Michael Strasser

List of Publications by Year
in descending order

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	Oceanic Trenches. , 2022, , 882-900.		7
2	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
3	High-resolution calibration of seismically-induced lacustrine deposits with historical earthquake data in the Eastern Alps (Carinthia, Austria). Quaternary Science Reviews, 2022, 284, 107497.	3.0	6
4	Magnitude and source area estimations of severe prehistoric earthquakes in the western Austrian Alps. Natural Hazards and Earth System Sciences, 2022, 22, 2057-2079.	3.6	5
5	Disentangling factors controlling earthquake-triggered soft-sediment deformation in lakes. Sedimentary Geology, 2022, 438, 106200.	2.1	5
6	A New Approach to Constrain the Seismic Origin for Prehistoric Turbidites as Applied to the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2020GL090947.	4.0	14
7	Seismic control of large prehistoric rockslides in the Eastern Alps. Nature Communications, 2021, 12, 1059.	12.8	40
8	A tsunamigenic delta collapse and its associated tsunami deposits in and around Lake Sils, Switzerland. Natural Hazards, 2021, 107, 1069-1103.	3.4	7
9	Propagation of frontally confined subaqueous landslides: Insights from combining geophysical, sedimentological, and geotechnical analysis. Sedimentary Geology, 2021, 416, 105877.	2.1	25
10	What controls the remobilization and deformation of surficial sediment by seismic shaking? Linking lacustrine slope stratigraphy to great earthquakes in Southâ€“Central Chile. Sedimentology, 2021, 68, 2365-2396.	3.1	14
11	Combined On-Fault and Off-Fault Paleoseismic Evidence in the Postglacial Infill of the Inner-Alpine Lake Achensee (Austria, Eastern Alps). Frontiers in Earth Science, 2021, 9, .	1.8	8
12	Event-dominated transport, provenance, and burial of organic carbon in the Japan Trench. Earth and Planetary Science Letters, 2021, 563, 116870.	4.4	23
13	Orbitalâ€•and Millennialâ€Scale Changes in Lakeâ€Levels Facilitate Earthquakeâ€Triggered Mass Failures in the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2021GL093391.	4.0	8
14	Triggers and consequences of landslide-induced impulse waves â€“ 3D dynamic reconstruction of the Taan Fiord 2015 tsunami event. Engineering Geology, 2021, 294, 106384.	6.3	15
15	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
16	A 4000-year debrisÂflow record based on amphibious investigations of fan delta activity in Plansee (Austria, Eastern Alps). Earth Surface Dynamics, 2021, 9, 1481-1503.	2.4	8
17	Land-use evolution in the catchment of Lake Murten, Switzerland. Quaternary Science Reviews, 2020, 230, 106154.	3.0	12
18	Geomorphology and event-stratigraphy of recent mass-movement processes in Lake Hallstatt (UNESCO) Tj ETQq0 0 0 rgBT /Overlock 10 405-426.	1.3	7

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19	Isotopic and sedimentary signature of megathrust ruptures along the Japan subduction margin. Marine Geology, 2020, 428, 106283.	2.1	22
20	Morphology and spatio-temporal distribution of lacustrine mass-transport deposits in WÃ¶rthersee, Eastern Alps, Austria. Geological Society Special Publication, 2020, 500, 235-254.	1.3	12
21	A database of potential paleoseismic evidence in Switzerland. Journal of Seismology, 2020, 24, 247-262.	1.3	18
22	Evaluating the sealing potential of young and thin mass-transport deposits: Lake Villarrica, Chile. Geological Society Special Publication, 2020, 500, 129-146.	1.3	5
23	Multivariate Statistical and Multiproxy Constraints on Earthquakeâ€Triggered Sediment Remobilization Processes in the Central Japan Trench. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008861.	2.5	21
24	The 1958 Lituya Bay tsunami â€“ pre-event bathymetry reconstruction and 3D numerical modelling utilising the computational fluid dynamics software Flow-3D. Natural Hazards and Earth System Sciences, 2020, 20, 2255-2279.	3.6	16
25	Quantitative characterization of subaqueous landslides in Lake Zurich (Switzerland) based on a high-resolution bathymetric dataset. Geological Society Special Publication, 2019, 477, 399-412.	1.3	10
26	Earthquake Impact on Active Margins: Tracing Surficial Remobilization and Seismic Strengthening in a Slope Sedimentary Sequence. Geophysical Research Letters, 2019, 46, 6015-6023.	4.0	32
27	OH defects in quartz as a provenance tool: Application to fluvial and deep marine sediments from SW Japan. Sedimentary Geology, 2019, 388, 66-80.	2.1	13
28	Megathrust earthquake drives drastic organic carbon supply to the hadal trench. Scientific Reports, 2019, 9, 1553.	3.3	58
29	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. Frontiers in Earth Science, 2019, 7, .	1.8	51
30	Roman-driven cultural eutrophication of Lake Murten, Switzerland. Earth and Planetary Science Letters, 2019, 505, 110-117.	4.4	42
31	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
32	Depositional constraints and diagenetic pathways controlling petrophysics of Middle Miocene shallow-water carbonate reservoirs (Leitha limestones), Central Paratethys, Austria-Hungary. Marine and Petroleum Geology, 2018, 91, 586-598.	3.3	14
33	Tectonically-triggered sediment and carbon export to the Hadal zone. Nature Communications, 2018, 9, 121.	12.8	75
34	Subaqueous landslide-triggered tsunami hazard for Lake Zurich, Switzerland. Swiss Journal of Geosciences, 2018, 111, 353-371.	1.2	14
35	A subaqueous hazard map for earthquake-triggered landslides in Lake Zurich, Switzerland. Natural Hazards, 2018, 90, 51-78.	3.4	20
36	Larger earthquakes recur more periodically: New insights in the megathrust earthquake cycle from lacustrine turbidite records in south-central Chile. Earth and Planetary Science Letters, 2018, 481, 9-19.	4.4	65

