

Marco Tedesco

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

5,598
citations

76326

40
h-index

82547

72
g-index

82
all docs

82
docs citations

82
times ranked

4580
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Dataset Integrating Public Socioeconomic, Physical Risk, and Housing Data for Climate Justice Metrics: A Test-Case Study in Miami. <i>Environmental Justice</i> , 2022, 15, 149-159.	1.5	5
2	Summer Greenland Blocking Diversity and Its Impact on the Surface Mass Balance of the Greenland Ice Sheet. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4
3	Reanalysis Surface Mass Balance of the Greenland Ice Sheet Along Kâ€Transect (2000â€2014). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094602.	4.0	0
4	Unprecedented atmospheric conditions (1948â€2019) drive the 2019 exceptional melting season over the Greenland ice sheet. <i>Cryosphere</i> , 2020, 14, 1209-1223.	3.9	109
5	The Arctic. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S239-S286.	3.3	29
6	Evaluation of long-term Northern Hemisphere snow water equivalent products. <i>Cryosphere</i> , 2020, 14, 1579-1594.	3.9	85
7	GrSMBMIP: intercomparison of the modelled 1980â€2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	3.9	111
8	Quantifying spatiotemporal variability of glacier algal blooms and the impact on surface albedo in southwestern Greenland. <i>Cryosphere</i> , 2020, 14, 2687-2713.	3.9	9
9	Evaluating a Regional Climate Model Simulation of Greenland Ice Sheet Snow and Firn Density for Improved Surface Mass Balance Estimates. <i>Geophysical Research Letters</i> , 2019, 46, 12073-12082.	4.0	14
10	Controls on the Transport of Meltwater From the Southern Greenland Ice Sheet in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3551-3560.	2.6	12
11	The Effect of Foehnâ€Induced Surface Melt on Firn Evolution Over the Northeast Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2019, 46, 3822-3831.	4.0	55
12	Increased Greenland melt triggered by large-scale, year-round cyclonic moisture intrusions. <i>Cryosphere</i> , 2019, 13, 815-825.	3.9	37
13	Simulated Greenland Surface Mass Balance in the GISS ModelE2 GCM: Role of the Ice Sheet Surface. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 750-765.	2.8	15
14	Spatial Shift of Greenland Moisture Sources Related toâ€Enhanced Arctic Warming. <i>Geophysical Research Letters</i> , 2019, 46, 14723-14731.	4.0	23
15	Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2570-2591.	2.6	37
16	Southeast Greenland Winter Precipitation Strongly Linked to the Icelandic Low Position. <i>Journal of Climate</i> , 2018, 31, 4483-4500.	3.2	23
17	Seasonal monitoring of melt and accumulation within the deep percolation zone of the Greenland Ice Sheet and comparison with simulations of regional climate modeling. <i>Cryosphere</i> , 2018, 12, 1851-1866.	3.9	24
18	A new surface meltwater routing model for use on the Greenland Ice Sheet surface. <i>Cryosphere</i> , 2018, 12, 3791-3811.	3.9	23

