

# Michael Strasser

## List of Publications by Year in descending order

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114  
papers

3,422  
citations

136950

32  
h-index

182427

51  
g-index

145  
all docs

145  
docs citations

145  
times ranked

2628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin and evolution of a splay fault in the Nankai accretionary wedge. <i>Nature Geoscience</i> , 2009, 2, 648-652.	12.9	177
2	Lacustrine turbidites as a tool for quantitative earthquake reconstruction: New evidence for a variable rupture mode in south central Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1607-1633.	3.4	175
3	Magnitudes and source areas of large prehistoric northern Alpine earthquakes revealed by slope failures in lakes. <i>Geology</i> , 2006, 34, 1005.	4.4	131
4	Lake sediments as natural seismographs: A compiled record of Late Quaternary earthquakes in Central Switzerland and its implication for Alpine deformation. <i>Sedimentology</i> , 2013, 60, 319-341.	3.1	123
5	Quantifying subaqueous slope stability during seismic shaking: Lake Lucerne as model for ocean margins. <i>Marine Geology</i> , 2007, 240, 77-97.	2.1	107
6	Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. <i>Nature Geoscience</i> , 2013, 6, 647-651.	12.9	105
7	Slumping and mass transport deposition in the Nankai fore arc: Evidence from IODP drilling and 3D reflection seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	103
8	Spatial and temporal evolution of the megasplay fault in the Nankai Trough. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	88
9	Documenting large earthquakes similar to the 2011 Tohoku-oki earthquake from sediments deposited in the Japan Trench over the past 1500 years. <i>Earth and Planetary Science Letters</i> , 2016, 445, 48-56.	4.4	78
10	Tectonically-triggered sediment and carbon export to the Hadal zone. <i>Nature Communications</i> , 2018, 9, 121.	12.8	75
11	A slump in the trench: Tracking the impact of the 2011 Tohoku-Oki earthquake. <i>Geology</i> , 2013, 41, 935-938.	4.4	73
12	Lacustrine turbidites produced by surficial slope sediment remobilization: A mechanism for continuous and sensitive turbidite paleoseismic records. <i>Marine Geology</i> , 2017, 384, 159-176.	2.1	71
13	Evolution of tectono-sedimentary systems in the Kumano Basin, Nankai Trough forearc. <i>Marine and Petroleum Geology</i> , 2015, 67, 604-616.	3.3	69
14	Sediment dynamics and geohazards off Uruguay and the de la Plata River region (northern Argentina) <i>Tectonophysics</i> , 2017, 688, 1-15.	1.1	68
15	Interactions between deformation and fluids in the frontal thrust region of the Nankai Trough transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	65
16	Larger earthquakes recur more periodically: New insights in the megathrust earthquake cycle from lacustrine turbidite records in south-central Chile. <i>Earth and Planetary Science Letters</i> , 2018, 481, 9-19.	4.4	65
17	Mapping basin-wide subaquatic slope failure susceptibility as a tool to assess regional seismic and tsunami hazards. <i>Marine Geophysical Researches</i> , 2011, 32, 331-347.	1.2	64
18	Lake-sediment based paleoseismology: Limitations and perspectives from the Swiss Alps. <i>Quaternary Science Reviews</i> , 2017, 168, 1-18.	3.0	63

