Paul J Crutzen

List of Publications by Year
in descending order

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55 papers	17,858 citations	126708 33 h-index	189595 50 g-index
62 all docs	62 docs citations	62 times ranked	14366 citing authors

#	Article	IF	Citations
1	Geology of mankind. Nature, 2002, 415, 23-23.	13.7	3,177
2	The Anthropocene: Are Humans Now Overwhelming the Great Forces of Nature. Ambio, 2007, 36, 614-621.	2.8	2,318
3	Atmospheric Aerosols: Biogeochemical Sources and Role in Atmospheric Chemistry. Science, 1997, 276, 1052-1058.	6.0	1,474
4	Albedo Enhancement by Stratospheric Sulfur Injections: A Contribution to Resolve a Policy Dilemma?. Climatic Change, 2006, 77, 211-220.	1.7	1,265
5	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
6	Biomass burning as a source of atmospheric gases CO, H2, N2O, NO, CH3Cl and COS. Nature, 1979, 282, 253-256.	13.7	769
7	Global agriculture and nitrous oxide emissions. Nature Climate Change, 2012, 2, 410-416.	8.1	729
8	A mechanism for halogen release from sea-salt aerosol in the remote marine boundary layer. Nature, 1996, 383, 327-330.	13.7	706
9	Reaction of N₂O₅ on tropospheric aerosols: Impact on the global distributions of NO_{<i>x</i>}, O₃, and OH. Journal of Geophysical Research, 1993, 98, 7149-7163.	3.3	620
10	Nitric acid cloud formation in the cold Antarctic stratosphere: a major cause for the springtime â€˜ozone holeâ€™. Nature, 1986, 324, 651-655.	13.7	617
11	The possible importance of CSO for the sulfate layer of the stratosphere. Geophysical Research Letters, 1976, 3, 73-76.	1.5	562
12	Estimates on the production of CO and H₂ from the oxidation of hydrocarbon emissions from vegetation. Geophysical Research Letters, 1978, 5, 679-682.	1.5	357
13	How Long Have We Been in the Anthropocene Era?. Climatic Change, 2003, 61, 251-257.	1.7	341
14	Biomass burning as a source of formaldehyde, acetaldehyde, methanol, acetone, acetonitrile, and hydrogen cyanide. Geophysical Research Letters, 1999, 26, 1161-1164.	1.5	313
15	Importance of biomass burning in the atmospheric budgets of nitrogen-containing gases. Nature, 1990, 346, 552-554.	13.7	304
16	Dryland photoautotrophic soil surface communities endangered by global change. Nature Geoscience, 2018, 11, 185-189.	5.4	302
17	The origin of ozone in the troposphere. Nature, 1978, 274, 855-858.	13.7	278
18	A twoâ€dimensional photochemical model of the atmosphere: 2. The tropospheric budgets of the anthropogenic chlorocarbons CO, CH₄, CH₃Cl and the effect of various NO_{<i>x</i>} sources on tropospheric ozone. Journal of Geophysical Research, 1983, 88, 6641-6661.	3.3	270

