

# Pippa L Whitehouse

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

5,139  
citations

147786  
31  
h-index

144002  
57  
g-index

67  
all docs

67  
docs citations

67  
times ranked

5092  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	12.6	1,246
2	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	27.8	759
3	Ice-sheet mass balance and climate change. <i>Nature</i> , 2013, 498, 51-59.	27.8	253
4	Deglaciation of the Eurasian ice sheet complex. <i>Quaternary Science Reviews</i> , 2017, 169, 148-172.	3.0	253
5	A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. <i>Geophysical Journal International</i> , 2012, 190, 1464-1482.	2.4	227
6	A deglacial model for Antarctica: geological constraints and glaciological modelling as a basis for a new model of Antarctic glacial isostatic adjustment. <i>Quaternary Science Reviews</i> , 2012, 32, 1-24.	3.0	226
7	Lower satellite-gravimetry estimates of Antarctic sea-level contribution. <i>Nature</i> , 2012, 491, 586-589.	27.8	159
8	Rapid bedrock uplift in the Antarctic Peninsula explained by viscoelastic response to recent ice unloading. <i>Earth and Planetary Science Letters</i> , 2014, 397, 32-41.	4.4	122
9	Glacial isostatic adjustment modelling: historical perspectives, recent advances, and future directions. <i>Earth Surface Dynamics</i> , 2018, 6, 401-429.	2.4	115
10	Extensive retreat and re-advance of the West Antarctic Ice Sheet during the Holocene. <i>Nature</i> , 2018, 558, 430-434.	27.8	113
11	Antarctic ice rises and rumples: Their properties and significance for ice-sheet dynamics and evolution. <i>Earth-Science Reviews</i> , 2015, 150, 724-745.	9.1	103
12	A new Holocene relative sea level curve for the South Shetland Islands, Antarctica. <i>Quaternary Science Reviews</i> , 2011, 30, 3152-3170.	3.0	100
13	Effect of GIA models with 3D composite mantle viscosity on GRACE mass balance estimates for Antarctica. <i>Earth and Planetary Science Letters</i> , 2015, 414, 134-143.	4.4	99
14	Solid Earth change and the evolution of the Antarctic Ice Sheet. <i>Nature Communications</i> , 2019, 10, 503.	12.8	93
15	Widespread low rates of Antarctic glacial isostatic adjustment revealed by GPS observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	92
16	Revisiting GRACE Antarctic ice mass trends and accelerations considering autocorrelation. <i>Earth and Planetary Science Letters</i> , 2014, 385, 12-21.	4.4	58
17	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
18	An examination of spatial variability in the timing and magnitude of Holocene relative sea-level changes in the New Zealand archipelago. <i>Quaternary Science Reviews</i> , 2016, 131, 73-101.	3.0	53

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19	Low post-glacial rebound rates in the Weddell Sea due to Late Holocene ice-sheet readvance. <i>Earth and Planetary Science Letters</i> , 2015, 413, 79-89.	4.4	48
20	iceTEA: Tools for plotting and analysing cosmogenic-nuclide surface-exposure data from former ice margins. <i>Quaternary Geochronology</i> , 2019, 51, 72-86.	1.4	48
21	Lack of evidence for a substantial sea-level fluctuation within the Last Interglacial. <i>Nature Geoscience</i> , 2018, 11, 627-634.	12.9	47
22	Geological constraints on glacio-isostatic adjustment models of relative sea-level change during deglaciation of Prince Gustav Channel, Antarctic Peninsula. <i>Quaternary Science Reviews</i> , 2011, 30, 3603-3617.	3.0	46
23	Balancing the last glacial maximum (LGM) sea-level budget. <i>Quaternary Science Reviews</i> , 2019, 205, 143-153.	3.0	45
24	Mass balance of the ice sheets and glaciers – Progress since AR5 and challenges. <i>Earth-Science Reviews</i> , 2020, 201, 102976.	9.1	44
25	Impact of 3-D Earth structure on Fennoscandian glacial isostatic adjustment: Implications for space-geodetic estimates of present-day crustal deformations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	41
26	Uplift rates from a new high-density GPS network in Palmer Land indicate significant late Holocene ice loss in the southwestern Weddell Sea. <i>Geophysical Journal International</i> , 2015, 203, 737-754.	2.4	40
27	Regional biases in absolute sea-level estimates from tide gauge data due to residual unmodeled vertical land movement. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	39
28	A reconciled solution of Meltwater Pulse 1A sources using sea-level fingerprinting. <i>Nature Communications</i> , 2021, 12, 2015.	12.8	38
29	The impact of lateral variations in lithospheric thickness on glacial isostatic adjustment in West Antarctica. <i>Geophysical Journal International</i> , 2018, 214, 811-824.	2.4	37
30	Antarctic ice sheet palaeo-thinning rates from vertical transects of cosmogenic exposure ages. <i>Quaternary Science Reviews</i> , 2019, 206, 65-80.	3.0	35
31	Reconstructing the Last Glacial Maximum ice sheet in the Weddell Sea embayment, Antarctica, using numerical modelling constrained by field evidence. <i>Quaternary Science Reviews</i> , 2011, 30, 2422-2432.	3.0	34
32	Increased ice loading in the Antarctic Peninsula since the 1850s and its effect on glacial isostatic adjustment. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	31
33	Rapid early Holocene sea-level rise in Prydz Bay, East Antarctica. <i>Global and Planetary Change</i> , 2016, 139, 128-140.	3.5	31
34	Glacial isostatic adjustment as a control on coastal processes: An example from the Siberian Arctic. <i>Geology</i> , 2007, 35, 747.	4.4	29
35	Rapid ice unloading in the Fleming Glacier region, southern Antarctic Peninsula, and its effect on bedrock uplift rates. <i>Earth and Planetary Science Letters</i> , 2017, 473, 164-176.	4.4	29
36	Current state and future perspectives on coupled ice-sheet – sea-level modelling. <i>Quaternary Science Reviews</i> , 2017, 169, 13-28.	3.0	28

