

Tavi Murray

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/820359/publications.pdf>

Version: 2024-02-01

93
papers

4,209
citations

100601

38
h-index

145109

60
g-index

101
all docs

101
docs citations

101
times ranked

3191
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar Derived Subglacial Properties and Landforms Beneath Rutford Ice Stream, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	2
2	The Impacts of a Subglacial Discharge Plume on Calving, Submarine Melting, and MÅ©lange Mass Loss at Helheim Glacier, South East Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005910.	1.0	8
3	Not all Icequakes are Created Equal: Basal Icequakes Suggest Diverse Bed Deformation Mechanisms at Rutford Ice Stream, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006001.	1.0	16
4	Improved Estimation of Glacial Earthquake Size Through New Modeling of the Seismic Source. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006384.	1.0	0
5	The deglaciation of coastal areas of southeast Greenland. <i>Holocene</i> , 2018, 28, 1535-1544.	0.9	5
6	Minimal Holocene retreat of large tidewater glaciers in KÅge Bugt, southeast Greenland. <i>Scientific Reports</i> , 2017, 7, 12330.	1.6	9
7	On the role of buoyant flexure in glacier calving. <i>Geophysical Research Letters</i> , 2016, 43, 232.	1.5	45
8	Improved accuracy of cross-borehole radar velocity models for ice property analysis. <i>Geophysics</i> , 2016, 81, WA203-WA212.	1.4	8
9	Investigation of wind and tidal forcing on stratified flows in Greenland fjords with TELEMAC-3D. <i>European Journal of Computational Mechanics</i> , 2016, 25, 249-272.	0.6	1
10	Dynamics of glacier calving at the ungrounded margin of Helheim Glacier, southeast Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 964-982.	1.0	55
11	Seasonal dynamic thinning at Helheim Glacier. <i>Earth and Planetary Science Letters</i> , 2015, 415, 47-53.	1.8	31
12	Evidence for the asynchronous retreat of large outlet glaciers in southeast Greenland at the end of the last glaciation. <i>Quaternary Science Reviews</i> , 2014, 99, 244-259.	1.4	40
13	A High-Resolution Sensor Network for Monitoring Glacier Dynamics. <i>IEEE Sensors Journal</i> , 2014, 14, 3926-3931.	2.4	23
14	Oceanic heat delivery via Kangerdlugssuaq Fjord to the south-east Greenland ice sheet. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 631-645.	1.0	77
15	Buoyant flexure and basal crevassing in dynamic mass loss at Helheim Glacier. <i>Nature Geoscience</i> , 2014, 7, 593-596.	5.4	75
16	An automatic approach to delineate the cold-temperate transition surface with ground-penetrating radar on polythermal glaciers. <i>Annals of Glaciology</i> , 2014, 55, 89-96.	2.8	6
17	Vertical seismic profiling of glaciers: appraising multi-phase mixing models. <i>Annals of Glaciology</i> , 2013, 54, 115-123.	2.8	4
18	A comparison of seismic and radar methods to establish the thickness and density of glacier snow cover. <i>Annals of Glaciology</i> , 2013, 54, 73-82.	2.8	21

