

# Samuel Weber

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7525702/publications.pdf>

Version: 2024-02-01

14  
papers

347  
citations

1162889

8  
h-index

1199470

12  
g-index

31  
all docs

31  
docs citations

31  
times ranked

395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental controls of frost cracking revealed through in situ acoustic emission measurements in steep bedrock. <i>Geophysical Research Letters</i> , 2013, 40, 1748-1753.	1.5	103
2	Quantifying irreversible movement in steep, fractured bedrock permafrost on Matterhorn (CH). <i>Cryosphere</i> , 2017, 11, 567-583.	1.5	37
3	A temperature- and stress-controlled failure criterion for ice-filled permafrost rock joints. <i>Cryosphere</i> , 2018, 12, 3333-3353.	1.5	34
4	Ambient seismic vibrations in steep bedrock permafrost used to infer variations of ice-fill in fractures. <i>Earth and Planetary Science Letters</i> , 2018, 501, 119-127.	1.8	28
5	A decade of detailed observations (2008â€“2018) in steep bedrock permafrost at the Matterhorn HÃ¶rnli (Zermatt, CH). <i>Earth System Science Data</i> , 2019, 11, 1203-1237.	3.7	28
6	Ice loss from glaciers and permafrost and related slope instability in high-mountain regions. , 2021, , 501-540.		26
7	Acoustic and Microseismic Characterization in Steep Bedrock Permafrost on Matterhorn (CH). <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1363-1385.	1.0	22
8	Event-triggered natural hazard monitoring with convolutional neural networks on the edge. , 2019, , .		20
9	A temperature-dependent mechanical model to assess the stability of degrading permafrost rock slopes. <i>Earth Surface Dynamics</i> , 2021, 9, 1125-1151.	1.0	12
10	Systematic identification of external influences in multi-year microseismic recordings using convolutional neural networks. <i>Earth Surface Dynamics</i> , 2019, 7, 171-190.	1.0	9
11	Modelling future lahars controlled by different volcanic eruption scenarios at Cotopaxi (Ecuador) calibrated with the massively destructive 1877 lahar. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 680-700.	1.2	8
12	Brief communication: The influence of mica-rich rocks on the shear strength of ice-filled discontinuities. <i>Cryosphere</i> , 2020, 14, 1849-1855.	1.5	5
13	Spectral amplification of ground motion linked to resonance of large-scale mountain landforms. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117295.	1.8	4
14	The Permafrost Young Researchers Network (PYRN) is getting older: The past, present, and future of our evolving community. <i>Polar Record</i> , 2019, 55, 216-219.	0.4	1