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19	Megathrust earthquake drives drastic organic carbon supply to the hadal trench. <i>Scientific Reports</i> , 2019, 9, 1553.	3.3	58
20	Event Stratigraphy in a Hadal Oceanic Trench: The Japan Trench as Sedimentary Archive Recording Recurrent Giant Subduction Zone Earthquakes and Their Role in Organic Carbon Export to the Deep Sea. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	51
21	Assessing the internal character, reservoir potential, and seal competence of mass-transport deposits using seismic texture: A geophysical and petrophysical approach. <i>AAPG Bulletin</i> , 2014, 98, 793-824.	1.5	49
22	Identification of the static backstop and its influence on the evolution of the accretionary prism in the Nankai Trough. <i>Earth and Planetary Science Letters</i> , 2015, 431, 15-25.	4.4	49
23	Geotechnical in situ characterization of subaquatic slopes: The role of pore pressure transients versus frictional strength in landslide initiation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	48
24	A hypothesis of the Senoumi submarine megaslide in Suruga Bay in Japan based on the undrained dynamic-loading ring shear tests and computer simulation. <i>Landslides</i> , 2012, 9, 439-455.	5.4	48
25	The role of sediment composition and behavior under dynamic loading conditions on slope failure initiation: a study of a subaqueous landslide in earthquake-prone South-Central Chile. <i>International Journal of Earth Sciences</i> , 2015, 104, 1439-1457.	1.8	46
26	Episodic seafloor mud brecciation due to great subduction zone earthquakes. <i>Geology</i> , 2011, 39, 919-922.	4.4	43
27	Roman-driven cultural eutrophication of Lake Murten, Switzerland. <i>Earth and Planetary Science Letters</i> , 2019, 505, 110-117.	4.4	42
28	Erosional processes, topographic length-scales and geomorphic evolution in arid climatic environments: the "Lluta collapse", northern Chile. <i>International Journal of Earth Sciences</i> , 2005, 94, 433-446.	1.8	41
29	Seismic control of large prehistoric rockslides in the Eastern Alps. <i>Nature Communications</i> , 2021, 12, 1059.	12.8	40
30	Seafloor Displacement After the 2011 Tohoku Earthquake in the Northern Japan Trench Examined by Repeated Bathymetric Surveys. <i>Geophysical Research Letters</i> , 2017, 44, 11,833.	4.0	35
31	IODP Expedition 338: NanTroSEIZE Stage 3: NanTroSEIZE plate boundary deep riser 2. <i>Scientific Drilling</i> , 0, 17, 1-12.	0.6	34
32	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. <i>Geology</i> , 2010, 38, 851-854.	4.4	33
33	Slope failure repetition in active margin environments: Constraints from submarine landslides in the Hellenic fore arc, eastern Mediterranean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
34	Giant lacustrine pockmarks with subaqueous groundwater discharge and subsurface sediment mobilization. <i>Geophysical Research Letters</i> , 2015, 42, 3465-3473.	4.0	33
35	An interdisciplinary investigation of a recent submarine mass transport deposit at the continental margin off Uruguay. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	32
36	Earthquake Impact on Active Margins: Tracing Surficial Remobilization and Seismic Strengthening in a Slope Sedimentary Sequence. <i>Geophysical Research Letters</i> , 2019, 46, 6015-6023.	4.0	32