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37	Three-dimensional mapping and kinematic characterization of mass transport deposits along the outer Kumano Basin and Nankai accretionary wedge, southwest Japan. Progress in Earth and Planetary Science, 2018, 5, .	3.0	15
38	Late Glacial and Holocene sedimentary infill of Lake Mondsee (Eastern Alps, Austria) and historical rockfall activity revealed by reflection seismics and sediment core analysis. Austrian Journal of Earth Sciences, 2018, 111, 111-134.	0.5	6
39	Lacustrine turbidites produced by surficial slope sediment remobilization: A mechanism for continuous and sensitive turbidite paleoseismic records. Marine Geology, 2017, 384, 159-176.	2.1	71
40	Probabilistic stability evaluation and seismic triggering scenarios of submerged slopes in Lake Zurich (Switzerland). Geo-Marine Letters, 2017, 37, 241-258.	1.1	28
41	Lake-sediment based paleoseismology: Limitations and perspectives from the Swiss Alps. Quaternary Science Reviews, 2017, 168, 1-18.	3.0	63
42	The influence of overpressure and focused fluid flow on subaquatic slope stability in a formerly glaciated basin: Lake Villarrica (South-Central Chile). Marine Geology, 2017, 383, 35-54.	2.1	20
43	Seafloor Displacement After the 2011 Tohokuâ€oki Earthquake in the Northern Japan Trench Examined by Repeated Bathymetric Surveys. Geophysical Research Letters, 2017, 44, 11,833.	4.0	35
44	Subaquatic paleoseismology: records of large Holocene earthquakes in marine and lacustrine sediments. Marine Geology, 2017, 384, 1-3.	2.1	12
45	Stratigraphic signatures of forearc basin formation mechanisms. Geochemistry, Geophysics, Geosystems, 2017, 18, 2388-2410.	2.5	13
46	Internal deformation of a muddy gravity flow and its interaction with the seafloor (site C0018 of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	5.4	14
47	Possible climate preconditioning on submarine landslides along a convergent margin, Nankai Trough (NE Pacific). Progress in Earth and Planetary Science, 2017, 4, .	3.0	18
48	Longâ€term pockmark maintenance by fluid seepage and subsurface sediment mobilization â€“ sedimentological investigations in Lake NeuchÃ¢tel. Sedimentology, 2016, 63, 1168-1186.	3.1	8
49	Documenting large earthquakes similar to the 2011 Tohoku-oki earthquake from sediments deposited in the Japan Trench over the past 1500 years. Earth and Planetary Science Letters, 2016, 445, 48-56.	4.4	78
50	Impact of sedimentation on evolution of accretionary wedges: Insights from high-resolution thermomechanical modeling. Tectonics, 2016, 35, 2828-2846.	2.8	15
51	Sediment mobilization deposits from episodic subsurface fluid flowâ€”A new tool to reveal long-term earthquake records?. Geology, 2016, 44, 243-246.	4.4	13
52	Large Mass Transport Deposits in Kumano Basin, Nankai Trough, Japan. Advances in Natural and Technological Hazards Research, 2016, , 371-379.	1.1	13
53	Giant lacustrine pockmarks with subaqueous groundwater discharge and subsurface sediment mobilization. Geophysical Research Letters, 2015, 42, 3465-3473.	4.0	33
54	Deep subsurface carbon cycling in the <scp>N</scp>ankai <scp>T</scp>rough (Japan)â€”Evidence of tectonically induced stimulation of a deep microbial biosphere. Geochemistry, Geophysics, Geosystems, 2015, 16, 3257-3270.	2.5	9