#	ARTICLE	IF	CITATIONS
19	Campaign to map the bathymetry of a major Greenland fjord. <i>Eos</i> , 2012, 93, 141-142.	0.1	23
20	Geometric Changes in a Tidewater Glacier in Svalbard during its Surge Cycle. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 359-367.	0.4	20
21	Twenty years of cold surface layer thinning at Storglaciären, sub-Arctic Sweden, 1989-2009. <i>Journal of Glaciology</i> , 2012, 58, 3-10.	1.1	33
22	Dynamics of tidewater surge-type glaciers in northwest Svalbard. <i>Journal of Glaciology</i> , 2012, 58, 110-118.	1.1	46
23	Stable dynamics in a Greenland tidewater glacier over 26 years despite reported thinning. <i>Annals of Glaciology</i> , 2012, 53, 241-248.	2.8	10
24	Influences on the resolution of GPR velocity analyses and a Monte Carlo simulation for establishing velocity precision. <i>Near Surface Geophysics</i> , 2011, 9, 399-411.	0.6	29
25	Till genesis at the bed of an Antarctic Peninsula palaeo-ice stream as indicated by micromorphological analysis. <i>Boreas</i> , 2011, 40, 498-517.	1.2	39
26	Streaming flow of an Antarctic Peninsula palaeo-ice stream, both by basal sliding and deformation of substrate. <i>Journal of Glaciology</i> , 2011, 57, 596-608.	1.1	45
27	Seismic wave attenuation in the uppermost glacier ice of Storglaciären, Sweden. <i>Journal of Glaciology</i> , 2010, 56, 249-256.	1.1	27
28	Multi-offset ground penetrating radar methods to image buried foundations of a medieval town wall, Great Yarmouth, UK. <i>Archaeological Prospection</i> , 2010, 17, 103-116.	1.1	10
29	Imaging glacial sediment inclusions in ice using ground penetrating radar at Kongsvegen, Svalbard. <i>Journal of Quaternary Science</i> , 2010, 25, 754-761.	1.1	16
30	Semblance response to a ground penetrating radar wavelet and resulting errors in velocity analysis. <i>Near Surface Geophysics</i> , 2010, 8, 235-246.	0.6	44
31	Non-linear responses of Rutford Ice Stream, Antarctica, to semi-diurnal and diurnal tidal forcing. <i>Journal of Glaciology</i> , 2010, 56, 167-176.	1.1	23
32	Spatio-temporal variability in elevation changes of two high-Arctic valley glaciers. <i>Journal of Glaciology</i> , 2010, 56, 771-780.	1.1	43
33	Vertical distribution of water within the polythermal Storglaciären, Sweden. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	28
34	Evaluating the impact of task demands and block resolution on the effectiveness of pixel-based visualization. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010, 16, 963-972.	2.9	18
35	The location of the grounding zone of Evans Ice Stream, Antarctica, investigated using SAR interferometry and modelling. <i>Annals of Glaciology</i> , 2009, 50, 35-40.	2.8	21
36	Assessment of Glacier Volume Change Using ASTER-Based Surface Matching of Historical Photography. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1971-1979.	2.7	31

#	ARTICLE	IF	CITATIONS
37	Optimizing photogrammetric DEMs for glacier volume change assessment using laser-scanning derived ground-control points. <i>Journal of Glaciology</i> , 2009, 55, 106-116.	1.1	53
38	Spectral bandwidth enhancement of GPR profiling data using multiple-frequency compositing. <i>Journal of Applied Geophysics</i> , 2009, 67, 88-97.	0.9	24
39	Contrasting sources for glacial and interglacial shelf sediments used to interpret changing ice flow directions in the Larsen Basin, Northern Antarctic Peninsula. <i>Marine Geology</i> , 2009, 266, 156-171.	0.9	15
40	Bedform topography and basal conditions beneath a fast-flowing West Antarctic ice stream. <i>Quaternary Science Reviews</i> , 2009, 28, 584-596.	1.4	91
41	A new framework for estimating englacial water content and pore geometry using combined radar and seismic wave velocities. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	31
42	Three-dimensional, multi-offset ground-penetrating radar imaging of archaeological targets. <i>Archaeological Prospection</i> , 2008, 15, 93-112.	1.1	48
43	Optimising ice flow law parameters using borehole deformation measurements and numerical modelling. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	7
44	Estimates of water content in glacier ice using vertical radar profiles: a modified interpretation for the temperate glacier Falljökull, Iceland. <i>Journal of Glaciology</i> , 2008, 54, 939-942.	1.1	8
45	Water-Content of Glacier-Ice: Limitations on Estimates from Velocity Analysis of Surface Ground-Penetrating Radar Surveys. <i>Journal of Environmental and Engineering Geophysics</i> , 2007, 12, 87-99.	1.0	67
46	Errors in Radar CMP Velocity Estimates Due to Survey Geometry, and Their Implication for Ice Water Content Estimation. <i>Journal of Environmental and Engineering Geophysics</i> , 2007, 12, 101-111.	1.0	39
47	Positive mass balance during the late 20th century on Austfonna, Svalbard, revealed using satellite radar interferometry. <i>Annals of Glaciology</i> , 2007, 46, 117-122.	2.8	16
48	DEM quality assessment for quantification of glacier surface change. <i>Annals of Glaciology</i> , 2007, 46, 189-194.	2.8	18
49	Improvement of Satellite Radar Feature Tracking for Ice Velocity Derivation by Spatial Frequency Filtering. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 2309-2318.	2.7	38
50	Dielectric Permittivity Measurements on Ice Cores: Implications for Interpretation of Radar to Yield Glacial Unfrozen Water Content. <i>Journal of Environmental and Engineering Geophysics</i> , 2007, 12, 37-45.	1.0	15
51	Rapid and synchronous ice-dynamic changes in East Greenland. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	184
52	Extracting photogrammetric ground control from lidar DEMs for change detection. <i>Photogrammetric Record</i> , 2006, 21, 312-328.	0.4	42
53	Greenland's ice on the scales. <i>Nature</i> , 2006, 443, 277-278.	13.7	6
54	Multivariate Controls on the Incidence of Glacier Surging in the Karakoram Himalaya. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 489-498.	0.4	74

