

John C Wenger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4363682/publications.pdf>

Version: 2024-02-01

106
papers

7,945
citations

94269

37
h-index

58464

82
g-index

130
all docs

130
docs citations

130
times ranked

6373
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time Monitoring of Aerosol Generating Dental Procedures. Journal of Dentistry, 2022, 120, 104092.	1.7	14
2	A new on-line SPE LC-HRMS method for the analysis of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) in PM2.5 and its application for screening atmospheric particulates from Dublin and Enniscorthy, Ireland. Science of the Total Environment, 2022, 835, 155496.	3.9	12
3	Characterization and source apportionment of single particles from metalworking activities. Environmental Pollution, 2021, 270, 116078.	3.7	7
4	Assessment of Environmental and Occupational Risk Factors for the Mitigation and Containment of a COVID-19 Outbreak in a Meat Processing Plant. Frontiers in Public Health, 2021, 9, 769238.	1.3	12
5	On the use of reference mass spectra for reducing uncertainty in source apportionment of solid-fuel burning in ambient organic aerosol. Atmospheric Measurement Techniques, 2021, 14, 6905-6916.	1.2	3
6	Photochemistry of 2-butenedial and 4-oxo-2-pentenal under atmospheric boundary layer conditions. Physical Chemistry Chemical Physics, 2019, 21, 1160-1171.	1.3	13
7	Investigation of coastal sea-fog formation using the WIBS (wideband integrated bioaerosol sensor) technique. Atmospheric Chemistry and Physics, 2019, 19, 5737-5751.	1.9	10
8	Investigation on the near-field evolution of industrial plumes from metalworking activities. Science of the Total Environment, 2019, 668, 443-456.	3.9	16
9	Wintertime aerosol dominated by solid-fuel-burning emissions across Ireland: insight into the spatial and chemical variation in submicron aerosol. Atmospheric Chemistry and Physics, 2019, 19, 14091-14106.	1.9	14
10	1638câ€...Particles at work â€“ and everywhere else. , 2018, , .		0
11	Extreme air pollution from residential solid fuel burning. Nature Sustainability, 2018, 1, 512-517.	11.5	59
12	Source characterization of urban particles from meat smoking activities in Chongqing, China using single particle aerosol mass spectrometry. Environmental Pollution, 2017, 228, 92-101.	3.7	35
13	Gas- and particle-phase products from the photooxidation of acenaphthene and acenaphthylene by OH radicals. Atmospheric Environment, 2017, 151, 34-44.	1.9	16
14	Distinct high molecular weight organic compound (HMW-OC) types in aerosol particles collected at a coastal urban site. Atmospheric Environment, 2017, 171, 118-125.	1.9	3
15	Characterization of Primary Organic Aerosol from Domestic Wood, Peat, and Coal Burning in Ireland. Environmental Science & Technology, 2017, 51, 10624-10632.	4.6	31
16	Sources and mixing state of summertime background aerosol in the north-western Mediterranean basin. Atmospheric Chemistry and Physics, 2017, 17, 6975-7001.	1.9	41
17	Optical, physical and chemical properties of aerosols transported to a coastal site in the western Mediterranean: a focus on primary marine aerosols. Atmospheric Chemistry and Physics, 2017, 17, 7891-7915.	1.9	19
18	Chemical complexity of the urban atmosphere and its consequences: general discussion. Faraday Discussions, 2016, 189, 137-167.	1.6	1

