

# Philippe Steer

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

892  
citations

471371

17  
h-index

477173

29  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid post-seismic landslide evacuation boosted by dynamic river width. <i>Nature Geoscience</i> , 2017, 10, 680-684.	5.4	86
2	Bimodal Plio-Quaternary glacial erosion of fjords and low-relief surfaces in Scandinavia. <i>Nature Geoscience</i> , 2012, 5, 635-639.	5.4	81
3	Erosion-induced isostatic rebound triggers extension in low convergent mountain ranges. <i>Geology</i> , 2013, 41, 467-470.	2.0	81
4	Towards the hydrologic and bed load monitoring from high-frequency seismic noise in a braided river: The torrent de St Pierre, French Alps. <i>Journal of Hydrology</i> , 2011, 408, 43-53.	2.3	77
5	Erosion influences the seismicity of active thrust faults. <i>Nature Communications</i> , 2014, 5, 5564.	5.8	66
6	Viscous roots of active seismogenic faults revealed by geologic slip rate variations. <i>Nature Geoscience</i> , 2013, 6, 1036-1040.	5.4	57
7	Assessing modern river sediment discharge to the ocean using satellite gravimetry. <i>Nature Communications</i> , 2018, 9, 3384.	5.8	48
8	Seismic cycles, earthquakes, landslides and sediment fluxes: Linking tectonics to surface processes using a reduced-complexity model. <i>Geomorphology</i> , 2019, 339, 87-103.	1.1	47
9	Coulomb Mechanics and Relief Constraints Explain Landslide Size Distribution. <i>Geophysical Research Letters</i> , 2019, 46, 4258-4266.	1.5	42
10	The impact of extreme El Niño events on modern sediment transport along the western Peruvian Andes (1968-2012). <i>Scientific Reports</i> , 2017, 7, 11947.	1.6	35
11	Three-dimensional numerical simulations of crustal systems undergoing orogeny and subjected to surface processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4936-4957.	1.0	28
12	Evidence for Eocene-Oligocene glaciation in the landscape of the East Greenland margin. <i>Geology</i> , 2016, 44, 895-898.	2.0	28
13	HyLands 1.0: a hybrid landscape evolution model to simulate the impact of landslides and landslide-derived sediment on landscape evolution. <i>Geoscientific Model Development</i> , 2020, 13, 3863-3886.	1.3	28
14	Exploring IRSL50 fading variability in bedrock feldspars and implications for OSL thermochronometry. <i>Quaternary Geochronology</i> , 2016, 36, 55-66.	0.6	22
15	In-situ characterization of the effective elasticity of a fault zone, and its relationship to fracture spacing. <i>Journal of Structural Geology</i> , 2011, 33, 1541-1553.	1.0	21
16	Sediment flux-driven channel geometry adjustment of bedrock and mixed gravel-bedrock rivers. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3714-3731.	1.2	21
17	Typhoon-induced Ground Deformation. <i>Geophysical Research Letters</i> , 2017, 44, 11,004.	1.5	18
18	Beyond 2D landslide inventories and their rollover: synoptic 3D inventories and volume from repeat lidar data. <i>Earth Surface Dynamics</i> , 2021, 9, 1013-1044.	1.0	18

#	ARTICLE	IF	CITATIONS
19	Earthquake statistics changed by typhoon-driven erosion. <i>Scientific Reports</i> , 2020, 10, 10899.	1.6	15
20	A precipitation-based approach to model hydro-sedimentary hazards induced by large sediment supplies in alluvial fans. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2054-2067.	1.2	14
21	Surface Lagrangian Remeshing: A new tool for studying long term evolution of continental lithosphere from 2D numerical modelling. <i>Computers and Geosciences</i> , 2011, 37, 1067-1074.	2.0	10
22	Pulsed carbon export from mountains by earthquake-triggered landslides explored in a reduced-complexity model. <i>Earth Surface Dynamics</i> , 2021, 9, 823-844.	1.0	10
23	Short communication: Analytical models for 2D landscape evolution. <i>Earth Surface Dynamics</i> , 2021, 9, 1239-1250.	1.0	6
24	Quantifying sediment mass redistribution from joint time-lapse gravimetry and photogrammetry surveys. <i>Earth Surface Dynamics</i> , 2020, 8, 555-577.	1.0	6
25	Statistical modelling of co-seismic knickpoint formation and river response to fault slip. <i>Earth Surface Dynamics</i> , 2019, 7, 681-706.	1.0	5
26	The Impact of Lithology on Fjord Morphology. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093101.	1.5	4
27	Modelling the effects of ice transport and sediment sources on the form of detrital thermochronological age probability distributions from glacial settings. <i>Earth Surface Dynamics</i> , 2020, 8, 931-953.	1.0	4
28	The Impact of Large Erosional Events and Transient Normal Stress Changes on the Seismicity of Faults. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087631.	1.5	2
29	Characteristics and possible origins of the seismicity in northwestern France. <i>Comptes Rendus - Geoscience</i> , 2021, 353, 53-77.	0.4	2
30	Short communication: Analytical models for 2D landscape evolution. , 0, , .		1