

Henry Patton

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,665
citations

471509

17
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

2113
citing authors

#	ARTICLE	IF	CITATIONS
1	Deglaciation of the Eurasian ice sheet complex. <i>Quaternary Science Reviews</i> , 2017, 169, 148-172.	3.0	253
2	Dynamic cycles, ice streams and their impact on the extent, chronology and deglaciation of the British-Irish ice sheet. <i>Quaternary Science Reviews</i> , 2009, 28, 758-776.	3.0	214
3	Massive blow-out craters formed by hydrate-controlled methane expulsion from the Arctic seafloor. <i>Science</i> , 2017, 356, 948-953.	12.6	177
4	The build-up, configuration, and dynamical sensitivity of the Eurasian ice-sheet complex to Late Weichselian climatic and oceanic forcing. <i>Quaternary Science Reviews</i> , 2016, 153, 97-121.	3.0	138
5	Amplified melt and flow of the Greenland ice sheet driven by late-summer cyclonic rainfall. <i>Nature Geoscience</i> , 2015, 8, 647-653.	12.9	107
6	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , 2018, 9, 83.	12.8	97
7	Postglacial response of Arctic Ocean gas hydrates to climatic amelioration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6215-6220.	7.1	92
8	Ice-ocean interaction and calving front morphology at two west Greenland tidewater outlet glaciers. <i>Cryosphere</i> , 2014, 8, 1457-1468.	3.9	88
9	Geophysical constraints on the dynamics and retreat of the Barents Sea ice sheet as a paleobenchmark for models of marine ice sheet deglaciation. <i>Reviews of Geophysics</i> , 2015, 53, 1051-1098.	23.0	68
10	Evaluation of a numerical model of the British-Irish ice sheet using relative sea-level data: implications for the interpretation of trimline observations. <i>Journal of Quaternary Science</i> , 2012, 27, 597-605.	2.1	60
11	Glacial isostatic adjustment associated with the Barents Sea ice sheet: A modelling inter-comparison. <i>Quaternary Science Reviews</i> , 2016, 147, 122-135.	3.0	58
12	The configuration, sensitivity and rapid retreat of the Late Weichselian Icelandic ice sheet. <i>Earth-Science Reviews</i> , 2017, 166, 223-245.	9.1	46
13	Distribution and characteristics of overdeepenings beneath the Greenland and Antarctic ice sheets: Implications for overdeepening origin and evolution. <i>Quaternary Science Reviews</i> , 2016, 148, 128-145.	3.0	39
14	Regulation of ice stream flow through subglacial formation of gas hydrates. <i>Nature Geoscience</i> , 2016, 9, 370-374.	12.9	38
15	Cenozoic uplift and erosion of the Norwegian Barents Shelf – A review. <i>Earth-Science Reviews</i> , 2021, 217, 103609.	9.1	29
16	Subglacial water storage and drainage beneath the Fennoscandian and Barents Sea ice sheets. <i>Quaternary Science Reviews</i> , 2018, 201, 13-28.	3.0	23
17	The last <i>Welsh Ice Cap</i> : Part 1 – Modelling its evolution, sensitivity and associated climate. <i>Boreas</i> , 2013, 42, 471-490.	2.4	19
18	The last <i>Welsh Ice Cap</i> : Part 2 – Dynamics of a topographically controlled icecap. <i>Boreas</i> , 2013, 42, 491-510.	2.4	17

#	ARTICLE	IF	CITATIONS
19	Icelandic permafrost dynamics since the Last Glacial Maximum – model results and geomorphological implications. <i>Quaternary Science Reviews</i> , 2020, 233, 106236.	3.0	16
20	Elevation Changes of the Fennoscandian Ice Sheet Interior During the Last Deglaciation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088796.	4.0	15
21	Ice-marginal sedimentation associated with the Late Devensian Welsh Ice Cap and the Irish Sea Ice Stream: Tonfanau, West Wales. <i>Proceedings of the Geologists Association</i> , 2009, 120, 256-274.	1.1	13
22	Rapid marine deglaciation: asynchronous retreat dynamics between the Irish Sea Ice Stream and terrestrial outlet glaciers. <i>Earth Surface Dynamics</i> , 2013, 1, 53-65.	2.4	13
23	Modification of bedrock surfaces by glacial abrasion and quarrying: Evidence from North Wales. <i>Geomorphology</i> , 2020, 365, 107283.	2.6	11
24	Automated mapping of glacial overdeepenings beneath contemporary ice sheets: Approaches and potential applications. <i>Geomorphology</i> , 2015, 232, 209-223.	2.6	10
25	The role of ocean and atmospheric dynamics in the marine-based collapse of the last Eurasian Ice Sheet. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	9
26	Glacially Induced Stress Across the Arctic From the Eemian Interglacial to the Present – Implications for Faulting and Methane Seepage. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	7
27	Hydrocarbon leakage driven by Quaternary glaciations in the Barents Sea based on 2D basin and petroleum system modeling. <i>Marine and Petroleum Geology</i> , 2022, 138, 105557.	3.3	4
28	Is there a climatic control on Icelandic volcanism?. <i>Quaternary Science Advances</i> , 2020, 1, 100004.	1.9	2
29	The Eurasian Arctic: glacial landforms from the Last Glacial Maximum. , 2022, , 395-399.		1
30	Modelling the dynamic instabilities of the last British-Irish Ice Sheet. <i>Quaternary International</i> , 2012, 279-280, 369-370.	1.5	0
31	The Eurasian Arctic. , 2022, , 59-64.		0