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37	Site C0002. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	32
38	Erosional features as indicators of thrust fault activity (Nankai Trough, Japan). <i>Marine Geology</i> , 2014, 356, 5-18.	2.1	29
39	Submarine landslide potential near the megasplay fault at the Nankai subduction zone. <i>Earth and Planetary Science Letters</i> , 2011, 312, 453-462.	4.4	28
40	Probabilistic stability evaluation and seismic triggering scenarios of submerged slopes in Lake Zurich (Switzerland). <i>Geo-Marine Letters</i> , 2017, 37, 241-258.	1.1	28
41	Seismogenic zone temperatures and heat-flow anomalies in the To-nankai margin segment based on temperature data from IODP expedition 333 and thermal model. <i>Earth and Planetary Science Letters</i> , 2012, 349-350, 171-185.	4.4	26
42	Late Pleistocene earthquake-triggered moraine dam failure and outburst of Lake Zurich, Switzerland. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
43	Propagation of frontally confined subaqueous landslides: Insights from combining geophysical, sedimentological, and geotechnical analysis. <i>Sedimentary Geology</i> , 2021, 416, 105877.	2.1	25
44	Mid-Quaternary decoupling of sediment routing in the Nankai Forearc revealed by provenance analysis of turbiditic sands. <i>International Journal of Earth Sciences</i> , 2014, 103, 1141-1161.	1.8	24
45	Event-dominated transport, provenance, and burial of organic carbon in the Japan Trench. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116870.	4.4	23
46	Expedition 338 summary. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	23
47	Isotopic and sedimentary signature of megathrust ruptures along the Japan subduction margin. <i>Marine Geology</i> , 2020, 428, 106283.	2.1	22
48	Multivariate Statistical and Multiproxy Constraints on Earthquake-triggered Sediment Remobilization Processes in the Central Japan Trench. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008861.	2.5	21
49	The influence of overpressure and focused fluid flow on subaquatic slope stability in a formerly glaciated basin: Lake Villarrica (South-Central Chile). <i>Marine Geology</i> , 2017, 383, 35-54.	2.1	20
50	A subaqueous hazard map for earthquake-triggered landslides in Lake Zurich, Switzerland. <i>Natural Hazards</i> , 2018, 90, 51-78.	3.4	20
51	New constraints on oceanographic vs. seismic control on submarine landslide initiation: a geotechnical approach off Uruguay and northern Argentina. <i>Geo-Marine Letters</i> , 2014, 34, 399-417.	1.1	18
52	Possible climate preconditioning on submarine landslides along a convergent margin, Nankai Trough (NE Pacific). <i>Progress in Earth and Planetary Science</i> , 2017, 4, .	3.0	18
53	A database of potential paleoseismic evidence in Switzerland. <i>Journal of Seismology</i> , 2020, 24, 247-262.	1.3	18
54	New evidence for massive gravitational mass-transport deposits in the southern Cretan Sea, eastern Mediterranean. <i>Marine Geology</i> , 2009, 263, 97-107.	2.1	17

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55	The 1958 Lituya Bay tsunami – pre-event bathymetry reconstruction and 3D numerical modelling utilising the computational fluid dynamics software Flow-3D. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2255-2279.	3.6	16
56	Impact of sedimentation on evolution of accretionary wedges: Insights from high-resolution thermomechanical modeling. <i>Tectonics</i> , 2016, 35, 2828-2846.	2.8	15
57	Three-dimensional mapping and kinematic characterization of mass transport deposits along the outer Kumano Basin and Nankai accretionary wedge, southwest Japan. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	15
58	Triggers and consequences of landslide-induced impulse waves – 3D dynamic reconstruction of the Taan Fiord 2015 tsunami event. <i>Engineering Geology</i> , 2021, 294, 106384.	6.3	15
59	Flow dynamics of Nankai Trough submarine landslide inferred from internal deformation using magnetic fabric. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4079-4092.	2.5	14
60	Internal deformation of a muddy gravity flow and its interaction with the seafloor (site C0018 of the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	5.4	14
61	Depositional constraints and diagenetic pathways controlling petrophysics of Middle Miocene shallow-water carbonate reservoirs (Leitha limestones), Central Paratethys, Austria-Hungary. <i>Marine and Petroleum Geology</i> , 2018, 91, 586-598.	3.3	14
62	Subaqueous landslide-triggered tsunami hazard for Lake Zurich, Switzerland. <i>Swiss Journal of Geosciences</i> , 2018, 111, 353-371.	1.2	14
63	A New Approach to Constrain the Seismic Origin for Prehistoric Turbidites as Applied to the Dead Sea Basin. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090947.	4.0	14
64	What controls the remobilization and deformation of surficial sediment by seismic shaking? Linking lacustrine slope stratigraphy to great earthquakes in South-Central Chile. <i>Sedimentology</i> , 2021, 68, 2365-2396.	3.1	14
65	Sediment mobilization deposits from episodic subsurface fluid flow – A new tool to reveal long-term earthquake records?. <i>Geology</i> , 2016, 44, 243-246.	4.4	13
66	Stratigraphic signatures of forearc basin formation mechanisms. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2388-2410.	2.5	13
67	OH defects in quartz as a provenance tool: Application to fluvial and deep marine sediments from SW Japan. <i>Sedimentary Geology</i> , 2019, 388, 66-80.	2.1	13
68	Large Mass Transport Deposits in Kumano Basin, Nankai Trough, Japan. <i>Advances in Natural and Technological Hazards Research</i> , 2016, , 371-379.	1.1	13
69	Submarine Mass Movements and Their Consequences. , 2012, , 1-12.		12
70	Subaquatic paleoseismology: records of large Holocene earthquakes in marine and lacustrine sediments. <i>Marine Geology</i> , 2017, 384, 1-3.	2.1	12
71	Land-use evolution in the catchment of Lake Murten, Switzerland. <i>Quaternary Science Reviews</i> , 2020, 230, 106154.	3.0	12
72	Morphology and spatio-temporal distribution of lacustrine mass-transport deposits in WÄrthersee, Eastern Alps, Austria. <i>Geological Society Special Publication</i> , 2020, 500, 235-254.	1.3	12