#	ARTICLE	IF	CITATIONS
55	Seismic emissions from a surging glacier: Bakaninbreen, Svalbard. <i>Annals of Glaciology</i> , 2005, 42, 151-157.	2.8	46
56	Characterisation of glacial sediments using geophysical methods for groundwater source protection. <i>Journal of Applied Geophysics</i> , 2005, 57, 293-305.	0.9	31
57	Structure and changing dynamics of a polythermal valley glacier on a centennial timescale: Midre Lov�n breen, Svalbard. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	64
58	Glacier surge dynamics of Sortebr�n �, east Greenland, from synthetic aperture radar feature tracking. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	73
59	Seasonal variation in velocity before retreat of Jakobshavn Isbr�n �, Greenland. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	104
60	Is there a single surge mechanism? Contrasts in dynamics between glacier surges in Svalbard and other regions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	166
61	Characterization of englacial channels by ground-penetrating radar: An example from austre Br�ggerbreen, Svalbard. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
62	ERS SAR feature-tracking measurement of outlet glacier velocities on a regional scale in East Greenland. <i>Annals of Glaciology</i> , 2003, 36, 129-134.	2.8	32
63	Surge-related topographic change of the glacier Sortebr�n �, East Greenland, derived from synthetic aperture radar interferometry. <i>Journal of Glaciology</i> , 2003, 49, 381-390.	1.1	16
64	Glacier surge mechanisms inferred from ground-penetrating radar: Kongsvegen, Svalbard. <i>Journal of Glaciology</i> , 2003, 49, 473-480.	1.1	30
65	Surge potential and drainage-basin characteristics in East Greenland. <i>Annals of Glaciology</i> , 2003, 36, 142-148.	2.8	62
66	Slug-test derived differences in bed hydraulic properties between a surge-type and a non-surge-type Svalbard glacier. <i>Annals of Glaciology</i> , 2003, 36, 103-109.	2.8	12
67	The initiation of glacier surging at Fridtjovbreen, Svalbard. <i>Annals of Glaciology</i> , 2003, 36, 110-116.	2.8	45
68	Ice dynamics during a surge of Sortebr�n �, East Greenland. <i>Annals of Glaciology</i> , 2002, 34, 323-329.	2.8	32
69	Surface flow evolution throughout a glacier surge measured by satellite radar interferometry. <i>Geophysical Research Letters</i> , 2002, 29, 10-1-10-4.	1.5	237
70	Sedimentological investigations in the forefield of an Icelandic surge-type glacier: implications for the surge mechanism. <i>Quaternary Science Reviews</i> , 2002, 21, 1503-1520.	1.4	41
71	Formation and reorientation of structure in the surge-type glacier Kongsvegen, Svalbard. <i>Journal of Quaternary Science</i> , 2002, 17, 201-209.	1.1	51
72	Basal conditions beneath a soft-bedded polythermal surge-type glacier: Bakaninbreen, Svalbard. <i>Quaternary International</i> , 2001, 86, 103-116.	0.7	44

