

Paul J Crutzen

List of Publications by Year in descending order

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55
papers

17,858
citations

126858

33
h-index

189801

50
g-index

62
all docs

62
docs citations

62
times ranked

14366
citing authors

#	ARTICLE	IF	CITATIONS
1	Megacity development and the demise of coastal coral communities: Evidence from coral skeleton $\delta^{15}\text{N}$ records in the Pearl River estuary. <i>Global Change Biology</i> , 2020, 26, 1338-1353.	4.2	30
2	Dryland photoautotrophic soil surface communities endangered by global change. <i>Nature Geoscience</i> , 2018, 11, 185-189.	5.4	302
3	Was breaking the taboo on research on climate engineering via albedo modification a moral hazard, or a moral imperative?. <i>Earth's Future</i> , 2017, 5, 136-143.	2.4	33
4	Biomass Burning in the Tropics: Impact on Atmospheric Chemistry and Biogeochemical Cycles. <i>SpringerBriefs on Pioneers in Science and Practice</i> , 2016, , 165-188.	0.2	6
5	The Atmosphere After a Nuclear War: Twilight at Noon. <i>SpringerBriefs on Pioneers in Science and Practice</i> , 2016, , 125-152.	0.2	47
6	Biological soil crusts accelerate the nitrogen cycle through large NO and HONO emissions in drylands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15384-15389.	3.3	153
7	Atmospheric Chemistry and Climate in the Anthropocene / <i>Chemia Atmosferyczna I Klimat W Antropocenie</i> . <i>Chemistry, Didactics, Ecology, Metrology</i> , 2014, 19, 9-28.	0.1	13
8	Perspectives on our planet in the Anthropocene. <i>Environmental Chemistry</i> , 2013, 10, 269.	0.7	30
9	Global agriculture and nitrous oxide emissions. <i>Nature Climate Change</i> , 2012, 2, 410-416.	8.1	729
10	George C. Reid (1929–2011). <i>Eos</i> , 2011, 92, 307-307.	0.1	0
11	Learning about ozone depletion. <i>Climatic Change</i> , 2008, 89, 143-154.	1.7	35
12	Exploring the geoengineering of climate using stratospheric sulfate aerosols: The role of particle size. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	173
13	The Anthropocene: Are Humans Now Overwhelming the Great Forces of Nature. <i>Ambio</i> , 2007, 36, 614-621.	2.8	2,318
14	Emissions of major gaseous and particulate species during experimental burns of southern African biomass. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	84
15	Albedo Enhancement by Stratospheric Sulfur Injections: A Contribution to Resolve a Policy Dilemma?. <i>Climatic Change</i> , 2006, 77, 211-220.	1.7	1,265
16	A late change to the programme. <i>Nature</i> , 2004, 429, 349-349.	13.7	2
17	How Long Have We Been in the Anthropocene Era?. <i>Climatic Change</i> , 2003, 61, 251-257.	1.7	341
18	Comment on "Cloud condensation nuclei in the Amazon Basin: Marine conditions over a continent", by G. C. Roberts et al.. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	0

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19	The Parasol Effect on Climate. <i>Science</i> , 2003, 302, 1679-1681.	6.0	30
20	Organic trace gas measurements by PTR-MS during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 23-1.	3.3	89
21	Air mass classification during the INDOEX R/V Ronald Brown cruise using measurements of nonmethane hydrocarbons, CH ₄ , CO ₂ , CO, 14CO, and ¹⁸ O(CO). <i>Journal of Geophysical Research</i> , 2002, 107, INX2 20-1.	3.3	36
22	Modeling halogen chemistry in the marine boundary layer 1. Cloud-free MBL. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 9-1-ACH 9-16.	3.3	151
23	Modeling halogen chemistry in the marine boundary layer 2. Interactions with sulfur and the cloud-covered MBL. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1-ACH 2-12.	3.3	91
24	Geology of mankind. <i>Nature</i> , 2002, 415, 23-23.	13.7	3,177
25	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 37, 81-112.	1.4	95
26	Human-activity-enhanced formation of organic aerosols by biogenic hydrocarbon oxidation. <i>Journal of Geophysical Research</i> , 2000, 105, 9243-9354.	3.3	121
27	Production of boundary layer ozone from tropical American Savannah biomass burning emissions. <i>Atmospheric Environment</i> , 1999, 33, 4969-4975.	1.9	22
28	Biomass burning as a source of formaldehyde, acetaldehyde, methanol, acetone, acetonitrile, and hydrogen cyanide. <i>Geophysical Research Letters</i> , 1999, 26, 1161-1164.	1.5	313
29	Kinetics and Products of the Reactions BrO + DMS and Br + DMS at 298 K. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7199-7209.	1.1	57
30	Budgets of fixed nitrogen in the Orinoco Savannah Region: Role of pyrodenitrification. <i>Global Biogeochemical Cycles</i> , 1998, 12, 653-666.	1.9	21
31	Freezing of HNO ₃ /H ₂ SO ₄ /H ₂ O Solutions at Stratospheric Temperatures: Nucleation Statistics and Experiments. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1117-1133.	1.1	167
32	Atmospheric Aerosols: Biogeochemical Sources and Role in Atmospheric Chemistry. <i>Science</i> , 1997, 276, 1052-1058.	6.0	1,474
33	A large 13 CO deficit in the lower Antarctic stratosphere due to Ozone Hole Chemistry: Part I, Observations. <i>Geophysical Research Letters</i> , 1996, 23, 2125-2128.	1.5	37
34	A Large 13 CO deficit in the lower Antarctic stratosphere due to Ozone hole Chemistry: Part II, Modeling. <i>Geophysical Research Letters</i> , 1996, 23, 2129-2132.	1.5	24
35	Mein Leben mit O ₃ , NO _x und anderen YZO _x -Verbindungen (Nobel-Vortrag). <i>Angewandte Chemie</i> , 1996, 108, 1878-1898.	1.6	5
36	A mechanism for halogen release from sea-salt aerosol in the remote marine boundary layer. <i>Nature</i> , 1996, 383, 327-330.	13.7	706

