

Coralie Schoemaeker

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,595
citations

236612

25
h-index

329751

37
g-index

64
all docs

64
docs citations

64
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpectedly high indoor hydroxyl radical concentrations associated with nitrous acid. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13294-13299.	3.3	168
2	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. Atmospheric Measurement Techniques, 2017, 10, 4023-4053.	1.2	74
3	Rate constant of the reaction between CH ₃ O ₂ and OH radicals. Chemical Physics Letters, 2014, 593, 7-13.	1.2	68
4	Quantification of OH and HO ₂ radicals during the low-temperature oxidation of hydrocarbons by Fluorescence Assay by Gas Expansion technique. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20014-20017.	3.3	65
5	Photocatalytic Decomposition of H ₂ O ₂ on Different TiO ₂ Surfaces Along with the Concurrent Generation of HO ₂ Radicals Monitored Using Cavity Ring Down Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 10090-10097.	1.5	62
6	The <i>MERMAID</i> study: indoor and outdoor average pollutant concentrations in 10 low-energy school buildings in France. Indoor Air, 2016, 26, 702-713.	2.0	53
7	The Reaction between CH ₃ O ₂ and OH Radicals: Product Yields and Atmospheric Implications. Environmental Science & Technology, 2017, 51, 2170-2177.	4.6	51
8	Direct observation of OH radicals after 565nm multi-photon excitation of NO ₂ in the presence of H ₂ O. Chemical Physics Letters, 2011, 513, 12-16.	1.2	48
9	Simultaneous, time-resolved measurements of OH and HO ₂ radicals by coupling of high repetition rate LIF and cw-CRDS techniques to a laser photolysis reactor and its application to the photolysis of H ₂ O ₂ . Applied Physics B: Lasers and Optics, 2011, 103, 725-733.	1.1	48
10	Quantification of Hydrogen Peroxide during the Low-Temperature Oxidation of Alkanes. Journal of the American Chemical Society, 2012, 134, 11944-11947.	6.6	46
11	Assessment of the impact of oxidation processes on indoor air pollution using the new time-resolved INCA-Indoor model. Atmospheric Environment, 2015, 122, 521-530.	1.9	43
12	Experimental and modeling study of the oxidation of n-butane in a jet stirred reactor using cw-CRDS measurements. Physical Chemistry Chemical Physics, 2013, 15, 19686.	1.3	42
13	Rate Constant of the Reaction between CH ₃ O ₂ Radicals and OH Radicals Revisited. Journal of Physical Chemistry A, 2016, 120, 8923-8932.	1.1	41
14	The reaction of hydroxyl and methylperoxy radicals is not a major source of atmospheric methanol. Nature Communications, 2018, 9, 4343.	5.8	32
15	ROOOH: a missing piece of the puzzle for OH measurements in low-NO environments?. Atmospheric Chemistry and Physics, 2019, 19, 349-362.	1.9	32
16	Photolysis of CH ₃ CHO at 248 nm: Evidence of triple fragmentation from primary quantum yield of CH ₃ and HCO radicals and H atoms. Journal of Chemical Physics, 2014, 140, 214308.	1.2	30
17	Intercomparison of the comparative reactivity method (CRM) and pump-probe technique for measuring total OH reactivity in an urban environment. Atmospheric Measurement Techniques, 2015, 8, 4243-4264.	1.2	30
18	The reaction of fluorine atoms with methanol: yield of CH ₃ O/CH ₂ OH and rate constant of the reactions CH ₃ O + CH ₃ O and CH ₃ O + HO ₂ . Physical Chemistry Chemical Physics, 2018, 20, 10660-10670.	1.3	29

