

Robert Wegener

List of Publications by Year in descending order

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43
papers

1,989
citations

304743

22
h-index

276875

41
g-index

79
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79
docs citations

79
times ranked

2400
citing authors

#	ARTICLE	IF	CITATIONS
1	Air quality observations onboard commercial and targeted Zeppelin flights in Germany – a platform for high-resolution trace-gas and aerosol measurements within the planetary boundary layer. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3827-3842.	3.1	1
2	Investigation of the limonene photooxidation by OH at different NO concentrations in the atmospheric simulation chamber SAPHIR (Simulation of Atmospheric PHotochemistry In a large) <i>Journal of Physical Chemistry A</i> , 2019, 123, 1050-1060.	4.9	10
3	Atmospheric photo-oxidation of myrcene: OH reaction rate constant, gas-phase oxidation products and radical budgets. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16067-16091.	4.9	4
4	Unravelling a black box: an open-source methodology for the field calibration of small air quality sensors. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7221-7241.	3.1	6
5	Importance of isomerization reactions for OH radical regeneration from the photo-oxidation of isoprene investigated in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3333-3355.	4.9	44
6	Photooxidation of pinonaldehyde at ambient conditions investigated in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13701-13719.	4.9	6
7	Investigation of the α -pinene photooxidation by OH in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11635-11649.	4.9	17
8	Effects of NO ₂ and SO ₂ on the secondary organic aerosol formation from photooxidation of α -pinene and limonene. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1611-1628.	4.9	110
9	Evaluation of OH and HO ₂ concentrations and their budgets during photooxidation of 2-methyl-3-butene-2-ol (MBO) in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11409-11422.	4.9	20
10	Gas-to-particle partitioning of major biogenic oxidation products: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12969-12989.	4.9	18
11	Comparison of three aerosol chemical characterization techniques utilizing PTR-ToF-MS: a study on freshly formed and aged biogenic SOA. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1481-1500.	3.1	17
12	Influence of urban air on proton exchange membrane fuel cell vehicles – Long term effects of air contaminants in an authentic driving cycle. <i>Journal of Power Sources</i> , 2018, 400, 556-565.	7.8	20
13	Investigation of the oxidation of methyl vinyl ketone (MVK) by OH radicals in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8001-8016.	4.9	22
14	Investigation of the α -pinene photooxidation by OH in the atmosphere simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6631-6650.	4.9	27
15	Comparison of OH reactivity measurements in the atmospheric simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4023-4053.	3.1	74
16	A new plant chamber facility, PLUS, coupled to the atmosphere simulation chamber SAPHIR. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1247-1259.	3.1	15
17	Twenty years of ambient observations of nitrogen oxides and specified hydrocarbons in air masses dominated by traffic emissions in Germany. <i>Faraday Discussions</i> , 2016, 189, 407-437.	3.2	32
18	Secondary organic aerosol formation from hydroxyl radical oxidation and ozonolysis of monoterpenes. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 991-1012.	4.9	67

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19	Evidence for an unidentified non-photochemical ground-level source of formaldehyde in the Po Valley with potential implications for ozone production. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1289-1298.	4.9	36
20	ACTRIS non-methane hydrocarbon intercomparison experiment in Europe to support WMO GAW and EMEP observation networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2715-2736.	3.1	28
21	Response to Comment on "Missing gas-phase source of HONO inferred from Zeppelin measurements in the troposphere". <i>Science</i> , 2015, 348, 1326-1326.	12.6	10
22	Intercomparison of Hantzsch and fiber-laser-induced-fluorescence formaldehyde measurements. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1571-1580.	3.1	24
23	Missing Gas-Phase Source of HONO Inferred from Zeppelin Measurements in the Troposphere. <i>Science</i> , 2014, 344, 292-296.	12.6	154
24	OH regeneration from methacrolein oxidation investigated in the atmosphere simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7895-7908.	4.9	38
25	Experimental evidence for efficient hydroxyl radical regeneration in isoprene oxidation. <i>Nature Geoscience</i> , 2013, 6, 1023-1026.	12.9	132
26	Comparisons of observed and modeled OH and HO ₂ concentrations during the ambient measurement period of the HO _x Comp field campaign. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2567-2585.	4.9	30
27	HO _x budgets during HO _x Comp: A case study of HO _x chemistry under NO _x -limited conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
28	Temperature dependence of the kinetic isotope effect in <i>i</i> -pinene ozonolysis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
29	Isotope effect in the formation of H ₂ from H ₂ CO studied at the atmospheric simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5343-5357.	4.9	25
30	Intercomparison of measurements of NO ₂ concentrations in the atmosphere simulation chamber SAPHIR during the NO ₃ Comp campaign. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 21-37.	3.1	77
31	Intercomparison of peroxy radical measurements obtained at atmospheric conditions by laser-induced fluorescence and electron spin resonance spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 55-64.	3.1	30
32	Stable carbon isotope composition of secondary organic aerosol from <i>i</i> -pinene oxidation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	51
33	Isoprene oxidation by nitrate radical: alkyl nitrate and secondary organic aerosol yields. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6685-6703.	4.9	208
34	Photochemical production of aerosols from real plant emissions. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4387-4406.	4.9	133
35	Intercomparison of oxygenated volatile organic compound measurements at the SAPHIR atmosphere simulation chamber. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	78
36	Investigation of the formaldehyde differential absorption cross section at high and low spectral resolution in the simulation chamber SAPHIR. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3579-3586.	4.9	25

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37	Simulation chamber investigation of the reactions of ozone with short-chain alkenes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83
38	OH-initiated degradation of several hydrocarbons in the atmosphere simulation chamber SAPHIR. <i>Journal of Atmospheric Chemistry</i> , 2007, 57, 203-214.	3.2	18
39	Dehydrogenation of ocimene by active carbon: artefact formation during headspace sampling from leaves of <i>Phaseolus lunatus</i> . <i>Arkivoc</i> , 2007, 2007, 164-172.	0.5	7
40	Simulation chamber studies on the NO ₃ chemistry of atmospheric aldehydes. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	24
41	Chemical analysis of volatiles emitted by <i>Pinus sylvestris</i> after induction by insect oviposition. <i>Journal of Chemical Ecology</i> , 2003, 29, 1235-1252.	1.8	125
42	Identification and synthesis of homoterpenoids emitted from elm leaves after elicitation by beetle eggs. <i>Tetrahedron</i> , 2002, 58, 315-319.	1.9	19
43	Analysis of volatiles induced by oviposition of elm leaf beetle <i>Xanthogaleruca luteola</i> on <i>Ulmus minor</i> . <i>Journal of Chemical Ecology</i> , 2001, 27, 499-515.	1.8	62