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55	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. International Journal of Earth Sciences, 2015, 104, 1439-1457.	1.8	46
56	Identification of the static backstop and its influence on the evolution of the accretionary prism in the Nankai Trough. Earth and Planetary Science Letters, 2015, 431, 15-25.	4.4	49
57	Evolution of tectono-sedimentary systems in the Kumano Basin, Nankai Trough forearc. Marine and Petroleum Geology, 2015, 67, 604-616.	3.3	69
58	Flow dynamics of Nankai Trough submarine landslide inferred from internal deformation using magnetic fabric. Geochemistry, Geophysics, Geosystems, 2014, 15, 4079-4092.	2.5	14
59	Assessing the internal character, reservoir potential, and seal competence of mass-transport deposits using seismic texture: A geophysical and petrophysical approach. AAPG Bulletin, 2014, 98, 793-824.	1.5	49
60	New constraints on oceanographic vs. seismic control on submarine landslide initiation: a geotechnical approach off Uruguay and northern Argentina. Geo-Marine Letters, 2014, 34, 399-417.	1.1	18
61	Mid-Quaternary decoupling of sediment routing in the Nankai Forearc revealed by provenance analysis of turbiditic sands. International Journal of Earth Sciences, 2014, 103, 1141-1161.	1.8	24
62	Lacustrine turbidites as a tool for quantitative earthquake reconstruction: New evidence for a variable rupture mode in south central Chile. Journal of Geophysical Research: Solid Earth, 2014, 119, 1607-1633.	3.4	175
63	Erosional features as indicators of thrust fault activity (Nankai Trough, Japan). Marine Geology, 2014, 356, 5-18.	2.1	29
64	Submarine Slope Stability Assessment of the Central Mediterranean Continental Margin: The Gela Basin. Advances in Natural and Technological Hazards Research, 2014, , 225-236.	1.1	11
65	Evidence for Mass Transport Deposits at the IODP JFAST-Site in the Japan Trench. Advances in Natural and Technological Hazards Research, 2014, , 33-43.	1.1	7
66	Mass Wasting Along Atlantic Continental Margins: A Comparison Between NW-Africa and the de la Plata River Region (Northern Argentina and Uruguay). Advances in Natural and Technological Hazards Research, 2014, , 459-469.	1.1	5
67	Integrated Stratigraphic and Morphological Investigation of the Twin Slide Complex Offshore Southern Sicily. Advances in Natural and Technological Hazards Research, 2014, , 583-594.	1.1	4
68	Characteristics of Magnetic Fabrics in Mass Transport Deposits in the Nankai Trough Trench Slope, Japan. Advances in Natural and Technological Hazards Research, 2014, , 649-658.	1.1	5
69	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
70	High-Resolution Studies of Mass Transport Deposits: Outcrop Perspective for Understanding Modern Submarine Slope Failure and Associated Natural Hazards. , 2014, , 209-213.		2
71	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
72	Introduction: Landslides in Coastal and Submarine Environments. , 2014, , 545-548.		0

