

Joel S Levine

List of Publications by Year in descending order

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68
papers

3,142
citations

147566

31
h-index

155451

55
g-index

68
all docs

68
docs citations

68
times ranked

2133
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative Rates of Nitric Oxide and Nitrous Oxide Production by Nitrifiers, Denitrifiers, and Nitrate Respirers. Applied and Environmental Microbiology, 1986, 51, 938-945.	1.4	328
2	Seasonal distribution of African savanna fires. Nature, 1992, 359, 812-815.	13.7	251
3	Satellite analysis of the severe 1987 forest fires in northern China and southeastern Siberia. Journal of Geophysical Research, 1994, 99, 18627.	3.3	212
4	A DRIVER FOR GLOBAL CHANGE. Environmental Science & Technology, 1995, 29, 120A-125A.	4.6	160
5	Simultaneous field measurements of biogenic emissions of nitric oxide and nitrous oxide. Journal of Geophysical Research, 1987, 92, 965-976.	3.3	137
6	The 1997 fires in Kalimantan and Sumatra, Indonesia: Gaseous and particulate emissions. Geophysical Research Letters, 1999, 26, 815-818.	1.5	130
7	Enhanced biogenic emissions of nitric oxide and nitrous oxide following surface biomass burning. Journal of Geophysical Research, 1988, 93, 3893-3898.	3.3	105
8	Concentration of methane in the troposphere deduced from 1951 infrared solar spectra. Nature, 1985, 318, 245-249.	13.7	100
9	Biogenic soil emissions of nitric oxide (NO) and nitrous oxide (N ₂ O) from savannas in South Africa: The impact of wetting and burning. Journal of Geophysical Research, 1996, 101, 23689-23697.	3.3	92
10	The photochemistry of methane and carbon monoxide in the troposphere in 1950 and 1985. Nature, 1985, 318, 254-257.	13.7	88
11	Simultaneous measurements of NO _x , NO, and O ₃ production in a laboratory discharge: Atmospheric implications. Geophysical Research Letters, 1981, 8, 357-360.	1.5	81
12	Free tropospheric carbon monoxide concentrations in 1950 and 1951 deduced from infrared total column amount measurements. Nature, 1985, 318, 250-254.	13.7	76
13	The prebiological paleoatmosphere: Stability and composition. Origins of Life and Evolution of Biospheres, 1982, 12, 245-259.	0.6	75
14	Trace gas emissions from chaparral and boreal forest fires. Journal of Geophysical Research, 1989, 94, 2255-2259.	3.3	67
15	The effects of fire on biogenic soil emissions of nitric oxide and nitrous oxide. Global Biogeochemical Cycles, 1988, 2, 445-449.	1.9	64
16	Gaseous emissions from Canadian boreal forest fires. Atmospheric Environment Part A General Topics, 1990, 24, 1653-1659.	1.3	60
17	The evolution and variability of atmospheric ozone over geological time. Icarus, 1979, 39, 295-309.	1.1	59
18	Source compositions of trace gases released during African savanna fires. Journal of Geophysical Research, 1996, 101, 23597-23602.	3.3	59

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19	Production of nitric oxide by lightning on Venus. <i>Geophysical Research Letters</i> , 1982, 9, 893-896.	1.5	56
20	Trace gas emissions from a mid-latitude prescribed chaparral fire. <i>Journal of Geophysical Research</i> , 1988, 93, 1653-1658.	3.3	55
21	Tropospheric sources of NO _x : Lightning and biology. <i>Atmospheric Environment</i> , 1984, 18, 1797-1804.	1.1	51
22	Solar radiation incident on Mars and the outer planets: Latitudinal, seasonal, and atmospheric effects. <i>Icarus</i> , 1977, 31, 136-145.	1.1	47
23	The oxidation of isoprene in the troposphere: Mechanism and model calculations. <i>Atmospheric Environment</i> , 1984, 18, 2723-2744.	1.1	47
24	Evaluation of a technique for satellite-derived area estimation of forest fires. <i>Journal of Geophysical Research</i> , 1992, 97, 3805-3814.	3.3	47
25	The vertical distribution of tropospheric ammonia. <i>Geophysical Research Letters</i> , 1980, 7, 317-320.	1.5	43
26	N ₂ O and CO production by electric discharge: Atmospheric implications. <i>Geophysical Research Letters</i> , 1979, 6, 557-559.	1.5	42
27	The photochemistry of the paleoatmosphere. <i>Journal of Molecular Evolution</i> , 1982, 18, 161-172.	0.8	41
28	Cloud pumping in a one-dimensional photochemical model. <i>Journal of Geophysical Research</i> , 1988, 93, 15941-15954.	3.3	40
29	Trace gas emissions from burning Florida wetlands. <i>Journal of Geophysical Research</i> , 1990, 95, 1865-1870.	3.3	40
30	The photochemistry of anthropogenic nonmethane hydrocarbons in the troposphere. <i>Journal of Geophysical Research</i> , 1983, 88, 6683-6695.	3.3	38
31	The effects of fire on biogenic emissions of methane and nitric oxide from wetlands. <i>Journal of Geophysical Research</i> , 1990, 95, 1853-1864.	3.3	36
32	The Photochemistry of the Early Atmosphere. , 1985, , 3-38.		35
33	Aircraft measurements of ammonia and nitric acid in the lower troposphere. <i>Geophysical Research Letters</i> , 1985, 12, 401-404.	1.5	29
34	Particulate emissions from a mid-latitude prescribed chaparral fire. <i>Journal of Geophysical Research</i> , 1988, 93, 5207-5212.	3.3	29
35	Evidence for a decline in the atmospheric accumulation rate of CHClF ₂ (CFC-22). <i>Nature</i> , 1989, 337, 535-537.	13.7	27
36	Global Biomass Burning: A Case Study of the Gaseous and Particulate Emissions Released to the Atmosphere During the 1997 Fires in Kalimantan and Sumatra, Indonesia. <i>Advances in Global Change Research</i> , 2000, , 15-31.	1.6	25

