

Stephen G Warren

List of Publications by Citations

Source: <https://exaly.com/author-pdf/205323/stephen-g-warren-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

12,385
citations

39
h-index

62
g-index

62
ext. papers

13,720
ext. citations

9
avg, IF

6.39
L-index

#	Paper	IF	Citations
61	Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate. <i>Nature</i> , 1987 , 326, 655-661	50.4	3209
60	Optical constants of ice from the ultraviolet to the microwave. <i>Applied Optics</i> , 1984 , 23, 1206	1.7	1180
59	A Model for the Spectral Albedo of Snow. I: Pure Snow. <i>Journals of the Atmospheric Sciences</i> , 1980 , 37, 2712-2733	2.1	1019
58	Optical properties of snow. <i>Reviews of Geophysics</i> , 1982 , 20, 67	23.1	916
57	A Model for the Spectral Albedo of Snow. II: Snow Containing Atmospheric Aerosols. <i>Journals of the Atmospheric Sciences</i> , 1980 , 37, 2734-2745	2.1	826
56	Optical constants of ice from the ultraviolet to the microwave: A revised compilation. <i>Journal of Geophysical Research</i> , 2008 , 113,		652
55	Snow Depth on Arctic Sea Ice. <i>Journal of Climate</i> , 1999 , 12, 1814-1829	4.4	367
54	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		336
53	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		262
52	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , 2017 , 3, e1600983	21.3	261
51	Snow on Antarctic sea ice. <i>Reviews of Geophysics</i> , 2001 , 39, 413-445	23.1	223
50	The Changing Face of Arctic Snow Cover: A Synthesis of Observed and Projected Changes. <i>Ambio</i> , 2011 , 40, 17-31	6.5	201
49	Effect of surface roughness on bidirectional reflectance of Antarctic snow. <i>Journal of Geophysical Research</i> , 1998 , 103, 25789-25807		177
48	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	2.9	168
47	Effect of viewing angle on the infrared brightness temperature of snow. <i>Water Resources Research</i> , 1982 , 18, 1424-1434	5.4	168
46	Solar-heating rates and temperature profiles in Antarctic snow and ice. <i>Journal of Glaciology</i> , 1993 , 39, 99-110	3.4	165
45	Dirty snow after nuclear war. <i>Nature</i> , 1985 , 313, 467-470	50.4	152

44	Surface Albedo of the Antarctic Sea Ice Zone. <i>Journal of Climate</i> , 2005 , 18, 3606-3622	4.4	139
43	Visible and near-ultraviolet absorption spectrum of ice from transmission of solar radiation into snow. <i>Applied Optics</i> , 2006 , 45, 5320-34	1.7	129
42	Soot in the atmosphere and snow surface of Antarctica. <i>Journal of Geophysical Research</i> , 1990 , 95, 1811		128
41	Source attribution of black carbon in Arctic snow. <i>Environmental Science & Technology</i> , 2009 , 43, 4016-21	10.3	121
40	Dust and Black Carbon in Seasonal Snow Across Northern China. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, 175-181	6.1	114
39	Snowball Earth: Ice thickness on the tropical ocean. <i>Journal of Geophysical Research</i> , 2002 , 107, 31-1		107
38	Spectral bidirectional reflectance of Antarctic snow: Measurements and parameterization. <i>Journal of Geophysical Research</i> , 2006 , 111,		103
37	Sources of light-absorbing aerosol in arctic snow and their seasonal variation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10923-10938	6.8	91
36	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,		82
35	Aerosol light absorption measurement techniques: Analysis and intercomparisons. <i>Atmospheric Environment</i> , 1967 , 21, 1455-1465		82
34	A controlled snowmaking experiment testing the relation between black carbon content and reduction of snow albedo. <i>Journal of Geophysical Research</i> , 2011 , 116,		74
33	Light absorption from particulate impurities in snow and ice determined by spectrophotometric analysis of filters. <i>Applied Optics</i> , 2011 , 50, 2037-48	0.2	74
32	Can black carbon in snow be detected by remote sensing?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 779-786	4.4	72
31	Black carbon and other light-absorbing particles in snow of central North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,807-12,831	4.4	67
30	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,		59
29	Theory of the optical properties of lake ice. <i>Journal of Geophysical Research</i> , 1988 , 93, 8403		58
28	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	4.4	57
27	Effect of Snow Grain Shape on Snow Albedo. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 3573-3583	2.1	50

26	Optical properties of ice and snow. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180161	3	47
25	Black carbon in seasonal snow across northern Xinjiang in northwestern China. <i>Environmental Research Letters</i> , 2012 , 7, 044002	6.2	47
24	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	3.8	42
23	Mode of Formation of Ablation Hollows Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , 1987 , 33, 135-139	3.4	39
22	Mode of Formation of Ablation Hollows Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , 1987 , 33, 135-139	3.4	37
21	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,		35
20	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		34
19	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,		27
18	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	2.5	25
17	Can human populations be stabilized?. <i>Earth's Future</i> , 2015 , 3, 82-94	7.9	21
16	An explanation for the effect of clouds over snow on the top-of-atmosphere bidirectional reflectance. <i>Journal of Geophysical Research</i> , 2007 , 112,		20
15	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	4.9	19
14	Light-Absorbing Impurities in Snow: A Personal and Historical Account. <i>Frontiers in Earth Science</i> , 2019 , 6,	3.5	18
13	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		16
12	Migration of air bubbles in ice under a temperature gradient, with application to Snowball Earth. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
11	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	3.3	11
10	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	3.3	10
9	Expeditions to the Russian Arctic to Survey Black Carbon in Snow. <i>Eos</i> , 2009 , 90, 386-387	1.5	8

8	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	3.3	6
7	Green Icebergs Revisited. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 925-938	3.3	6
6	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	3.3	5
5	"Albedo dome": a method for measuring spectral flux-reflectance in a laboratory for media with long optical paths. <i>Applied Optics</i> , 2015 , 54, 5260-9	0.2	4
4	Did agriculture cause the population explosion?. <i>Nature</i> , 1999 , 397, 101-101	50.4	4
3	Reply to comment by John Colarusso on "Can human populations be stabilized?". <i>Earth's Future</i> , 2016 , 4, 18-19	7.9	2
2	Fertile grounds for a lively debate. <i>Nature</i> , 1999 , 398, 556	50.4	1
1	Spectral Albedo of Dusty Martian H ₂ O Snow and Ice. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2021JE006910	4.1	1