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19	Reactive indoor air chemistry and health – A workshop summary. International Journal of Hygiene and Environmental Health, 2017, 220, 1222-1229.	2.1	28
20	Absorption Spectrum and Absolute Absorption Cross Sections of CH ₃ O ₂ Radicals and CH ₃ I Molecules in the Wavelength Range 7473–7497 cm ⁻¹ . Journal of Physical Chemistry A, 2013, 117, 12802-12811.	1.1	27
21	Kinetics of the reaction of OH radicals with CH ₃ OH and CD ₃ OD studied by laser photolysis coupled to high repetition rate laser induced fluorescence. Reaction Kinetics and Catalysis Letters, 2009, 96, 291-297.	0.6	26
22	Measurement of Absolute Absorption Cross Sections for Nitrous Acid (HONO) in the Near-Infrared Region by the Continuous Wave Cavity Ring-Down Spectroscopy (cw-CRDS) Technique Coupled to Laser Photolysis. Journal of Physical Chemistry A, 2011, 115, 10720-10728.	1.1	26
23	Detection of some stable species during the oxidation of methane by coupling a jet-stirred reactor (JSR) to cw-CRDS. Chemical Physics Letters, 2012, 534, 1-7.	1.2	26
24	Experimental determination of the rate constant of the reaction between C ₂ H ₅ O ₂ and OH radicals. Chemical Physics Letters, 2015, 619, 196-200.	1.2	26
25	Experimental and theoretical investigation of the reaction of RO ₂ radicals with OH radicals: Dependence of the HO ₂ yield on the size of the alkyl group. International Journal of Chemical Kinetics, 2018, 50, 670-680.	1.0	26
26	Atmospheric and kinetic studies of OH and HO ₂ by the FAGE technique. Journal of Environmental Sciences, 2012, 24, 78-86.	3.2	24
27	Impact of the spectral and spatial properties of natural light on indoor gas-phase chemistry: Experimental and modeling study. Indoor Air, 2018, 28, 426-440.	2.0	24
28	Direct Measurement of the Equilibrium Constants of the Reaction of Formaldehyde and Acetaldehyde with HO ₂ Radicals. International Journal of Chemical Kinetics, 2014, 46, 245-259.	1.0	22
29	Impact of material emissions and sorption of volatile organic compounds on indoor air quality in a low energy building: Field measurements and modeling. Indoor Air, 2018, 28, 924-935.	2.0	21
30	Measurements and modelling of HCN and CN species profiles in laminar CH ₄ /O ₂ /N ₂ low pressure flames using LIF/CRDS techniques. Proceedings of the Combustion Institute, 2015, 35, 745-752.	2.4	20
31	Portable novel micro-device for BTEX real-time monitoring: Assessment during a field campaign in a low consumption energy junior high school classroom. Atmospheric Environment, 2016, 126, 211-217.	1.9	20
32	Identification of the major HO _x radical pathways in an indoor air environment. Indoor Air, 2017, 27, 434-442.	2.0	20
33	Rate constants of the reaction of C ₂ –C ₄ peroxy radicals with OH radicals. Chemical Physics Letters, 2017, 684, 245-249.	1.2	20
34	Direct detection of HO ₂ radicals in the vicinity of TiO ₂ photocatalytic surfaces using cw-CRDS. Applied Catalysis B: Environmental, 2010, 99, 413-419.	10.8	18
35	Assessment of indoor HONO formation mechanisms based on in situ measurements and modeling. Indoor Air, 2017, 27, 443-451.	2.0	17
36	Investigation on the near-field evolution of industrial plumes from metalworking activities. Science of the Total Environment, 2019, 668, 443-456.	3.9	16