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37	Introductory lecture. Overview of tropospheric chemistry: developments during the past quarter century and a look ahead. Faraday Discussions, 1995, 100, 1.	1.6	76
38	Reaction of N ₂ O ₅ on tropospheric aerosols: Impact on the global distributions of NO _x , O ₃ , and OH. Journal of Geophysical Research, 1993, 98, 7149-7163.	3.3	620
39	Modelling the chemistry of ozone, halogen compounds, and hydrocarbons in the arctic troposphere during spring. Tellus, Series B: Chemical and Physical Meteorology, 1993, 45, 522-532.	0.8	13
40	A 3 Dimensional Global Study of the Photochemistry of Ethane and Propane in the Troposphere: Production and Transport of Organic Nitrogen Compounds. , 1992, , 415-426.		8
41	Methane's sinks and sources. Nature, 1991, 350, 380-381.	13.7	263
42	Molecular nitrogen emissions from denitrification during biomass burning. Nature, 1991, 351, 135-137.	13.7	94
43	Importance of biomass burning in the atmospheric budgets of nitrogen-containing gases. Nature, 1990, 346, 552-554.	13.7	304
44	Tropospheric Ozone: An Overview. , 1988, , 3-32.		152
45	Acid rain at the K/T boundary. Nature, 1987, 330, 108-109.	13.7	32
46	Nitric acid cloud formation in the cold Antarctic stratosphere: a major cause for the springtime "ozone hole". Nature, 1986, 324, 651-655.	13.7	617
47	Globale Aspekte der atmosphärischen Chemie: Natürliche und anthropogene Einflüsse. , 1986, , 41-72.		0
48	The Emission of Sulfur and Nitrogen to the Remote Atmosphere Working-Group Report. , 1985, , 55-63.		2
49	A two-dimensional photochemical model of the atmosphere: 1. Chlorocarbon emissions and their effect on stratospheric ozone. Journal of Geophysical Research, 1983, 88, 6622-6640.	3.3	92
50	A two-dimensional photochemical model of the atmosphere: 2. The tropospheric budgets of the anthropogenic chlorocarbons CO, CH ₄ , CH ₃ Cl and the effect of various NO _x sources on tropospheric ozone. Journal of Geophysical Research, 1983, 88, 6641-6661.	3.3	270
51	Estimates of gross and net fluxes of carbon between the biosphere and the atmosphere from biomass burning. Climatic Change, 1980, 2, 207-247.	1.7	1,171
52	Biomass burning as a source of atmospheric gases CO, H ₂ , N ₂ O, NO, CH ₃ Cl and COS. Nature, 1979, 282, 253-256.	13.7	769
53	The origin of ozone in the troposphere. Nature, 1978, 274, 855-858.	13.7	278
54	Estimates on the production of CO and H ₂ from the oxidation of hydrocarbon emissions from vegetation. Geophysical Research Letters, 1978, 5, 679-682.	1.5	357

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55	The possible importance of CSO for the sulfate layer of the stratosphere. Geophysical Research Letters, 1976, 3, 73-76.	1.5	562