

Josefino C Comiso

List of Publications by Year in descending order

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89
papers

11,063
citations

50170

46
h-index

60497

81
g-index

95
all docs

95
docs citations

95
times ranked

8939
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated decline in the Arctic sea ice cover. Geophysical Research Letters, 2008, 35, .	1.5	1,368
2	Large Decadal Decline of the Arctic Multiyear Ice Cover. Journal of Climate, 2012, 25, 1176-1193.	1.2	658
3	Warming of the Antarctic ice-sheet surface since the 1957 International Geophysical Year. Nature, 2009, 457, 459-462.	13.7	620
4	Arctic sea ice extents, areas, and trends, 1978-1996. Journal of Geophysical Research, 1999, 104, 20837-20856.	3.3	553
5	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. Geophysical Research Letters, 2009, 36, .	1.5	410
6	On the 2012 record low Arctic sea ice cover: Combined impact of preconditioning and an August storm. Geophysical Research Letters, 2013, 40, 1356-1361.	1.5	391
7	Passive microwave algorithms for sea ice concentration: A comparison of two techniques. Remote Sensing of Environment, 1997, 60, 357-384.	4.6	386
8	A rapidly declining perennial sea ice cover in the Arctic. Geophysical Research Letters, 2002, 29, 17-1-17-4.	1.5	369
9	Trends in the sea ice cover using enhanced and compatible AMSR-E, SSM/I, and SMMR data. Journal of Geophysical Research, 2008, 113, .	3.3	360
10	Circumpolar Arctic Tundra Vegetation Change Is Linked to Sea Ice Decline. Earth Interactions, 2010, 14, 1-20.	0.7	332
11	Variability of Antarctic sea ice 1979-1998. Journal of Geophysical Research, 2002, 107, 9-1.	3.3	325
12	Variability and Trends in Antarctic Surface Temperatures from In Situ and Satellite Infrared Measurements. Journal of Climate, 2000, 13, 1674-1696.	1.2	312
13	Warming Trends in the Arctic from Clear Sky Satellite Observations. Journal of Climate, 2003, 16, 3498-3510.	1.2	303
14	Recent radical shifts of atmospheric circulations and rapid changes in Arctic climate system. Geophysical Research Letters, 2008, 35, .	1.5	250
15	Climate trends in the Arctic as observed from space. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 389-409.	3.6	236
16	Climate Variability in the Amundsen and Bellingshausen Seas. Journal of Climate, 1997, 10, 697-709.	1.2	208
17	Spatial patterns of variability in Antarctic surface temperature: Connections to the Southern Hemisphere Annular Mode and the Southern Oscillation. Geophysical Research Letters, 2002, 29, 50-1-50-4.	1.5	204
18	Variability and trends in the Arctic sea ice cover: Results from different techniques. Journal of Geophysical Research: Oceans, 2017, 122, 6883-6900.	1.0	197

#	ARTICLE	IF	CITATIONS
19	The Southern Ocean ecosystem under multiple climate change stresses –an integrated circumpolar assessment. <i>Global Change Biology</i> , 2015, 21, 1434-1453.	4.2	190
20	Recent Declines in Warming and Vegetation Greening Trends over Pan-Arctic Tundra. <i>Remote Sensing</i> , 2013, 5, 4229-4254.	1.8	167
21	Abrupt decline in the Arctic winter sea ice cover. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	155
22	Positive Trend in the Antarctic Sea Ice Cover and Associated Changes in Surface Temperature. <i>Journal of Climate</i> , 2017, 30, 2251-2267.	1.2	143
23	Variability in the surface temperature and melt extent of the Greenland ice sheet from MODIS. <i>Geophysical Research Letters</i> , 2013, 40, 2114-2120.	1.5	136
24	Polynyas in the Southern Ocean. <i>Scientific American</i> , 1988, 258, 90-97.	1.0	135
25	Variability and trends in sea ice extent and ice production in the Ross Sea. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	133
26	Influence of sea ice on primary production in the Southern Ocean: A satellite perspective. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	128
27	Arctic warming signals from satellite observations. <i>Weather</i> , 2006, 61, 70-76.	0.6	121
28	Satellite-Observed Changes in the Arctic. <i>Physics Today</i> , 2004, 57, 38-44.	0.3	113
29	Passive microwave signatures of sea ice. <i>Geophysical Monograph Series</i> , 1992, , 47-71.	0.1	107
30	Surface and radiative characteristics of the summer Arctic sea ice cover from multisensor satellite observations. <i>Journal of Geophysical Research</i> , 1996, 101, 28397-28416.	3.3	94
31	Recent variability and trends of Antarctic near-surface temperature. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	94
32	Recent Climate Variability in Antarctica from Satellite-Derived Temperature Data. <i>Journal of Climate</i> , 2004, 17, 1569-1583.	1.2	91
33	A Possible Link between the Weddell Polynya and the Southern Annular Mode*. <i>Journal of Climate</i> , 2007, 20, 2558-2571.	1.2	86
34	The estimation of geophysical parameters using passive microwave algorithms. <i>Geophysical Monograph Series</i> , 1992, , 201-231.	0.1	83
35	Changing seasonality of panarctic tundra vegetation in relationship to climatic variables. <i>Environmental Research Letters</i> , 2017, 12, 055003.	2.2	81
36	Phytoplankton in the Beaufort and Chukchi Seas: Distribution, dynamics, and environmental forcing. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 3355-3368.	0.6	78