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37	Incomplete separability of Antarctic plate rotation from glacial isostatic adjustment deformation within geodetic observations. <i>Geophysical Journal International</i> , 2016, 204, 324-330.	2.4	26
38	Impact of glacial isostatic adjustment on cosmogenic surface-exposure dating. <i>Quaternary Science Reviews</i> , 2019, 212, 206-212.	3.0	25
39	Deglacial history of the Pensacola Mountains, Antarctica from glacial geomorphology and cosmogenic nuclide surface exposure dating. <i>Quaternary Science Reviews</i> , 2017, 158, 58-76.	3.0	24
40	Controls on Last Glacial Maximum ice extent in the Weddell Sea embayment, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 371-397.	2.8	24
41	Ice sheet retreat and glacio-isostatic adjustment in Lützow-Holm Bay, East Antarctica. <i>Quaternary Science Reviews</i> , 2017, 169, 85-98.	3.0	23
42	Deglaciation of Pope Glacier implies widespread early Holocene ice sheet thinning in the Amundsen Sea sector of Antarctica. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116501.	4.4	20
43	Holocene relative sea-level change along the tectonically active Chilean coast. <i>Quaternary Science Reviews</i> , 2020, 236, 106281.	3.0	19
44	The uppermost mantle seismic velocity structure of West Antarctica from Rayleigh wave tomography: Insights into tectonic structure and geothermal heat flow. <i>Earth and Planetary Science Letters</i> , 2019, 522, 219-233.	4.4	18
45	Major Ice Sheet Change in the Weddell Sea Sector of West Antarctica Over the Last 5,000 Years. <i>Reviews of Geophysics</i> , 2019, 57, 1197-1223.	23.0	18
46	Glacial isostatic adjustment in response to changing Late Holocene behaviour of ice streams on the Siple Coast, West Antarctica. <i>Geophysical Journal International</i> , 2016, 205, 1-21.	2.4	17
47	Late Holocene relative sea levels near Palmer Station, northern Antarctic Peninsula, strongly controlled by late Holocene ice-mass changes. <i>Quaternary Science Reviews</i> , 2018, 199, 49-59.	3.0	15
48	A physical model for the motion of the Sierra Block relative to North America. <i>Earth and Planetary Science Letters</i> , 2005, 237, 590-600.	4.4	13
49	Relative sea-level data preclude major late Holocene ice-mass change in Pine Island Bay. <i>Nature Geoscience</i> , 2022, 15, 568-572.	12.9	12
50	Stability of the Antarctic Ice Sheet during the pre-industrial Holocene. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 500-515.	29.7	11
51	Mapping Crustal Shear Wave Velocity Structure and Radial Anisotropy Beneath West Antarctica Using Seismic Ambient Noise. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5014-5037.	2.5	10
52	Contrasting Response of West and East Antarctic Ice Sheets to Glacial Isostatic Adjustment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006003.	2.8	10
53	Comparing Glacial Geological Evidence and Model Simulations of Ice Sheet Change since the Last Glacial Period in the Amundsen Sea Sector of Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005827.	2.8	8
54	GPS-Observed Elastic Deformation Due to Surface Mass Balance Variability in the Southern Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5

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55	Glacial Isostatic Adjustment. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 383-413.	0.3	2
56	A GNSS velocity field for crustal deformation studies: The influence of glacial isostatic adjustment on plate motion models. Geophysical Journal International, 0, , .	2.4	2
57	A comparison of annual layer thickness model estimates with observational measurements using the Berkner Island ice core, Antarctica. Antarctic Science, 2017, 29, 382-393.	0.9	1
58	Ancient ice sheet had a growth spurt. Nature, 2018, 559, 487-488.	27.8	1
59	Corrigendum to "Deglaciation of Pope Glacier implies widespread early Holocene ice sheet thinning in the Amundsen Sea sector of Antarctica" [Earth & Planetary Science Letters 548 (2020) 116501]. Earth and Planetary Science Letters, 2021, 576, 117221.	4.4	0