#	ARTICLE	IF	CITATIONS
73	Glacier ice: revised edition. Austin Post and Edward R. LaChapelle. 2000. Seattle: University of Washington Press in association with the International Glaciological Society. Xii + 145 p, illustrated, soft cover. ISBN 0-295-97910-0. US\$27.95.. Polar Record, 2001, 37, 167-167.	0.4	0
74	Multi-model photogrammetric analysis of the 1990s surge of SortebrÃ, East Greenland. Journal of Glaciology, 2001, 47, 677-687.	1.1	34
75	Mechanical and hydraulic properties of till beneath Bakaninbreen, Svalbard. Journal of Glaciology, 2001, 47, 167-175.	1.1	34
76	Thermally controlled glacier surging. Journal of Glaciology, 2001, 47, 527-538.	1.1	157
77	Englacial water distribution in a temperate glacier from surface and borehole radar velocity analysis. Journal of Glaciology, 2000, 46, 389-398.	1.1	102
78	Controls on the distribution of surge-type glaciers in Svalbard. Journal of Glaciology, 2000, 46, 412-422.	1.1	179
79	Evidence against pervasive bed deformation during the surge of an Icelandic glacier. Geological Society Special Publication, 2000, 176, 203-216.	0.8	17
80	Glacier surge propagation by thermal evolution at the bed. Journal of Geophysical Research, 2000, 105, 13491-13507.	3.3	148
81	Computational intelligence techniques in geography. An introduction. Journal of Geographical Systems, 1999, 1, 1-2.	1.9	3
82	Using computational intelligence techniques to model subglacial water systems. Journal of Geographical Systems, 1999, 1, 37-60.	1.9	18
83	The incidence of glacier surging in Svalbard: evidence from multivariate statistics. Computers and Geosciences, 1998, 24, 387-399.	2.0	95
84	Generalized linear modelling in geomorphology. , 1998, 23, 1185-1195.		60
85	Geometric evolution and ice dynamics during a surge of Bakaninbreen, Svalbard. Journal of Glaciology, 1998, 44, 263-272.	1.1	68
86	Geometric evolution and ice dynamics during a surge of Bakaninbreen, Svalbard. Journal of Glaciology, 1998, 44, 263-272.	1.1	35
87	Assessing the paradigm shift: Deformable glacier beds. Quaternary Science Reviews, 1997, 16, 995-1016.	1.4	86
88	Sediment deformation and basal dynamics beneath a glacier surge front: Bakaninbreen, Svalbard. Annals of Glaciology, 1997, 24, 21-26.	2.8	27
89	Sediment deformation and basal dynamics beneath a glacier surge front: Bakaninbreen, Svalbard. Annals of Glaciology, 1997, 24, 21-26.	2.8	23
90	Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Annals of Glaciology, 1996, 22, 241-248.	2.8	71

#	ARTICLE	IF	CITATIONS
91	Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. <i>Annals of Glaciology</i> , 1996, 22, 241-248.	2.8	47
92	Black-box modeling of the subglacial water system. <i>Journal of Geophysical Research</i> , 1995, 100, 10231-10245.	3.3	116
93	Water throughflow and the physical effects of deformation on sedimentary glacier beds. <i>Journal of Geophysical Research</i> , 1992, 97, 8993-9002.	3.3	41