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37	Studies of Antarctic sea ice concentrations from satellite data and their applications. Journal of Geophysical Research, 2001, 106, 31361-31385.	3.3	75
38	Solve Antarctica's sea-ice puzzle. Nature, 2017, 547, 275-277.	13.7	69
39	Surface temperatures in the polar regions from Nimbus 7 temperature humidity infrared radiometer. Journal of Geophysical Research, 1994, 99, 5181.	3.3	68
40	Considerations for microwave remote sensing of thin sea ice. Geophysical Monograph Series, 1992, , 291-301.	0.1	63
41	Multifrequency Passive Microwave Observations of First-Year Sea Ice Grown in a Tank. IEEE Transactions on Geoscience and Remote Sensing, 1986, GE-24, 826-831.	2.7	60
42	The spatial coherence of interannual temperature variations in the Antarctic Peninsula. Geophysical Research Letters, 2003, 30, .	1.5	60
43	A Satellite-Derived Climate-Quality Data Record of the Clear-Sky Surface Temperature of the Greenland Ice Sheet. Journal of Climate, 2012, 25, 4785-4798.	1.2	60
44	Arctic Cloud Characteristics as Derived from MODIS, CALIPSO, and CloudSat. Journal of Climate, 2013, 26, 3285-3306.	1.2	60
45	Polar Oceans from Space. Atmospheric and Oceanographic Sciences Library, 2010, , .	0.1	54
46	The classification of Arctic sea ice types and the determination of surface temperature using advanced very high resolution radiometer data. Journal of Geophysical Research, 1994, 99, 5201.	3.3	52
47	Antarctic sea ice parameters from AMSR's data using two techniques and comparisons with sea ice from SSM/I. Journal of Geophysical Research, 2008, 113, .	3.3	50
48	Cosmonaut polynya in the Southern Ocean: Structure and variability. Journal of Geophysical Research, 1996, 101, 18297-18313.	3.3	49
49	Seasonal and interannual variability of the Odden ice tongue and a study of environmental effects. Journal of Geophysical Research, 2001, 106, 9093-9116.	3.3	46
50	Detection of change in the Arctic using satellite and in situ data. Journal of Geophysical Research, 2003, 108, .	3.3	46
51	Microwave remote sensing of the Southern Ocean ice cover. Geophysical Monograph Series, 1992, , 243-259.	0.1	43
52	Space-Based Observations for Understanding Changes in the Arctic's Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	9.0	39
53	Climate Drivers Linked to Changing Seasonality of Alaska Coastal Tundra Vegetation Productivity. Earth Interactions, 2015, 19, 1-29.	0.7	34
54	Arise (Antarctic Remote Ice Sensing Experiment) in the East 2003: validation of Satellite-derived Sea-ice data products. Annals of Glaciology, 2006, 44, 288-296.	2.8	33

