31
100	Source characterization of urban particles from meat smoking activities in Chongqing, China using single particle aerosol mass spectrometry. <i>Environmental Pollution</i> , 2017 , 228, 92-101	9.3	26
99	Gas- and particle-phase products from the photooxidation of acenaphthene and acenaphthylene by OH radicals. <i>Atmospheric Environment</i> , 2017 , 151, 34-44	5.3	13
98	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. <i>Atmospheric Environment</i> , 2017 , 171, 118-125	5.3	2
97	Characterization of Primary Organic Aerosol from Domestic Wood, Peat, and Coal Burning in Ireland. <i>Environmental Science & Technology</i> , 2017 , 51, 10624-10632	10.3	20
96	Sources and mixing state of summertime background aerosol in the north-western Mediterranean basin. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6975-7001	6.8	32
95	Optical, physical and chemical properties of aerosols transported to a coastal site in the western Mediterranean: a focus on primary marine aerosols. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7891-7915	6.8	18
94	Optical, physical and chemical properties of aerosols transported to a coastal site in the Western Mediterranean: Focus on primary marine aerosols 2016 ,		1

93	On the simultaneous deployment of two single-particle mass spectrometers at an urban background and a roadside site during SAPUSS. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9693-9710	6.8	19
92	Single-particle characterization of biomass burning organic aerosol (BBOA): evidence for non-uniform mixing of high molecular weight organics and potassium. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5561-5572	6.8	33
91	Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRI-MED) summer 2013 campaign. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 455-504	6.8	85
90	Quantification of black carbon mixing state from traffic: implications for aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4693-4706	6.8	30
89	Simulation of particle diversity and mixing state over Greater Paris: a model-measurement inter-comparison. <i>Faraday Discussions</i> , 2016 , 189, 547-66	3.6	19
88	Upper limits for absorption by water vapor in the near-UV. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 170, 194-199	2.1	17
87	Scanning electron microscopy-energy dispersive X-ray spectrometry (SEM-EDX) and aerosol time-of-flight mass spectrometry (ATOFMS) single particle analysis of metallurgy plant emissions. <i>Environmental Pollution</i> , 2016 , 210, 9-17	9.3	18
86	Numerical modelling strategies for the urban atmosphere: general discussion. <i>Faraday Discussions</i> , 2016 , 189, 635-60	3.6	
85	Enhanced Volatile Organic Compounds emissions and organic aerosol mass increase the oligomer content of atmospheric aerosols. <i>Scientific Reports</i> , 2016 , 6, 35038	4.9	64
84	Molecular composition of organic aerosols at urban background and road tunnel sites using ultra-high resolution mass spectrometry. <i>Faraday Discussions</i> , 2016 , 189, 51-68	3.6	31
83	Gas and particulate phase products from the ozonolysis of acenaphthylene. <i>Atmospheric Environment</i> , 2016 , 142, 104-113	5.3	8
82	Single-particle speciation of alkylamines in ambient aerosol at five European sites. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5899-909	4.4	40
81	Fine and Ultrafine Particles in the Vicinity of Industrial Activities: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 2305-2356	11.1	40
80	Temperature dependent rate coefficients for the reaction of OH radicals with dimethylbenzoquinones. <i>Chemical Physics Letters</i> , 2015 , 639, 145-150	2.5	1
79	Gas- and Particle-Phase Products from the Chlorine-Initiated Oxidation of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11170-81	2.8	23
78	Light-absorbing properties of ambient black carbon and brown carbon from fossil fuel and biomass burning sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6619-6633	4.4	76
77	Molecular composition of fresh and aged secondary organic aerosol from a mixture of biogenic volatile compounds: a high-resolution mass spectrometry study. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5683-5695	6.8	53