#	ARTICLE	IF	CITATIONS
19	Numerical modelling strategies for the urban atmosphere: general discussion. Faraday Discussions, 2016, 189, 635-660.	1.6	0
20	Enhanced Volatile Organic Compounds emissions and organic aerosol mass increase the oligomer content of atmospheric aerosols. Scientific Reports, 2016, 6, 35038.	1.6	80
21	Molecular composition of organic aerosols at urban background and road tunnel sites using ultra-high resolution mass spectrometry. Faraday Discussions, 2016, 189, 51-68.	1.6	50
22	Gas and particulate phase products from the ozonolysis of acenaphthylene. Atmospheric Environment, 2016, 142, 104-113.	1.9	10
23	On the simultaneous deployment of two single-particle mass spectrometers at an urban background and a roadside site during SAPUSS. Atmospheric Chemistry and Physics, 2016, 16, 9693-9710.	1.9	27
24	Single-particle characterization of biomass burning organic aerosol (BBOA): evidence for non-uniform mixing of high molecular weight organics and potassium. Atmospheric Chemistry and Physics, 2016, 16, 5561-5572.	1.9	41
25	Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. Atmospheric Chemistry and Physics, 2016, 16, 455-504.	1.9	110
26	Quantification of black carbon mixing state from traffic: implications for aerosol optical properties. Atmospheric Chemistry and Physics, 2016, 16, 4693-4706.	1.9	43
27	Simulation of particle diversity and mixing state over Greater Paris: a model-measurement inter-comparison. Faraday Discussions, 2016, 189, 547-566.	1.6	23
28	Upper limits for absorption by water vapor in the near-UV. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 170, 194-199.	1.1	20
29	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. Environmental Pollution, 2016, 210, 9-17.	3.7	24
30	Light-absorbing properties of ambient black carbon and brown carbon from fossil fuel and biomass burning sources. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6619-6633.	1.2	98
31	Molecular composition of fresh and aged secondary organic aerosol from a mixture of biogenic volatile compounds: a high-resolution mass spectrometry study. Atmospheric Chemistry and Physics, 2015, 15, 5683-5695.	1.9	74
32	Single-particle speciation of alkylamines in ambient aerosol at five European sites. Analytical and Bioanalytical Chemistry, 2015, 407, 5899-5909.	1.9	47
33	Fine and Ultrafine Particles in the Vicinity of Industrial Activities: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 2305-2356.	6.6	50
34	Temperature dependent rate coefficients for the reaction of OH radicals with dimethylbenzoquinones. Chemical Physics Letters, 2015, 639, 145-150.	1.2	1
35	Gas- and Particle-Phase Products from the Chlorine-Initiated Oxidation of Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry A, 2015, 119, 11170-11181.	1.1	35
36	Apportionment of urban aerosol sources in Cork (Ireland) by synergistic measurement techniques. Science of the Total Environment, 2014, 493, 197-208.	3.9	18

#	ARTICLE	IF	CITATIONS
37	Kinetics of the Gas-Phase Reactions of Chlorine Atoms with Naphthalene, Acenaphthene, and Acenaphthylene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3535-3540.	1.1	16
38	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.	1.9	64
39	Predicting hygroscopic growth using single particle chemical composition estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9567-9577.	1.2	16
40	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.	1.9	70
41	Single particle diversity and mixing state measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6289-6299.	1.9	49
42	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.	1.9	29
43	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.	1.9	31
44	A novel, broadband spectroscopic method to measure the extinction coefficient of aerosols in the near-ultraviolet. , 2013, , .		8
45	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.	1.9	108
46	On the spatial distribution and evolution of ultrafine particles in Barcelona. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 741-759.	1.9	85
47	Presenting SAPUSS: Solving Aerosol Problem by Using Synergistic Strategies in Barcelona, Spain. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8991-9019.	1.9	27
48	Characterization of urban aerosol in Cork city (Ireland) using aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4997-5015.	1.9	75
49	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.	1.9	128
50	Total OH reactivity measurements in laboratory studies of the photooxidation of isoprene. <i>Atmospheric Environment</i> , 2012, 62, 243-247.	1.9	11
51	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, 11813-11820.	4.6	26
52	Nitrogenated and aliphatic organic vapors as possible drivers for marine secondary organic aerosol growth. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
53	Gas phase reaction of OH radicals with (E)- β -farnesene at 296 K: Rate coefficient and carbonyl products. <i>Atmospheric Environment</i> , 2012, 46, 338-345.	1.9	14
54	Using a pattern recognition approach to link inorganic chemical fingerprints of ambient PM _{2.5} with in vitro biological effects. <i>Air Quality, Atmosphere and Health</i> , 2012, 5, 125-147.	1.5	7