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55	Satellite observed salinity distributions at high latitudes in the Northern Hemisphere: A comparison of four products. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7717-7736.	1.0	33
56	Cloud features detected by MODIS but not by CloudSat and CALIOP. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	32
57	Interannual Variability in Summer Sea Ice Minimum, Coastal Polynyas and Bottom Water Formation In the Weddell Sea. <i>Antarctic Research Series</i> , 2013, , 293-315.	0.2	30
58	Arctic sea ice parameters from AMSR-2 data using two techniques and comparisons with sea ice from SSM/I. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
59	Satellite-observed variability and trend in sea-ice extent, surface temperature, albedo and clouds in the Arctic. <i>Annals of Glaciology</i> , 2001, 33, 457-473.	2.8	27
60	Combination of laser and radar altimeter height measurements to estimate snow depth during the 2004 Antarctic AMSR-2 Sea Ice field campaign. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
61	A Multilayer Surface Temperature, Surface Albedo, and Water Vapor Product of Greenland from MODIS. <i>Remote Sensing</i> , 2018, 10, 555.	1.8	26
62	Ice-sheet elevation changes caused by variations of the firn compaction rate induced by satellite-observed temperature variations (1982-2003). <i>Annals of Glaciology</i> , 2007, 46, 8-13.	2.8	23
63	Correlation and trend studies of the sea-ice cover and surface temperatures in the Arctic. <i>Annals of Glaciology</i> , 2002, 34, 420-428.	2.8	22
64	In situ and satellite surface temperature records in Antarctica. <i>Annals of Glaciology</i> , 2002, 34, 113-120.	2.8	20
65	Cumulative Effects of Rapid Land-Cover and Land-Use Changes on the Yamal Peninsula, Russia. , 2010, , 207-236.		15
66	Synoptic storms and the development of the 1997 warming and freshening event in the Beaufort Sea. <i>Geophysical Research Letters</i> , 2001, 28, 799-802.	1.5	14
67	Climate drivers of Arctic tundra variability and change using an indicators framework. <i>Environmental Research Letters</i> , 2021, 16, 055019.	2.2	14
68	Recent Changes in Arctic Vegetation: Satellite Observations and Simulation Model Predictions. , 2010, , 9-36.		14
69	The ice thickness distribution inferred using remote sensing techniques. <i>Geophysical Monograph Series</i> , 1992, , 375-383.	0.1	12
70	Two modes of appearance of the Odden Ice Tongue in the Greenland Sea. <i>Geophysical Research Letters</i> , 1999, 26, 2497-2500.	1.5	12
71	Sea Surface Salinity Distribution in the Southern Ocean as Observed From Space. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3186-3205.	1.0	10
72	Satellite remote sensing of the Arctic Ocean and adjacent seas. <i>Coastal and Estuarine Studies</i> , 1995, , 1-50.	0.4	7

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73	Impacts of the variability of Second-year ice types on the decline of the Arctic perennial Sea-ice cover. Annals of Glaciology, 2006, 44, 375-382.	2.8	5
74	An unexpected seasonal variability of salinity in the Beaufort Sea upper layer in 1996â€“1998. Journal of Geophysical Research, 2007, 112, .	3.3	5
75	Satellite Remote Sensing Techniques. Atmospheric and Oceanographic Sciences Library, 2010, , 73-111.	0.1	5
76	Microwave remote sensing of polynyas. Geophysical Monograph Series, 1992, , 303-311.	0.1	4
77	Ice Surface Temperatures in the Arctic Region. , 2019, , 151-184.		4
78	Sea Ice Concentration and Extent. Encyclopedia of Earth Sciences Series, 2014, , 727-743.	0.1	3
79	Characteristics and Variability of the Sea Ice Cover. Atmospheric and Oceanographic Sciences Library, 2010, , 295-363.	0.1	3
80	Introduction to special section on Largeâ€Scale Characteristics of the Sea Ice Cover from AMSRâ€E and Other Satellite Sensors. Journal of Geophysical Research, 2008, 113, .	3.3	2
81	Surface Temperature Interrelationships. , 2019, , 185-202.		2
82	Variability of Surface Temperature and Albedo. Atmospheric and Oceanographic Sciences Library, 2010, , 223-294.	0.1	2
83	VALIDATION OF AMSR-E ICE CONCENTRATION & THICKNESS IN THE OKHOTSK SEA. Gayana, 2004, 68, .	0.0	1
84	Geophysical Parameters and Algorithms for High Latitude Applications. Atmospheric and Oceanographic Sciences Library, 2010, , 113-180.	0.1	1
85	Variability of Surface Pressure, Winds, and Clouds. Atmospheric and Oceanographic Sciences Library, 2010, , 181-221.	0.1	1
86	THE POLAR ICE COVER - HOW IT IS CHANGING. Gayana, 2004, 68, .	0.0	0
87	Decadal Changes, Correlations, and Trends. Atmospheric and Oceanographic Sciences Library, 2010, , 449-495.	0.1	0
88	Variability of Phytoplankton Pigment Concentrations and Primary Productivity. Atmospheric and Oceanographic Sciences Library, 2010, , 403-447.	0.1	0
89	Polynyas and Other Polar Phenomena. Atmospheric and Oceanographic Sciences Library, 2010, , 365-402.	0.1	0