76	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. <i>Science of the Total Environment</i> , 2014 , 493, 197-208	10.2	15

75	Kinetics of the gas-phase reactions of chlorine atoms with naphthalene, acenaphthene, and acenaphthylene. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 3535-40	2.8	12
74	Effects of anthropogenic emissions on the molecular composition of urban organic aerosols: An ultrahigh resolution mass spectrometry study. <i>Atmospheric Environment</i> , 2014 , 89, 525-532	5.3	52
73	Predicting hygroscopic growth using single particle chemical composition estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9567-9577	4.4	15
72	Molecular composition of biogenic secondary organic aerosols using ultrahigh-resolution mass spectrometry: comparing laboratory and field studies. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2155-2167	6.8	56
71	Single particle diversity and mixing state measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6289-6299	6.8	42
70	Kinetics and products of the gas-phase reactions of acenaphthene with hydroxyl radicals, nitrate radicals and ozone. <i>Atmospheric Environment</i> , 2013 , 72, 97-104	5.3	23
69	Kinetics and products of the gas-phase reactions of acenaphthylene with hydroxyl radicals, nitrate radicals and ozone. <i>Atmospheric Environment</i> , 2013 , 75, 103-112	5.3	25
68	A novel, broadband spectroscopic method to measure the extinction coefficient of aerosols in the near-ultraviolet 2013 ,		6
67	Quantitative determination of carbonaceous particle mixing state in Paris using single-particle mass spectrometer and aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9479-9496	6.8	87
66	On the spatial distribution and evolution of ultrafine particles in Barcelona. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 741-759	6.8	64
65	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8991-9019	6.8	22
64	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4997-5015	6.8	55
63	Gas phase reaction of OH radicals with (E)- β -farnesene at 296 \pm 2 K: Rate coefficient and carbonyl products. <i>Atmospheric Environment</i> , 2012 , 46, 338-345	5.3	11
62	Using a pattern recognition approach to link inorganic chemical fingerprints of ambient PM _{2.5/10} with in vitro biological effects. <i>Air Quality, Atmosphere and Health</i> , 2012 , 5, 125-147	5.6	6
61	Total OH reactivity measurements in laboratory studies of the photooxidation of isoprene. <i>Atmospheric Environment</i> , 2012 , 62, 243-247	5.3	10
60	Rapid formation of secondary organic aerosol from the photolysis of 1-nitronaphthalene: role of naphthoxy radical self-reaction. <i>Environmental Science & Technology</i> , 2012 , 46, 11813-20	10.3	23
59	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		42
58	Sources and mixing state of size-resolved elemental carbon particles in a European megacity: Paris. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1681-1700	6.8	115

57	The use of polar organic compounds to estimate the contribution of domestic solid fuel combustion and biogenic sources to ambient levels of organic carbon and PM _{2.5} in Cork Harbour, Ireland. <i>Science of the Total Environment</i> , 2011 , 409, 2143-55	10.2	54
56	Characterisation of airborne particles and associated organic components produced from incense burning. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 3095-102	4.4	30
55	Structure-activity relationship (SAR) for the prediction of gas-phase ozonolysis rate coefficients: an extension towards heteroatomic unsaturated species. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2842-9	3.6	25
54	The atmospheric photolysis of o-tolualdehyde. <i>Environmental Science & Technology</i> , 2011 , 45, 9649-50.3	5.3	15
53	Near-ultraviolet absorption cross sections of nitrophenols and their potential influence on tropospheric oxidation capacity. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12235-42	2.8	60
52	The Gas-phase Ozonolysis of 1-Penten-3-ol, (Z)-2-Penten-1-ol and 1-Penten-3-one: Kinetics, Products and Secondary Organic Aerosol Formation. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010 , 224, 1059-1080 ¹¹	3.1	11