#	ARTICLE	IF	CITATIONS
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, 2842-2849.	1.3	31
56	The Atmospheric Photolysis of <i>o</i> -Tolualdehyde. <i>Environmental Science & Technology</i> , 2011, 45, 9649-9657.	4.6	15
57	Near-Ultraviolet Absorption Cross Sections of Nitrophenols and Their Potential Influence on Tropospheric Oxidation Capacity. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12235-12242.	1.1	73
58	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, 2143-2155.	3.9	63
59	Characterisation of airborne particles and associated organic components produced from incense burning. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 3095-3102.	1.9	35
60	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.	1.9	98
61	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.	1.9	61
62	The use of real-time monitoring data to evaluate major sources of airborne particulate matter. <i>Atmospheric Environment</i> , 2010, 44, 1116-1125.	1.9	30
63	Product Study of the OH Radical and Cl Atom Initiated Oxidation of 1,3-Dioxane. <i>ChemPhysChem</i> , 2010, 11, 3980-3986.	1.0	4
64	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.	1.4	14
65	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, 11645-11650.	1.1	70
66	Porous silica spheres as indoor air pollutant scavengers. <i>Journal of Environmental Monitoring</i> , 2010, 12, 2244.	2.1	11
67	Airborne emissions in the harbour and port of Cork. <i>Biomarkers</i> , 2009, 14, 12-16.	0.9	6
68	Aerosol formation yields from the reaction of catechol with ozone. <i>Atmospheric Environment</i> , 2009, 43, 2360-2365.	1.9	41
69	Gas-phase reaction of (E)- β -farnesene with ozone: Rate coefficient and carbonyl products. <i>Atmospheric Environment</i> , 2009, 43, 3182-3190.	1.9	29
70	Characterisation of single particles from in-port ship emissions. <i>Atmospheric Environment</i> , 2009, 43, 6408-6414.	1.9	148
71	Effect of Relative Humidity on Gas/Particle Partitioning and Aerosol Mass Yield in the Photooxidation of <i>p</i> -Xylene. <i>Environmental Science & Technology</i> , 2009, 43, 1884-1889.	4.6	61
72	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5155-5236.	1.9	3,486

#	ARTICLE	IF	CITATIONS
73	Reactive oxidation products promote secondary organic aerosol formation from green leaf volatiles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3815-3823.	1.9	54
74	Structure-activity relationship (SAR) for the gas-phase ozonolysis of aliphatic alkenes and dialkenes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1757.	1.3	42
75	Characterization of Polar Compounds and Oligomers in Secondary Organic Aerosol Using Liquid Chromatography Coupled to Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 474-480.	3.2	48
76	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.	1.9	101
77	A Denuder-Filter Sampling Technique for the Detection of Gas and Particle Phase Carbonyl Compounds. <i>Environmental Science & Technology</i> , 2007, 41, 6514-6520.	4.6	57
78	The remarkable reaction of N ₂ O with a binary component lanthanide oxide mixture. <i>Chemical Communications</i> , 2006, , 3889.	2.2	2
79	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, 6758-6763.	4.6	127
80	The atmospheric photolysis of E-2-hexenal, Z-3-hexenal and E,E-2,4-hexadienal. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5236-5246.	1.3	37
81	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.	1.1	0
82	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.	1.4	48
83	Rate coefficients for the gas-phase reaction of hydroxyl radicals with the dimethylbenzaldehydes. <i>International Journal of Chemical Kinetics</i> , 2006, 38, 563-569.	1.0	5
84	Gaseous and Particulate Products from the Atmospheric Ozonolysis of a Biogenic Hydrocarbon, Sabinene. <i>Environmental Chemistry</i> , 2006, 3, 286.	0.7	9
85	Chamber Studies on the Photolysis of Aldehydes <i>Environmental</i> , 2006, , 111-119.		3
86	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.	1.9	442
87	The influence of reaction conditions on the photooxidation of diisopropyl ether. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 86-97.	2.0	14
88	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.	2.0	27
89	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.	1.1	10
90	Photolysis of Chloral under Atmospheric Conditions. <i>Environmental Science & Technology</i> , 2004, 38, 831-837.	4.6	26

#	ARTICLE	IF	CITATIONS
91	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.	1.1	62
92	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.	1.1	64
93	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.	1.3	42
94	Kinetic Studies of OH and O ₃ Reactions with Allyl and Isopropenyl Acetate. <i>Journal of Atmospheric Chemistry</i> , 2000, 37, 161-172.	1.4	26
95	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.	1.1	39
96	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.	4.2	19
97	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 187-207.	1.4	64
98	Determination of Arrhenius parameters for the reactions of ozone with cycloalkenes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2877-2881.	1.7	37
99	Heterosupramolecular Chemistry: A Self-Assembly of an Electron Donor (TiO ₂ Nanocrystallite) Acceptor (Viologen) Complex. <i>Chemistry of Materials</i> , 1997, 9, 1765-1772.	3.2	38
100	Kinetic Studies on the Reactions of Hydroxyl Radicals with Diethers and Hydroxyethers. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5770-5775.	1.1	65
101	Self-Assembly of Heterosupermolecules. <i>Chemistry of Materials</i> , 1997, 9, 624-631.	3.2	30
102	Prolonged stratospheric ozone loss in the 1995-96 Arctic winter. <i>Nature</i> , 1997, 389, 835-838.	13.7	216
103	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.	0.8	5
104	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.	0.8	6
105	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.	1.7	11
106	The adsorption and thermal decomposition of dimethylzinc on Pt(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 64-65, 477-482.	0.8	9