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19	Mapping Ice Algal Blooms in Southwest Greenland From Space. <i>Geophysical Research Letters</i> , 2018, 45, 11,779.	4.0	21
20	Melting over the northeast Antarctic Peninsula (1999–2009): evaluation of a high-resolution regional climate model. <i>Cryosphere</i> , 2018, 12, 2901-2922.	3.9	19
21	Improving Greenland Surface Mass Balance Estimates Through the Assimilation of MODIS Albedo: A Case Study Along the Kâ€Transect. <i>Geophysical Research Letters</i> , 2018, 45, 6549-6556.	4.0	7
22	Antarctic ice shelf potentially stabilized by export of meltwater in surface river. <i>Nature</i> , 2017, 544, 344-348.	27.8	124
23	Direct measurements of meltwater runoff on the Greenland ice sheet surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10622-E10631.	7.1	66
24	Greenland Ice Sheet Surface Mass Loss: Recent Developments in Observation and Modeling. <i>Current Climate Change Reports</i> , 2017, 3, 345-356.	8.6	94
25	Toward Monitoring Surface and Subsurface Lakes on the Greenland Ice Sheet Using Sentinel-1 SAR and Landsat-8 OLI Imagery. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	67
26	Impact of MODIS sensor calibration updates on Greenland Ice Sheet surface reflectance and albedo trends. <i>Cryosphere</i> , 2017, 11, 1781-1795.	3.9	40
27	Investigating the local-scale influence of sea ice on Greenland surface melt. <i>Cryosphere</i> , 2017, 11, 2363-2381.	3.9	22
28	Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. <i>Geophysical Research Letters</i> , 2017, 44, 6278-6285.	4.0	82
29	Estimating supraglacial lake depth in West Greenland using Landsat 8 and comparison with other multispectral methods. <i>Cryosphere</i> , 2016, 10, 15-27.	3.9	73
30	Feasibility of improving a priori regional climate model estimates of Greenland ice sheet surface mass loss through assimilation of measured ice surface temperatures. <i>Cryosphere</i> , 2016, 10, 103-120.	3.9	10
31	Greenland Ice Sheet seasonal and spatial mass variability from model simulations and GRACE (2003–2012). <i>Cryosphere</i> , 2016, 10, 1259-1277.	3.9	14
32	Annual Greenland accumulation rates (2009–2012) from airborne snow radar. <i>Cryosphere</i> , 2016, 10, 1739-1752.	3.9	73
33	The darkening of the Greenland ice sheet: trends, drivers, and projections (1981–2100). <i>Cryosphere</i> , 2016, 10, 477-496.	3.9	152
34	A New Operational Snow Retrieval Algorithm Applied to Historical AMSR-E Brightness Temperatures. <i>Remote Sensing</i> , 2016, 8, 1037.	4.0	44
35	Arctic cut-off high drives the poleward shift of a new Greenland melting record. <i>Nature Communications</i> , 2016, 7, 11723.	12.8	67
36	Oceanic transport of surface meltwater from the southern Greenland ice sheet. <i>Nature Geoscience</i> , 2016, 9, 528-532.	12.9	85

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37	Atmospheric drivers of Greenland surface melt revealed by self-organizing maps. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5095-5114.	3.3	36
38	Derivation and validation of supraglacial lake volumes on the Greenland Ice Sheet from high-resolution satellite imagery. <i>Remote Sensing of Environment</i> , 2016, 183, 294-303.	11.0	46
39	Efficient meltwater drainage through supraglacial streams and rivers on the southwest Greenland ice sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1001-1006.	7.1	163
40	Mapping the bathymetry of supraglacial lakes and streams on the Greenland ice sheet using field measurements and high-resolution satellite images. <i>Cryosphere</i> , 2014, 8, 215-228.	3.9	46
41	A wavelet melt detection algorithm applied to enhanced-resolution scatterometer data over Antarctica (2000-2009). <i>Cryosphere</i> , 2014, 8, 25-40.	3.9	16
42	Assessing spatio-temporal variability and trends in modelled and measured Greenland Ice Sheet albedo (2000-2013). <i>Cryosphere</i> , 2014, 8, 2293-2312.	3.9	55
43	Trends in Antarctic Peninsula surface melting conditions from observations and regional climate modeling. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 315-330.	2.8	116
44	Understanding Greenland ice sheet hydrology using an integrated multi-scale approach. <i>Environmental Research Letters</i> , 2013, 8, 015017.	5.2	46
45	Ice dynamic response to two modes of surface lake drainage on the Greenland ice sheet. <i>Environmental Research Letters</i> , 2013, 8, 034007.	5.2	88
46	Evidence and analysis of 2012 Greenland records from spaceborne observations, a regional climate model and reanalysis data. <i>Cryosphere</i> , 2013, 7, 615-630.	3.9	242
47	Estimating the Greenland ice sheet surface mass balance contribution to future sea level rise using the regional atmospheric climate model MAR. <i>Cryosphere</i> , 2013, 7, 469-489.	3.9	325
48	Comparative analysis of morphological, mineralogical and spectral properties of cryoconite in Jakobshavn Isbr�, Greenland, and Canada Glacier, Antarctica. <i>Annals of Glaciology</i> , 2013, 54, 147-157.	1.4	16
49	Greenland ice sheet albedo feedback: thermodynamics and atmospheric drivers. <i>Cryosphere</i> , 2012, 6, 821-839.	3.9	327
50	21st century projections of surface mass balance changes for major drainage systems of the Greenland ice sheet. <i>Environmental Research Letters</i> , 2012, 7, 045405.	5.2	33
51	Calibration and evaluation of a high-resolution surface mass-balance model for Paakitsoq, West Greenland. <i>Journal of Glaciology</i> , 2012, 58, 1047-1062.	2.2	17
52	A review of global satellite-derived snow products. <i>Advances in Space Research</i> , 2012, 50, 1007-1029.	2.6	242
53	The extreme melt across the Greenland ice sheet in 2012. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	397
54	Measurement and modeling of ablation of the bottom of supraglacial lakes in western Greenland. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	65