51	Rate coefficients for the gas-phase reaction of hydroxyl radicals with 2-methoxyphenol (guaiacol) and related compounds. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 11645-50	2.8	61
50	Porous silica spheres as indoor air pollutant scavengers. <i>Journal of Environmental Monitoring</i> , 2010 , 12, 2244-51		10
49	Source apportionment of PM _{2.5} in Cork Harbour, Ireland using a combination of single particle mass spectrometry and quantitative semi-continuous measurements. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9593-9613	6.8	81
48	Aerosol properties associated with air masses arriving into the North East Atlantic during the 2008 Mace Head EUCAARI intensive observing period: an overview. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8413-8435	6.8	56
47	The use of real-time monitoring data to evaluate major sources of airborne particulate matter. <i>Atmospheric Environment</i> , 2010 , 44, 1116-1125	5.3	27
46	Product study of the OH radical and Cl atom initiated oxidation of 1,3-dioxane. <i>ChemPhysChem</i> , 2010 , 11, 3980-6	3.2	2
45	Airborne emissions in the harbour and port of Cork. <i>Biomarkers</i> , 2009 , 14 Suppl 1, 12-6	2.6	6
44	Aerosol formation yields from the reaction of catechol with ozone. <i>Atmospheric Environment</i> , 2009 , 43, 2360-2365	5.3	31
43	Gas-phase reaction of (E)- β -Farnesene with ozone: Rate coefficient and carbonyl products. <i>Atmospheric Environment</i> , 2009 , 43, 3182-3190	5.3	26
42	Characterisation of single particles from in-port ship emissions. <i>Atmospheric Environment</i> , 2009 , 43, 6408-6414	5.4	126
41	Effect of relative humidity on gas/particle partitioning and aerosol mass yield in the photooxidation of p-xylene. <i>Environmental Science & Technology</i> , 2009 , 43, 1884-9	10.3	46
40	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 5155-5236	6.8	2861

39	Reactive oxidation products promote secondary organic aerosol formation from green leaf volatiles. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3815-3823	6.8	47
38	Structure-activity relationship (SAR) for the gas-phase ozonolysis of aliphatic alkenes and dialkenes. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1757-68	3.6	36
37	Characterization of polar compounds and oligomers in secondary organic aerosol using liquid chromatography coupled to mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 474-80	7.8	40
36	Gas/particle partitioning of carbonyls in the photooxidation of isoprene and 1,3,5-trimethylbenzene. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3215-3230	6.8	87
35	A denuder-filter sampling technique for the detection of gas and particle phase carbonyl compounds. <i>Environmental Science & Technology</i> , 2007 , 41, 6514-20	10.3	49
34	Rate coefficients for the gas-phase reaction of hydroxyl radicals with the dimethylbenzaldehydes. <i>International Journal of Chemical Kinetics</i> , 2006 , 38, 563-569	1.4	3
33	Gaseous and Particulate Products from the Atmospheric Ozonolysis of a Biogenic Hydrocarbon, Sabinene. <i>Environmental Chemistry</i> , 2006 , 3, 286	3.2	8
32	Chamber Studies on the Photolysis of Aldehydes <i>Environmental</i> 2006 , 111-119		1
31	The remarkable reaction of N ₂ O with a binary component lanthanide oxide mixture. <i>Chemical Communications</i> , 2006 , 3889-90	5.8	0
30	High sensitivity in situ monitoring of NO ₃ in an atmospheric simulation chamber using incoherent broadband cavity-enhanced absorption spectroscopy. <i>Environmental Science & Technology</i> , 2006 , 40, 6758-63	10.3	108
29	The atmospheric photolysis of E-2-hexenal, Z-3-hexenal and E,E-2,4-hexadienal. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 5236-46	3.6	35
28	Kinetic Studies on the Reactions of Hydroxyl Radicals with Cyclic Ethers and Aliphatic Diethers. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5224-5224	2.8	
27	Simulation Chamber Studies of the Atmospheric Oxidation of 2-Methyl-3-Buten-2-ol: Reaction with Hydroxyl Radicals and Ozone Under a Variety of Conditions. <i>Journal of Atmospheric Chemistry</i> , 2006 , 56, 33-55	3.2	43
