

# Stephen G Warren

## List of Publications by Year in Descending Order

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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	Spectral Albedo of Dusty Martian H <sub>2</sub> O Snow and Ice. <i>Journal of Geophysical Research E: Planets</i> , <b>2021</b> , 126, e2021JE006910	4.1	1
60	Optical properties of ice and snow. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180161	3	47
59	Light-Absorbing Impurities in Snow: A Personal and Historical Account. <i>Frontiers in Earth Science</i> , <b>2019</b> , 6,	3.5	18
58	Green Icebergs Revisited. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 925-938	3.3	6
57	Snowball Earth climate dynamics and Cryogenian geology-geobiology. <i>Science Advances</i> , <b>2017</b> , 3, e1600983	9.3	261
56	Effect of Snow Grain Shape on Snow Albedo. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 3573-3583	2.1	50
55	Reply to comment by John Colarusso on "Can human populations be stabilized?". <i>Earth's Future</i> , <b>2016</b> , 4, 18-19	7.9	2
54	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> , <b>2016</b> , 121, 4966-4979	3.3	6
53	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> , <b>2016</b> , 121, 5217-5230	3.3	11
52	Light-absorbing particles in snow and ice: Measurement and modeling of climatic and hydrological impact. <i>Advances in Atmospheric Sciences</i> , <b>2015</b> , 32, 64-91	2.9	168
51	"Albedo dome": a method for measuring spectral flux-reflectance in a laboratory for media with long optical paths. <i>Applied Optics</i> , <b>2015</b> , 54, 5260-9	0.2	4
50	Can human populations be stabilized?. <i>Earth's Future</i> , <b>2015</b> , 3, 82-94	7.9	21
49	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> , <b>2015</b> , 56, 53-64	2.5	25
48	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> , <b>2015</b> , 120, 5446-5468	4.4	57
47	Salt precipitation in sea ice and its effect on albedo, with application to Snowball Earth. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 7400-7412	3.3	10
46	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> , <b>2014</b> , 119, 2679-2690	3.3	5
45	Black carbon and other light-absorbing particles in snow of central North America. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 12,807-12,831	4.4	67

44	Can black carbon in snow be detected by remote sensing?. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 779-786	4.4	72
43	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> , <b>2013</b> , 118, 1658-1676	3.8	42
42	Black carbon in seasonal snow across northern Xinjiang in northwestern China. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 044002	6.2	47
41	A controlled snowmaking experiment testing the relation between black carbon content and reduction of snow albedo. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		74
40	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> , <b>2011</b> , 38, n/a-n/a	4.9	19
39	Light absorption from particulate impurities in snow and ice determined by spectrophotometric analysis of filters. <i>Applied Optics</i> , <b>2011</b> , 50, 2037-48	0.2	74
38	The Changing Face of Arctic Snow Cover: A Synthesis of Observed and Projected Changes. <i>Ambio</i> , <b>2011</b> , 40, 17-31	6.5	201
37	Dust and Black Carbon in Seasonal Snow Across Northern China. <i>Bulletin of the American Meteorological Society</i> , <b>2011</b> , 92, 175-181	6.1	114
36	Migration of air bubbles in ice under a temperature gradient, with application to Snowball Earth. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		11
35	Sources of light-absorbing aerosol in arctic snow and their seasonal variation. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10923-10938	6.8	91
34	Source attribution of black carbon in Arctic snow. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4016-21	10.3	121
33	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> , <b>2009</b> , 114,		35
32	Expeditions to the Russian Arctic to Survey Black Carbon in Snow. <i>Eos</i> , <b>2009</b> , 90, 386-387	1.5	8
31	Optical constants of ice from the ultraviolet to the microwave: A revised compilation. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		652
30	An explanation for the effect of clouds over snow on the top-of-atmosphere bidirectional reflectance. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		20
29	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> , <b>2006</b> , 111,		27
28	Spectral bidirectional reflectance of Antarctic snow: Measurements and parameterization. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		103
27	Visible and near-ultraviolet absorption spectrum of ice from transmission of solar radiation into snow. <i>Applied Optics</i> , <b>2006</b> , 45, 5320-34	1.7	129

26	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> , <b>2005</b> , 110,		59
25	Surface Albedo of the Antarctic Sea Ice Zone. <i>Journal of Climate</i> , <b>2005</b> , 18, 3606-3622	4.4	139
24	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> , <b>2003</b> , 108,		82
23	Snowball Earth: Ice thickness on the tropical ocean. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, 31-1		107
22	Snow on Antarctic sea ice. <i>Reviews of Geophysics</i> , <b>2001</b> , 39, 413-445	23.1	223
21	Snow Depth on Arctic Sea Ice. <i>Journal of Climate</i> , <b>1999</b> , 12, 1814-1829	4.4	367
20	Fertile grounds for a lively debate. <i>Nature</i> , <b>1999</b> , 398, 556	50.4	1
19	Did agriculture cause the population explosion?. <i>Nature</i> , <b>1999</b> , 397, 101-101	50.4	4
18	Representation of a nonspherical ice particle by a collection of independent spheres for scattering and absorption of radiation. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 31697-31709		262
17	Effect of surface roughness on bidirectional reflectance of Antarctic snow. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 25789-25807		177
16	Filtering of air through snow as a mechanism for aerosol deposition to the Antarctic ice sheet. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 18729-18743		34
15	Reflection of solar radiation by the Antarctic snow surface at ultraviolet, visible, and near-infrared wavelengths. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 18669		336
14	Green icebergs formed by freezing of organic-rich seawater to the base of Antarctic ice shelves. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 6921-6928		16
13	Solar-heating rates and temperature profiles in Antarctic snow and ice. <i>Journal of Glaciology</i> , <b>1993</b> , 39, 99-110	3.4	165
12	Soot in the atmosphere and snow surface of Antarctica. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 1811		128
11	Theory of the optical properties of lake ice. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 8403		58
10	Mode of Formation of Ablation Hollows Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , <b>1987</b> , 33, 135-139	3.4	39
9	Mode of Formation of Ablation Hollows Controlled by Dirt Content of Snow. <i>Journal of Glaciology</i> , <b>1987</b> , 33, 135-139	3.4	37

8	Oceanic phytoplankton, atmospheric sulphur, cloud albedo and climate. <i>Nature</i> , <b>1987</b> , 326, 655-661	50.4	3209
7	Dirty snow after nuclear war. <i>Nature</i> , <b>1985</b> , 313, 467-470	50.4	152
6	Optical constants of ice from the ultraviolet to the microwave. <i>Applied Optics</i> , <b>1984</b> , 23, 1206	1.7	1180
5	Optical properties of snow. <i>Reviews of Geophysics</i> , <b>1982</b> , 20, 67	23.1	916
4	Effect of viewing angle on the infrared brightness temperature of snow. <i>Water Resources Research</i> , <b>1982</b> , 18, 1424-1434	5.4	168
3	A Model for the Spectral Albedo of Snow. I: Pure Snow. <i>Journals of the Atmospheric Sciences</i> , <b>1980</b> , 37, 2712-2733	2.1	1019
2	A Model for the Spectral Albedo of Snow. II: Snow Containing Atmospheric Aerosols. <i>Journals of the Atmospheric Sciences</i> , <b>1980</b> , 37, 2734-2745	2.1	826
1	Aerosol light absorption measurement techniques: Analysis and intercomparisons. <i>Atmospheric Environment</i> , <b>1967</b> , 21, 1455-1465		82