

Stephen G Warren

List of Publications by Year in descending order

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61
papers

15,092
citations

81900

39
h-index

123424

61
g-index

62
all docs

62
docs citations

62
times ranked

10614
citing authors

#	ARTICLE	IF	CITATIONS
1	Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate. <i>Nature</i> , 1987, 326, 655-661.	27.8	3,811
2	Optical constants of ice from the ultraviolet to the microwave. <i>Applied Optics</i> , 1984, 23, 1206.	2.1	1,367
3	A Model for the Spectral Albedo of Snow. I: Pure Snow. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 2712-2733.	1.7	1,275
4	Optical properties of snow. <i>Reviews of Geophysics</i> , 1982, 20, 67-89.	23.0	1,080
5	A Model for the Spectral Albedo of Snow. II: Snow Containing Atmospheric Aerosols. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 2734-2745.	1.7	1,048
6	Optical constants of ice from the ultraviolet to the microwave: A revised compilation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	834
7	Snow Depth on Arctic Sea Ice. <i>Journal of Climate</i> , 1999, 12, 1814-1829.	3.2	429
8	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017, 3, e1600983.	10.3	424
9	Reflection of solar radiation by the Antarctic snow surface at ultraviolet, visible, and near-infrared wavelengths. <i>Journal of Geophysical Research</i> , 1994, 99, 18669.	3.3	409
10	Representation of a nonspherical ice particle by a collection of independent spheres for scattering and absorption of radiation. <i>Journal of Geophysical Research</i> , 1999, 104, 31697-31709.	3.3	307
11	Snow on Antarctic sea ice. <i>Reviews of Geophysics</i> , 2001, 39, 413-445.	23.0	287
12	The Changing Face of Arctic Snow Cover: A Synthesis of Observed and Projected Changes. <i>Ambio</i> , 2011, 40, 17-31.	5.5	264
13	Effect of surface roughness on bidirectional reflectance of Antarctic snow. <i>Journal of Geophysical Research</i> , 1998, 103, 25789-25807.	3.3	226
14	Light-absorbing particles in snow and ice: Measurement and modeling of climatic and hydrological impact. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 64-91.	4.3	223
15	Effect of viewing angle on the infrared brightness temperature of snow. <i>Water Resources Research</i> , 1982, 18, 1424-1434.	4.2	210
16	Solar-heating rates and temperature profiles in Antarctic snow and ice. <i>Journal of Glaciology</i> , 1993, 39, 99-110.	2.2	190
17	Dirty snow after nuclear war. <i>Nature</i> , 1985, 313, 467-470.	27.8	173
18	Surface Albedo of the Antarctic Sea Ice Zone. <i>Journal of Climate</i> , 2005, 18, 3606-3622.	3.2	170

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19	Visible and near-ultraviolet absorption spectrum of ice from transmission of solar radiation into snow. <i>Applied Optics</i> , 2006, 45, 5320.	2.1	154
20	Soot in the atmosphere and snow surface of Antarctica. <i>Journal of Geophysical Research</i> , 1990, 95, 1811-1816.	3.3	150
21	Source Attribution of Black Carbon in Arctic Snow. <i>Environmental Science & Technology</i> , 2009, 43, 4016-4021.	10.0	142
22	Dust and Black Carbon in Seasonal Snow Across Northern China. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 175-181.	3.3	132
23	Spectral bidirectional reflectance of Antarctic snow: Measurements and parameterization. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	125
24	Snowball Earth: Ice thickness on the tropical ocean. <i>Journal of Geophysical Research</i> , 2002, 107, 31-1.	3.3	123
25	Sources of light-absorbing aerosol in arctic snow and their seasonal variation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10923-10938.	4.9	110
26	Representation of a nonspherical ice particle by a collection of independent spheres for scattering and absorption of radiation: 2. Hexagonal columns and plates. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	95
27	Optical properties of ice and snow. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180161.	3.4	91
28	Aerosol light absorption measurement techniques: Analysis and intercomparisons. <i>Atmospheric Environment</i> , 1967, 21, 1455-1465.	1.0	88
29	Can black carbon in snow be detected by remote sensing?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 779-786.	3.3	87
30	A controlled snowmaking experiment testing the relation between black carbon content and reduction of snow albedo. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	83
31	Black carbon and other light-absorbing particles in snow of central North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,807.	3.3	83
32	Light absorption from particulate impurities in snow and ice determined by spectrophotometric analysis of filters. <i>Applied Optics</i> , 2011, 50, 2037.	2.1	82
33	Parameterizations for narrowband and broadband albedo of pure snow and snow containing mineral dust and black carbon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5446-5468.	3.3	82
34	Effect of Snow Grain Shape on Snow Albedo. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3573-3583.	1.7	74
35	Theory of the optical properties of lake ice. <i>Journal of Geophysical Research</i> , 1988, 93, 8403-8414.	3.3	66
36	Representation of a nonspherical ice particle by a collection of independent spheres for scattering and absorption of radiation: 3. Hollow columns and plates. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	65