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73	Submarine Slope Stability Assessment of the Central Mediterranean Continental Margin: The Gela Basin. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 225-236.	1.1	11
74	Reconstruction of retreating mass wasting in response to progressive slope steepening of the northeastern Cretan margin, eastern Mediterranean. <i>Marine Geology</i> , 2010, 271, 44-54.	2.1	10
75	Quantitative characterization of subaqueous landslides in Lake Zurich (Switzerland) based on a high-resolution bathymetric dataset. <i>Geological Society Special Publication</i> , 2019, 477, 399-412.	1.3	10
76	Advanced Dynamic Soil Testing â€” Introducing the New Marum Dynamic Triaxial Testing Device. , 2010, , 31-41.		10
77	IODP Expedition 333: Return to Nankai Trough Subduction Inputs Sites and Coring of Mass Transport Deposits. <i>Scientific Drilling</i> , 0, 14, 4-17.	0.6	10
78	Deep subsurface carbon cycling in the Nankai Trough (Japan)â€”Evidence of tectonically induced stimulation of a deep microbial biosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3257-3270.	2.5	9
79	Long-term pockmark maintenance by fluid seepage and subsurface sediment mobilization â€” sedimentological investigations in Lake Neuchâˆ¢tel. <i>Sedimentology</i> , 2016, 63, 1168-1186.	3.1	8
80	Combined On-Fault and Off-Fault Paleoseismic Evidence in the Postglacial Infill of the Inner-Alpine Lake Achensee (Austria, Eastern Alps). <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	8
81	Orbital- and Millennial-Scale Changes in Lake Levels Facilitate Earthquake-Triggered Mass Failures in the Dead Sea Basin. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093391.	4.0	8
82	A 4000-year debris-flow record based on amphibious investigations of fan delta activity in Plansee (Austria, Eastern Alps). <i>Earth Surface Dynamics</i> , 2021, 9, 1481-1503.	2.4	8
83	Geomorphology and event-stratigraphy of recent mass-movement processes in Lake Hallstatt (UNESCO) Tj ETQq1 1 0.784314 rgBT /Ov 405-426.	1.3	7
84	A tsunamigenic delta collapse and its associated tsunami deposits in and around Lake Sils, Switzerland. <i>Natural Hazards</i> , 2021, 107, 1069-1103.	3.4	7
85	Evidence for Mass Transport Deposits at the IODP JFAST-Site in the Japan Trench. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 33-43.	1.1	7
86	Site C0021. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	7
87	<i>Oceanic Trenches</i> . , 2022, , 882-900.		7
88	Late Glacial and Holocene sedimentary infill of Lake Mondsee (Eastern Alps, Austria) and historical rockfall activity revealed by reflection seismics and sediment core analysis. <i>Austrian Journal of Earth Sciences</i> , 2018, 111, 111-134.	0.5	6
89	High-resolution calibration of seismically-induced lacustrine deposits with historical earthquake data in the Eastern Alps (Carinthia, Austria). <i>Quaternary Science Reviews</i> , 2022, 284, 107497.	3.0	6
90	Evaluating the sealing potential of young and thin mass-transport deposits: Lake Villarrica, Chile. <i>Geological Society Special Publication</i> , 2020, 500, 129-146.	1.3	5

