Mary R Albert

List of Publications by Year
in descending order

42 papers	1,971 citations	304368 22 h-index	329751 37 g-index
46 all docs	46 docs citations	46 times ranked	2221 citing authors

#	Article	IF	Citations
1	The extreme melt across the Greenland ice sheet in 2012. Geophysical Research Letters, 2012, 39, .	1.5	397
2	Snow and firn properties and airâ€"snow transport processes at Summit, Greenland. Atmospheric Environment, 2002, 36, 2789-2797.	1.9	170
3	Climate change and forest fires synergistically drive widespread melt events of the Greenland Ice Sheet. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7964-7967.	3.3	122
4	Processes and properties of snowâ€"air transfer in the high Arctic with application to interstitial ozone at Alert, Canada. Atmospheric Environment, 2002, 36, 2779-2787.	1.9	108
5	Photochemically induced production of CH3Br, CH3I, C2H5I, ethene, and propene within surface snow at Summit, Greenland. Atmospheric Environment, 2002, 36, 2671-2682.	1.9	92
6	Deep air convection in the firn at a zero-accumulation site, central Antarctica. Earth and Planetary Science Letters, 2010, 293, 359-367.	1.8	82
7	Reactive trace gases measured in the interstitial air of surface snow at Summit, Greenland. Atmospheric Environment, 2004, 38, 1687-1697.	1.9	76
8	Thermal effects due to air flow and vapor transport in dry snow. Journal of Glaciology, 1992, 38, 273-281.	1.1	72
9	Physically based modeling of atmosphere-to-snow-to-firn transfer of H2O2at South Pole. Journal of Geophysical Research, 1998, 103, 10561-10570.	3.3	67
10	Impacts of an accumulation hiatus on the physical properties of firn at a low-accumulation polar site. Journal of Geophysical Research, 2007, 112, .	3.3	63
11	Polar firn air reveals large-scale impact of anthropogenic mercury emissions during the 1970s. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16114-16119.	3.3	63
12	Snow and firn permeability at Siple Dome, Antarctica. Annals of Glaciology, 2000, 31, 353-356.	2.8	62
13	Ice layer and surface crust permeability in a seasonal snow pack. Hydrological Processes, 2000, 14, 3207-3214.	1.1	55
14	Impact of physical properties and accumulation rate on pore close-off in layered firn. Cryosphere, 2014, 8, 91-105.	1.5	49
15	Seasonal changes in snow surface roughness characteristics at Summit, Greenland: implications for snow and firn ventilation. Annals of Glaciology, 2002, 35, 510-514.	2.8	45
16	Effects of snow and firn ventilation on sublimation rates. Annals of Glaciology, 2002, 35, 52-56.	2.8	44
17	Modeling heat, mass, and species transport in polar firn. Annals of Glaciology, 1996, 23, 138-143.	2.8	37
18	Variability of black carbon deposition to the East Antarctic Plateau, 1800â€"2000 AD. Atmospheric Chemistry and Physics, 2012, 12, 3799-3808.	1.9	37

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19	Sublimation rate and the mass-transfer coefficient for snow sublimation. International Journal of Heat and Mass Transfer, 2009, 52, 309-315.	2.5	32
20	Modeling heat, mass, and species transport in polar firn. Annals of Glaciology, 1996, 23, 138-143.	2.8	31
21	Snow-induced thermal variations around a single conifer tree. Hydrological Processes, 1995, 9, 923-933.	1.1	25
22	WindSat Passive Microwave Polarimetric Signatures of the Greenland Ice Sheet. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2622-2631.	2.7	25
23	The impact of accumulation rate on anisotropy and air permeability of polar firn at a high-accumulation site. Journal of Glaciology, 2009, 55, 625-630.	1.1	24
24	Kinetic fractionation of gases by deep air convection in polar firn. Atmospheric Chemistry and Physics, 2013, 13, 11141-11155.	1.9	23
25	Gas diffusivity and permeability through the firn column at Summit, Greenland: measurements and comparison to microstructural properties. Cryosphere, 2014, 8, 319-328.	1.5	22
26	Dominance of grain size impacts on seasonal snow albedo at open sites in New Hampshire. Journal of Geophysical Research D: Atmospheres, 2017, 122, 121-139.	1.2	19
27	Seasonal differences in surface energy exchange and accumulation at Summit, Greenland. Annals of Glaciology, 2000, 31, 387-390.	2.8	17
28	Microstructure and permeability in the near-surface firn near a potential US deep-drilling site in West Antarctica. Annals of Glaciology, 2004, 39, 62-66.	2.8	16
29	Acidity decline in Antarctic ice cores during the Little Ice Age linked to changes in atmospheric nitrate and sea salt concentrations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5640-5652.	1.2	16
30	Firn Properties Affecting Gas Exchange at Summit, Greenland: Ventilation Possibilities. , 1996, , 561-565.		14
31	The impact of ice layers on gas transport through firn at the North Greenland Eemian Ice Drilling (NEEM) site, Greenland. Cryosphere, 2014, 8, 1801-1806.	1.5	13
32	Bidirectional permeability measurements of polar firn. Annals of Glaciology, 2002, 35, 63-66.	2.8	11
33	Major fraction of black carbon is flushed from the melting New Hampshire snowpack nearly as quickly as soluble impurities. Journal of Geophysical Research D: Atmospheres, 2017, 122, 537-553.	1.2	11
34	Metamorphism of Polar Firn: Significance of Microstructure in Energy, Mass and Chemical Species Transfer. , 1996, , 379-401.		8
35	An improved technique to measure firn diffusivity. International Journal of Heat and Mass Transfer, 2013, 61, 598-604.	2.5	7
36	Climate Effects on Firn Permeability Are Preserved Within a Firn Column. Journal of Geophysical Research F: Earth Surface, 2019, 124, 830-837.	1.0	4

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37	Preface: International Conference on Snow Hydrology: The Integration of Physical, Chemical and Biological Systems. , 1999, 13, 1719-1719.		2
38	The International Polar Year. Science, 2004, 303, 1437-1437.	6.0	2
39	Automated Strategic Prioritization Matchmaking Tool to Facilitate Federalâ€"Community Adaptation Implementation. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	1
40	Local Weather Conditions Create Structural Differences between Shallow Firn Columns at Summit, Greenland and WAIS Divide, Antarctica. Atmosphere, 2020, 11, 1370.	1.0	1
41	Thermal conductivity of polar firn. Journal of Glaciology, 0, , 1-8.	1.1	1
42	Guest editorial: Cryospheric science and engineering. Cold Regions Science and Technology, 2008, 52, 99-100.	1.6	0