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73	A slump in the trench: Tracking the impact of the 2011 Tohoku-Oki earthquake. Geology, 2013, 41, 935-938.	4.4	73
74	Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. Nature Geoscience, 2013, 6, 647-651.	12.9	105
75	Lake sediments as natural seismographs: A compiled record of Late Quaternary earthquakes in Central Switzerland and its implication for Alpine deformation. Sedimentology, 2013, 60, 319-341.	3.1	123
76	Submarine Mass Movements and Their Consequences. , 2012, , 1-12.		12
77	A hypothesis of the Senoumi submarine megaslide in Suruga Bay in Japanâ€"based on the undrained dynamic-loading ring shear tests and computer simulation. Landslides, 2012, 9, 439-455.	5.4	48
78	Seismogenic zone temperatures and heat-flow anomalies in the To-nankai margin segment based on temperature data from IODP expedition 333 and thermal model. Earth and Planetary Science Letters, 2012, 349-350, 171-185.	4.4	26
79	Detailed Observation of Topography and Geologic Architecture of a Submarine Landslide Scar in a Toe of an Accretionary Prism. , 2012, , 301-309.		3
80	Pore Water Geochemistry as a Tool for Identifying and Dating Recent Mass-Transport Deposits. , 2012, , 87-97.		5
81	Scientific Drilling. Scientific Drilling, 2012, , .	0.6	2
82	Spatial and temporal evolution of the megasplay fault in the Nankai Trough. Geochemistry, Geophysics, Geosystems, 2011, 12, .	2.5	88
83	An interdisciplinary investigation of a recent submarine mass transport deposit at the continental margin off Uruguay. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	32
84	Submarine landslide potential near the megasplay fault at the Nankai subduction zone. Earth and Planetary Science Letters, 2011, 312, 453-462.	4.4	28
85	Slumping and mass transport deposition in the Nankai fore arc: Evidence from IODP drilling and 3â€Ð reflection seismic data. Geochemistry, Geophysics, Geosystems, 2011, 12, .	2.5	103
86	Mapping basin-wide subaquatic slope failure susceptibility as a tool to assess regional seismic and tsunami hazards. Marine Geophysical Researches, 2011, 32, 331-347.	1.2	64
87	Sediment dynamics and geohazards off Uruguay and the de la Plata River region (northern Argentina) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	68
88	Episodic seafloor mud brecciation due to great subduction zone earthquakes. Geology, 2011, 39, 919-922.	4.4	43
89	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. Geology, 2010, 38, 851-854.	4.4	33
90	Reconstruction of retreating mass wasting in response to progressive slope steepening of the northeastern Cretan margin, eastern Mediterranean. Marine Geology, 2010, 271, 44-54.	2.1	10

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91	Slope failure repetition in active margin environments: Constraints from submarine landslides in the Hellenic fore arc, eastern Mediterranean. Journal of Geophysical Research, 2010, 115, .	3.3	33
92	Advanced Dynamic Soil Testing â€" Introducing the New Marum Dynamic Triaxial Testing Device. , 2010, , 31-41.		10
93	Origin and evolution of a splay fault in the Nankai accretionary wedge. Nature Geoscience, 2009, 2, 648-652.	12.9	177
94	New evidence for massive gravitational mass-transport deposits in the southern Cretan Sea, eastern Mediterranean. Marine Geology, 2009, 263, 97-107.	2.1	17
95	Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	65
96	Late Pleistocene earthquakeâ€triggered moraine dam failure and outburst of Lake Zurich, Switzerland. Journal of Geophysical Research, 2008, 113, .	3.3	25
97	Geotechnical in situ characterization of subaquatic slopes: The role of pore pressure transients versus frictional strength in landslide initiation. Geophysical Research Letters, 2007, 34, .	4.0	48
98	Quantifying subaqueous slope stability during seismic shaking: Lake Lucerne as model for ocean margins. Marine Geology, 2007, 240, 77-97.	2.1	107
99	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
100	Magnitudes and source areas of large prehistoric northern Alpine earthquakes revealed by slope failures in lakes. Geology, 2006, 34, 1005.	4.4	131
101	Erosional processes, topographic length-scales and geomorphic evolution in arid climatic environments: the â€˜Lluta collapseâ€™, northern Chile. International Journal of Earth Sciences, 2005, 94, 433-446.	1.8	41
102	IODP Expedition 338: NanTroSEIZE Stage 3: NanTroSEIZE plate boundary deep riser 2. Scientific Drilling, 0, 17, 1-12.	0.6	34
103	Data report: permeability, compressibility, stress state, and grain size of shallow sediments from Sites C0004, C0006, C0007, and C0008 of the Nankai accretionary complex. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	5
104	Expedition 338 summary. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	23
105	Site C0002. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	32
106	Site C0018. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	5
107	Site C0021. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	7
108	Data Report: Carbon and Oxygen Isotope Geochemistry along a Subducting Pelagic Section offshore Costa Rica (ODP Legs 170 and 205). , 0, , .		2

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109	IODP Expedition 333: Return to Nankai Trough Subduction Inputs Sites and Coring of Mass Transport Deposits. Scientific Drilling, 0, 14, 4-17.	0.6	10
110	Hipercorig â€“ an innovative hydraulic coring system recovering over 60â€‰m long sediment cores from deep perialpine lakes. Scientific Drilling, 0, 28, 29-41.	0.6	5
111	Site C0022. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	5
112	IODP workshop: tracking the Tsunamigenic slips across and along the Japan Trench (JTRACK). Scientific Drilling, 0, 19, 27-32.	0.6	2
113	Site C0025. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
114	Site C0024. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	1