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91	Mass Wasting Along Atlantic Continental Margins: A Comparison Between NW-Africa and the de la Plata River Region (Northern Argentina and Uruguay). <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 459-469.	1.1	5
92	Characteristics of Magnetic Fabrics in Mass Transport Deposits in the Nankai Trough Trench Slope, Japan. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 649-658.	1.1	5
93	Pore Water Geochemistry as a Tool for Identifying and Dating Recent Mass-Transport Deposits. , 2012, , 87-97.		5
94	Data report: permeability, compressibility, stress state, and grain size of shallow sediments from Sites C0004, C0006, C0007, and C0008 of the Nankai accretionary complex. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	5
95	Site C0018. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	5
96	Hiperorig " an innovative hydraulic coring system recovering over 60m long sediment cores from deep perialpine lakes. <i>Scientific Drilling</i> , 0, 28, 29-41.	0.6	5
97	Site C0022. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	5
98	Magnitude and source area estimations of severe prehistoric earthquakes in the western Austrian Alps. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2057-2079.	3.6	5
99	Disentangling factors controlling earthquake-triggered soft-sediment deformation in lakes. <i>Sedimentary Geology</i> , 2022, 438, 106200.	2.1	5
100	Marine Deep-Water Free-Fall Cpt Measurements For Landslide Characterisation Off Crete, Greece (Eastern Mediterranean Sea) Part 2: Initial Data From The Western Cretan Sea. , 2007, , 199-208.		4
101	Integrated Stratigraphic and Morphological Investigation of the Twin Slide Complex Offshore Southern Sicily. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 583-594.	1.1	4
102	Detailed Observation of Topography and Geologic Architecture of a Submarine Landslide Scar in a Toe of an Accretionary Prism. , 2012, , 301-309.		3
103	Analysis of Quaternary Mass Transport Deposits Based on Seismic Data in Southern Deep-Water Region of Qiongdongnan Basin, South China Sea. , 2014, , 575-581.		2
104	High-Resolution Studies of Mass Transport Deposits: Outcrop Perspective for Understanding Modern Submarine Slope Failure and Associated Natural Hazards. , 2014, , 209-213.		2
105	Data Report: Carbon and Oxygen Isotope Geochemistry along a Subducting Pelagic Section offshore Costa Rica (ODP Legs 170 and 205). , 0, , .		2
106	IODP workshop: tracking the Tsunamigenic slips across and along the Japan Trench (JTRACK). <i>Scientific Drilling</i> , 0, 19, 27-32.	0.6	2
107	Site C0025. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
108	<i>Scientific Drilling</i> . <i>Scientific Drilling</i> , 2012, , .	0.6	2

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109	Spatial and temporal cross-cutting relationships between fault structures and slope failures along the outer Kumano Basin and Nankai accretionary wedge, SW Japan. Geological Society Special Publication, 2019, 477, 23-36.	1.3	1
110	Detailed Seafloor Observations on a Deep-Sea Terrace Along the Japan Trench After the 2011 Tohoku Earthquake. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 405-410.	0.3	1
111	Site C0024. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	1
112	Sequence stratigraphic evolution of the Kumano forearc basin during the last deglaciation: Influence of eustasy and tectonically-controlled shelf morphology on deep-marine sediment dynamics. Sedimentary Geology, 2022, 430, 106100.	2.1	1
113	Elemental Distribution and Microfabric Characterization Across a Buried Slump Scar: New Insights on the Long-Term Development and Reactivation of Scar Surfaces from a Microscopic Perspective. Advances in Natural and Technological Hazards Research, 2014, , 23-32.	1.1	0
114	Introduction: Landslides in Coastal and Submarine Environments. , 2014, , 545-548.		0