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37	A new estimate of volatile outgassing on Mars. <i>Icarus</i> , 1976, 28, 165-169.	1.1	24
38	Kuwaiti oil fires: Compositions of source smoke. <i>Journal of Geophysical Research</i> , 1992, 97, 14521-14525.	3.3	24
39	Boreal Forest Fire Emissions and the Chemistry of the Atmosphere. <i>Ecological Studies</i> , 2000, , 31-48.	0.4	20
40	Ozone, ultraviolet flux and temperature of the paleoatmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1980, 10, 199-213.	0.6	19
41	In situ aircraft measurements of enhanced levels of N ₂ O associated with thunderstorm lightning. <i>Nature</i> , 1983, 303, 312-314.	13.7	18
42	The effect of paleoatmospheric ozone on surface temperature. <i>Icarus</i> , 1979, 39, 310-314.	1.1	16
43	The global troposphere: Biogeochemical cycles, chemistry, and remote sensing. <i>Environmental Monitoring and Assessment</i> , 1982, 1, 263-306.	1.3	16
44	The effects of isotropic multiple scattering and surface albedo on the photochemistry of the troposphere. <i>Atmospheric Environment</i> , 1982, 16, 1373-1380.	1.1	15
45	Identification and measurement of atmospheric ethane (C ₂ H ₆) from a 1951 infrared solar spectrum. <i>Applied Optics</i> , 1986, 25, 4522.	2.1	13
46	Argon in the Martian atmosphere. <i>Geophysical Research Letters</i> , 1974, 1, 285-287.	1.5	12
47	The photochemistry of biogenic gases in the early and present atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1985, 15, 299-318.	0.8	12
48	Burning trees and bridges. <i>Nature</i> , 1990, 346, 511-512.	13.7	12
49	Trace gas emissions from tropical biomass fires: Yucatan Peninsula, Mexico. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 1903-1907.	1.3	11
50	The Ashen Light: An auroral phenomenon on Venus. <i>Planetary and Space Science</i> , 1969, 17, 1081-1087.	0.9	10
51	Photochemistry in planetary atmospheres. <i>Eos</i> , 1981, 62, 1177.	0.1	8
52	Atmospheric Ammonia: Measurements and Modeling. <i>AIAA Journal</i> , 1982, 20, 88-95.	1.5	7
53	Comets and the Photochemistry of the Paleoatmosphere. , 1981, , 161-190.		7
54	THE EVOLUTION OF H ₂ O AND CO ₂ ON EARTH AND MARS. , 1978, , 165-182.		5

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55	Surface solar ultraviolet radiation for paleoatmospheric levels of oxygen and ozone. <i>Origins of Life and Evolution of Biospheres</i> , 1980, 10, 313-323.	0.6	4
56	Vertical distributions of molecular hydrogen off the Eastern and Gulf Coasts of the United States. <i>Journal of Geophysical Research</i> , 1986, 91, 14561-14567.	3.3	3
57	<title>Monitoring wildfires using an autonomous aerial system (AAS)</title>. , 2004, , .		3
58	On the occurrence of the Ashen Light on Venus. <i>Planetary and Space Science</i> , 1968, 16, 1417-1418.	0.9	2
59	Correction to "The 1997 fires in Kalimantan and Sumatra, Indonesia: Gaseous and particulate emissions". <i>Geophysical Research Letters</i> , 1999, 26, 2407-2407.	1.5	2
60	Measurements from an aerial vehicle: a new tool for planetary exploration. , 2004, , .		2
61	TROPOSPHERIC SOURCES OF NO _x : LIGHTNING AND BIOLOGY. , 1984, , 1797-1804.		2
62	Fluorescence detection of organic molecules in the Jovian atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1975, 6, 395-399.	0.6	1
63	Nitrogen fixation by lightning activity in a thunderstorm. <i>Atmospheric Environment</i> , 1984, 18, 2277-2278.	1.1	1
64	Day and night profiles of tropospheric nitrous oxide. <i>Journal of Geophysical Research</i> , 1986, 91, 11911-11914.	3.3	1
65	Oxygen in the early atmosphere. <i>Origins of Life and Evolution of Biospheres</i> , 1986, 16, 203-204.	0.8	0
66	The early atmospheres of earth and Mars. <i>Origins of Life and Evolution of Biospheres</i> , 1986, 16, 218-219.	0.8	0
67	Ozone, Climate, and Global Atmospheric Change. <i>Science Activities</i> , 1992, 29, 10-16.	0.4	0
68	Ozone, Ultraviolet Flux and Temperature of the Paleoatmosphere. , 1980, , 105-119.		0