#	ARTICLE	IF	CITATIONS
19	Methane's sinks and sources. Nature, 1991, 350, 380-381.	13.7	263
20	Exploring the geoengineering of climate using stratospheric sulfate aerosols: The role of particle size. Geophysical Research Letters, 2008, 35, .	1.5	173
21	Freezing of HNO3/H2SO4/H2O Solutions at Stratospheric Temperatures:â€‰ Nucleation Statistics and Experiments. Journal of Physical Chemistry A, 1997, 101, 1117-1133.	1.1	167
22	Biological soil crusts accelerate the nitrogen cycle through large NO and HONO emissions in drylands. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15384-15389.	3.3	153
23	Tropospheric Ozone: An Overview. , 1988, , 3-32.		152
24	Modeling halogen chemistry in the marine boundary layer 1. Cloud-free MBL. Journal of Geophysical Research, 2002, 107, ACH 9-1-ACH 9-16.	3.3	151
25	Human-activity-enhanced formation of organic aerosols by biogenic hydrocarbon oxidation. Journal of Geophysical Research, 2000, 105, 9243-9354.	3.3	121
26	Title is missing!. Journal of Atmospheric Chemistry, 2000, 37, 81-112.	1.4	95
27	Molecular nitrogen emissions from denitrification during biomass burning. Nature, 1991, 351, 135-137.	13.7	94
28	A twoâ€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
29	Modeling halogen chemistry in the marine boundary layer 2. Interactions with sulfur and the cloud-covered MBL. Journal of Geophysical Research, 2002, 107, ACH 2-1-ACH 2-12.	3.3	91
30	Organic trace gas measurements by PTR-MS during INDOEX 1999. Journal of Geophysical Research, 2002, 107, INX2 23-1.	3.3	89
31	Emissions of major gaseous and particulate species during experimental burns of southern African biomass. Journal of Geophysical Research, 2006, 111, .	3.3	84
32	Introductory lecture. Overview of tropospheric chemistry: developments during the past quarter century and a look ahead. Faraday Discussions, 1995, 100, 1.	1.6	76
33	Kinetics and Products of the Reactions BrO + DMS and Br + DMS at 298 K. Journal of Physical Chemistry A, 1999, 103, 7199-7209.	1.1	57
34	The Atmosphere After a Nuclear War: Twilight at Noon. SpringerBriefs on Pioneers in Science and Practice, 2016, , 125-152.	0.2	47
35	A large 13 CO deficit in the lower Antarctic stratosphere due to â€œOzone Holeâ€• Chemistry: Part I, Observations. Geophysical Research Letters, 1996, 23, 2125-2128.	1.5	37
36	Air mass classification during the INDOEX R/VRonald Browncruise using measurements of nonmethane hydrocarbons, CH4, CO2, CO,14CO, and Î´18O(CO). Journal of Geophysical Research, 2002, 107, INX2 20-1.	3.3	36

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37	Learning about ozone depletion. Climatic Change, 2008, 89, 143-154.	1.7	35
38	Was breaking the taboo on research on climate engineering via albedo modification a moral hazard, or a moral imperative?. Earth's Future, 2017, 5, 136-143.	2.4	33
39	Acid rain at the K/T boundary. Nature, 1987, 330, 108-109.	13.7	32
40	The Parasol Effect on Climate. Science, 2003, 302, 1679-1681.	6.0	30
41	Perspectives on our planet in the Anthropocene. Environmental Chemistry, 2013, 10, 269.	0.7	30
42	Megacity development and the demise of coastal coral communities: Evidence from coral skeleton Î´¹⁵N records in the Pearl River estuary. Global Change Biology, 2020, 26, 1338-1353.	4.2	30
43	A Large 13 CO deficit in the lower Antarctic stratosphere due to â€œozone holeâ€•chemistry: Part II, Modeling. Geophysical Research Letters, 1996, 23, 2129-2132.	1.5	24
44	Production of boundary layer ozone from tropical American Savannah biomass burning emissions. Atmospheric Environment, 1999, 33, 4969-4975.	1.9	22
45	Budgets of fixed nitrogen in the Orinoco Savannah Region: Role of pyrodenitrification. Global Biogeochemical Cycles, 1998, 12, 653-666.	1.9	21
46	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
47	Atmospheric Chemistry and Climate in the Anthropocene / Chemia Atmosferyczna I Klimat W Antropocenie. Chemistry, Didactics, Ecology, Metrology, 2014, 19, 9-28.	0.1	13
48	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
49	Biomass Burning in the Tropics: Impact on Atmospheric Chemistry and Biogeochemical Cycles. SpringerBriefs on Pioneers in Science and Practice, 2016, , 165-188.	0.2	6
50	Mein Leben mit O₃, NO_x und anderen YZO_xâ€Verbindungen (Nobelâ€Vortrag). Angewandte Chemie, 1996, 108, 1878-1898.	1.6	5
51	A late change to the programme. Nature, 2004, 429, 349-349.	13.7	2
52	The Emission of Sulfur and Nitrogen to the Remote Atmosphere Working-Group Report. , 1985, , 55-63.		2
53	Comment on â€œCloud condensation nuclei in the Amazon Basin: â€œMarineâ€•conditions over a continent?â€• by G. C. Roberts et al.. Geophysical Research Letters, 2003, 30, .	1.5	0
54	George C. Reid (1929â€"2011). Eos, 2011, 92, 307-307.	0.1	0

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55	Globale Aspekte der atmosphÃrischen Chemie: NatÃ¼rliche und anthropogene EinflÃ¼sse. , 1986, , 41-72.		0