26	Development of a detailed chemical mechanism (MCMv3.1) for the atmospheric oxidation of aromatic hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 641-664	6.8	364
25	The influence of reaction conditions on the photooxidation of diisopropyl ether. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 176, 86-97	4.7	13
24	Kinetics of the gas-phase reactions of OH and NO ₃ radicals with aromatic aldehydes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 176, 172-182	4.7	25
23	Kinetic Studies on the Reactions of Hydroxyl Radicals with a Series of Alkoxy Esters. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 7386-7392	2.8	8
22	Photolysis of chloral under atmospheric conditions. <i>Environmental Science & Technology</i> , 2004 , 38, 831-7	10.3	24

21	Kinetics of the Gas-Phase Reactions of OH and NO ₃ Radicals with Dimethylphenols. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11019-11025	2.8	53
20	Kinetic Studies on the Reactions of Hydroxyl Radicals with Cyclic Ethers and Aliphatic Diethers. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1499-1505	2.8	53
19	A kinetic and mechanistic study of the gas-phase reactions of OH radicals and Cl atoms with some halogenated acetones and their atmospheric implications. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3874	3.6	37
18	Kinetic Studies of OH and O ₃ Reactions with Allyl and Isopropenyl Acetate. <i>Journal of Atmospheric Chemistry</i> , 2000 , 37, 161-172	3.2	25
17	Kinetic and Mechanistic Study of OH- and Cl-Initiated Oxidation of Two Unsaturated HFCs: C ₄ F ₉ CHCH ₂ and C ₆ F ₁₃ CHCH ₂ . <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8512-8520	2.8	37
16	Mechanisms for the chlorine atom initiated oxidation of dimethoxymethane and 1,2-dimethoxyethane in the presence of NO _x . <i>Chemosphere</i> , 1999 , 38, 1197-1204	8.4	17
15	A Study of Ozone Laminae Using Diabatic Trajectories, Contour Advection and Photochemical Trajectory Model Simulations.. <i>Journal of Atmospheric Chemistry</i> , 1998 , 30, 187-207	3.2	55
14	Determination of Arrhenius parameters for thereactions of ozone with cycloalkenes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 2877-2881		36
13	Heterosupramolecular Chemistry: Self-Assembly of an Electron Donor (TiO ₂ Nanocrystallite)Acceptor (Viologen) Complex. <i>Chemistry of Materials</i> , 1997 , 9, 1765-1772	9.6	32
12	Kinetic Studies on the Reactions of Hydroxyl Radicals with Diethers and Hydroxyethers. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5770-5775	2.8	59
11	Self-Assembly of Heterosupermolecules. <i>Chemistry of Materials</i> , 1997 , 9, 624-631	9.6	24
10	Prolonged stratospheric ozone loss in the 1995-96 Arctic winter. <i>Nature</i> , 1997 , 389, 835-838	50.4	192
9	An infrared study of the chemistry of methyl species on Pt(111) formed by the decomposition of dimethylmercury. <i>Surface Science</i> , 1996 , 360, 93-103	1.8	3
8	The role of co-adsorbed metal atoms in the chemistry of methyl species on Pt(111) formed by the decomposition of dimethylmercury and dimethylzinc. <i>Surface Science</i> , 1996 , 360, 81-92	1.8	4
7	Reflection-Absorption IR spectrum of chlorine adatoms on the silver(100) surface. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 879-880		7
6	The adsorption and thermal decomposition of dimethylzinc on Pt(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993 , 64-65, 477-482	1.7	8
5	Single particle diversity and mixing state measurements		1
4	Single particle characterization of biomass burning organic aerosol (BBOA): evidence for non-uniform mixing of high molecular weight organics and potassium		7

3	Quantification of black carbon mixing state from traffic: implications for aerosol optical properties	2
2	Molecular composition of aged secondary organic aerosol generated from a mixture of biogenic volatile compounds using ultrahigh resolution mass spectrometry	3
1	Molecular composition of biogenic secondary organic aerosols using ultrahigh resolution mass spectrometry: comparing laboratory and field studies	1