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55	The air content of Larsen Ice Shelf. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	77
56	The role of albedo and accumulation in the 2010 melting record in Greenland. <i>Environmental Research Letters</i> , 2011, 6, 014005.	5.2	207
57	In-situ multispectral and bathymetric measurements over a supraglacial lake in western Greenland using a remotely controlled watercraft. <i>Cryosphere</i> , 2011, 5, 445-452.	3.9	50
58	Melting trends over the Greenland ice sheet (1958â€“2009) from spaceborne microwave data and regional climate models. <i>Cryosphere</i> , 2011, 5, 359-375.	3.9	217
59	Dynamic Approaches for Snow Depth Retrieval From Spaceborne Microwave Brightness Temperature. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 1955-1967.	6.3	40
60	Editorial "Remote sensing in hydrological sciences". <i>Hydrology and Earth System Sciences</i> , 2009, 13, 813-817.	4.9	38
61	Assessment and development of snowmelt retrieval algorithms over Antarctica from K-band spaceborne brightness temperature (1979â€“2008). <i>Remote Sensing of Environment</i> , 2009, 113, 979-997.	11.0	81
62	Retrieval of snow grain size over Greenland from MODIS. <i>Remote Sensing of Environment</i> , 2009, 113, 1976-1987.	11.0	96
63	Application of Satellite Microwave Images in Estimating Snow Water Equivalent¹. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1347-1362.	2.4	16
64	Multimodel Estimation of Snow Microwave Emission during CLPX 2003 Using Operational Parameterization of Microphysical Snow Characteristics. <i>Journal of Hydrometeorology</i> , 2008, 9, 1491-1505.	1.9	13
65	Diagnosing the extreme surface melt event over southwestern Greenland in 2007. <i>Cryosphere</i> , 2008, 2, 159-166.	3.9	64
66	Snowmelt detection over the Greenland ice sheet from SSM/I brightness temperature daily variations. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	169
67	Identification of atmospheric influences on the estimation of snow water equivalent from AMSR-E measurements. <i>Remote Sensing of Environment</i> , 2007, 111, 398-408.	11.0	50
68	Observations and statistical analysis of combined activeâ€“passive microwave space-borne data and snow depth at large spatial scales. <i>Remote Sensing of Environment</i> , 2007, 111, 382-397.	11.0	23
69	The semi-analytical snow retrieval algorithm and its application to MODIS data. <i>Remote Sensing of Environment</i> , 2007, 111, 228-241.	11.0	46
70	Atmospheric Correction of AMSR-E Brightness Temperatures for Dry Snow Cover Mapping. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 320-324.	3.1	30
71	Intercomparison of Electromagnetic Models for Passive Microwave Remote Sensing of Snow. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2654-2666.	6.3	85
72	Retrieval of dry-snow parameters from microwave radiometric data using a dense-medium model and genetic algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2143-2151.	6.3	19

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73	Brightness Temperatures of Snow Melting/Refreezing Cycles: Observations and Modeling Using a Multilayer Dense Medium Theory-Based Model. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 3563-3573.	6.3	37
74	Study of the snow melt-freeze cycle using multi-sensor data and snow modeling. Journal of Glaciology, 2004, 50, 419-426.	2.2	25
75	Artificial neural network-based techniques for the retrieval of SWE and snow depth from SSM/I data. Remote Sensing of Environment, 2004, 90, 76-85.	11.0	161
76	L-band ice-sheet brightness temperatures at Dome C, Antarctica: spectral emission modelling, temporal stability and impact of the ionosphere. Annals of Glaciology, 2004, 39, 391-396.	1.4	23
77	Microwave radiometric measurements of soil moisture in Italy. Hydrology and Earth System Sciences, 2003, 7, 937-948.	4.9	22
78	Microwave emission from dry snow: a comparison of experimental and model results. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2649-2656.	6.3	55