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37	Water Vapor Does Not Catalyze the Reaction between Methanol and OH Radicals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5013-5017.	7.2	16
38	On the direct formation of HO ₂ radicals after 248 nm irradiation of benzene C ₆ H ₆ in the presence of O ₂ . <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 379-385.	1.1	15
39	OH RADICAL REACTIVITY MEASUREMENTS BY FAGE. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 107-114.	0.2	15
40	(2+1)REMPI on molecular nitrogen through the 1 Σ ^{g+} (II)-state. <i>Chemical Physics Letters</i> , 2007, 435, 242-246.	1.2	13
41	Absorption spectrum and absorption cross sections of the 2 $\frac{1}{2}$ 1 band of HO ₂ between 20 and 760 Torr air in the range 6636 and 6639 cm ⁻¹ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 211, 107-114.	1.1	13
42	The past, present, and future of indoor air chemistry. <i>Indoor Air</i> , 2020, 30, 373-376.	2.0	13
43	Fast sorption measurements of volatile organic compounds on building materials: Part 1 – Methodology developed for field applications. <i>Building and Environment</i> , 2016, 99, 200-209.	3.0	12
44	Measurement of line strengths in the $\tilde{\nu}_2$ A $\tilde{\nu}_1$ transition of HO ₂ and DO ₂ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 161-170.	1.1	12
45	Variability of hydroxyl radical (OH) reactivity in the Landes maritime pine forest: results from the LANDEX campaign 2017. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1277-1300.	1.9	11
46	HO ₂ Formation from the Photoexcitation of Benzene/O ₂ Mixtures at 248 nm: An Energy Dependence Study. <i>ChemPhysChem</i> , 2010, 11, 3867-3873.	1.0	10
47	Absolute absorption cross sections for two selected lines of formaldehyde around 6625 cm ⁻¹ . <i>Journal of Molecular Spectroscopy</i> , 2012, 281, 18-23.	0.4	10
48	Fast sorption measurements of VOCs on building materials: Part 2 – Comparison between FLEC and CLIMPAQ methods. <i>Building and Environment</i> , 2016, 99, 239-251.	3.0	10
49	Quantitative IBBCEAS measurements of I ₂ in the presence of aerosols. <i>Applied Physics B: Lasers and Optics</i> , 2014, 114, 421-432.	1.1	9
50	Note: A laser-flash photolysis and laser-induced fluorescence detection technique for measuring total HO ₂ reactivity in ambient air. <i>Review of Scientific Instruments</i> , 2013, 84, 076106.	0.6	8
51	Absolute Absorption Cross-Section of the $\tilde{\nu}_2$ Electronic Transition of the Ethyl Peroxy Radical and Rate Constant of Its Cross Reaction with HO ₂ . <i>Photonics</i> , 2021, 8, 296.	0.9	8
52	Atmospheric reactivity of biogenic volatile organic compounds in a maritime pine forest during the LANDEX episode 1 field campaign. <i>Science of the Total Environment</i> , 2021, 756, 144129.	3.9	7
53	A modeling study of the impact of photolysis on indoor air quality. <i>Indoor Air</i> , 2022, 32, .	2.0	7
54	Rate Constant and Branching Ratio for the Reactions of the Ethyl Peroxy Radical with Itself and with the Ethoxy Radical. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 181-188.	1.2	6

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55	Formation of HO ₂ Radicals from the 248 nm Two-Photon Excitation of Different Aromatic Hydrocarbons in the Presence of O ₂ . Journal of Physical Chemistry A, 2012, 116, 6231-6239.	1.1	5
56	Yield of HO ₂ Radicals in the OH-Initiated Oxidation of SO ₂ . Zeitschrift Fur Physikalische Chemie, 2011, 225, 1105-1115.	1.4	4
57	Data on comparison between FLEC and CLIMPAQ methods used for fast sorption measurements of VOCs on building materials. Data in Brief, 2016, 7, 518-523.	0.5	4
58	Fast sorption measurements of volatile organic compounds on building materials: Part 1 " Methodology developed for field applications. Data in Brief, 2016, 6, 953-958.	0.5	3
59	Water Vapor Does Not Catalyze the Reaction between Methanol and OH Radicals. Angewandte Chemie, 2019, 131, 5067-5071.	1.6	3
60	Water does not catalyze the reaction of OH radicals with ethanol. Physical Chemistry Chemical Physics, 2020, 22, 7165-7168.	1.3	2
61	HOx and ROx Radicals in Atmospheric Chemistry. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 77-92.	0.1	2