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37	Effects of bubbles, cracks, and volcanic tephra on the spectral albedo of bare ice near the Transantarctic Mountains: Implications for sea glaciers on Snowball Earth. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1658-1676.	2.8	52
38	Black carbon in seasonal snow across northern Xinjiang in northwestern China. <i>Environmental Research Letters</i> , 2012, 7, 044002.	5.2	50
39	Mode of Formation of "Ablation Hollows" Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , 1987, 33, 135-139.	2.2	46
40	Mode of Formation of "Ablation Hollows" Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , 1987, 33, 135-139.	2.2	41
41	Hydrohalite in cold sea ice: Laboratory observations of single crystals, surface accumulations, and migration rates under a temperature gradient, with application to "Snowball Earth". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
42	Filtering of air through snow as a mechanism for aerosol deposition to the Antarctic ice sheet. <i>Journal of Geophysical Research</i> , 1996, 101, 18729-18743.	3.3	38
43	East Antarctic sea ice in spring: spectral albedo of snow, nilas, frost flowers and slush, and light-absorbing impurities in snow. <i>Annals of Glaciology</i> , 2015, 56, 53-64.	1.4	30
44	Can human populations be stabilized?. <i>Earth's Future</i> , 2015, 3, 82-94.	6.3	28
45	Light-Absorbing Impurities in Snow: A Personal and Historical Account. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	28
46	Comment on "Snowball Earth: A thin-ice solution with flowing sea glaciers" by David Pollard and James F. Kasting. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	27
47	An explanation for the effect of clouds over snow on the top-of-atmosphere bidirectional reflectance. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	25
48	Refugium for surface life on Snowball Earth in a nearly-enclosed sea? A first simple model for sea-glacier invasion. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	22
49	Green icebergs formed by freezing of organic-rich seawater to the base of Antarctic ice shelves. <i>Journal of Geophysical Research</i> , 1993, 98, 6921-6928.	3.3	19
50	Migration of air bubbles in ice under a temperature gradient, with application to "Snowball Earth". <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
51	Salt precipitation in sea ice and its effect on albedo, with application to Snowball Earth. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7400-7412.	2.6	13
52	The spectral albedo of sea ice and salt crusts on the tropical ocean of Snowball Earth: II. Optical modeling. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5217-5230.	2.6	12
53	Green Icebergs Revisited. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 925-938.	2.6	11
54	Expeditions to the Russian Arctic to Survey Black Carbon in Snow. <i>Eos</i> , 2009, 90, 386-387.	0.1	9

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55	The spectral albedo of sea ice and salt crusts on the tropical ocean of Snowball Earth: 1. Laboratory measurements. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4966-4979.	2.6	7
56	Refugium for surface life on Snowball Earth in a nearly enclosed sea? A numerical solution for sea-glacier invasion through a narrow strait. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2679-2690.	2.6	6
57	“Albedo dome”: a method for measuring spectral flux-reflectance in a laboratory for media with long optical paths. <i>Applied Optics</i> , 2015, 54, 5260.	2.1	5
58	Spectral Albedo of Dusty Martian H ₂ O Snow and Ice. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006910.	3.6	5
59	Did agriculture cause the population explosion?. <i>Nature</i> , 1999, 397, 101-101.	27.8	4
60	Reply to comment by John Colarusso on “Can human populations be stabilized?”. <i>Earth's Future</i> , 2016, 4, 18-19.	6.3	2
61	Fertile grounds for a lively debate. <i>Nature</i> , 1999, 398, 556-556.	27.8	1