Michael S Steckler

List of Publications by Year
in descending order

59 papers	5,219 citations	117453 34 h-index	161609 54 g-index
63 all docs	63 docs citations	63 times ranked	4142 citing authors

#	Article	IF	Citations
1	Subsidence of the Atlantic-type continental margin off New York. Earth and Planetary Science Letters, 1978, 41, 1-13.	1.8	739
2	Thermal consequences of lithospheric extension: Pure and simple. Tectonics, 1988, 7, 213-234.	1.3	254
3	Flood risk of natural and embanked landscapes on the Gangesâ€“Brahmaputra tidal delta plain. Nature Climate Change, 2015, 5, 153-157.	8.1	252
4	Uplift and extension at the Gulf of Suez: indications of induced mantle convection. Nature, 1985, 317, 135-139.	13.7	235
5	Subsidence in the gulf of suez: implications for rifting and plate kinematics. Tectonophysics, 1988, 153, 249-270.	0.9	226
6	Lithospheric strength variations as a control on new plate boundaries: examples from the northern Red Sea region. Earth and Planetary Science Letters, 1986, 79, 120-132.	1.8	220
7	Controls on facies distribution and stratigraphic preservation in the Gangesâ€“Brahmaputra delta sequence. Sedimentary Geology, 2003, 155, 301-316.	1.0	209
8	Locked and loading megathrust linked to active subduction beneath the Indo-Burman Ranges. Nature Geoscience, 2016, 9, 615-618.	5.4	203
9	Erosional processes and paleo-environmental changes in the Western Gulf of Lions (SW France) during the Messinian Salinity Crisis. Marine Geology, 2005, 217, 1-30.	0.9	189
10	Clinoform development by advection-diffusion of suspended sediment: Modeling and comparison to natural systems. Journal of Geophysical Research, 1998, 103, 24141-24157.	3.3	179
11	Collision of the Gangesâ€“Brahmaputra Delta with the Burma Arc: Implications for earthquake hazard. Earth and Planetary Science Letters, 2008, 273, 367-378.	1.8	179
12	Reconstruction of Tertiary progradation and clinoform development on the New Jersey passive margin by 2-D backstripping. Marine Geology, 1999, 154, 399-420.	0.9	176
13	Geochemical and hydrogeological contrasts between shallow and deeper aquifers in two villages of Araihazar, Bangladesh: Implications for deeper aquifers as drinking water sources. Geochimica Et Cosmochimica Acta, 2005, 69, 5203-5218.	1.6	169
14	Climatic and tectonic control on the Cenozoic evolution of the West African margin. Marine Geology, 2001, 178, 63-80.	0.9	146
15	The role of the sediment load in sequence stratigraphy: The influence of flexural isostasy and compaction. Journal of Geophysical Research, 1991, 96, 6931-6949.	3.3	118
16	Long-term thermo-mechanical properties of the continental lithosphere. Nature, 1983, 304, 250-253.	13.7	110
17	Fission-track analysis of basement apatites at the western margin of the Gulf of Suez rift, Egypt: evidence for synchroneity of uplift and subsidence. Earth and Planetary Science Letters, 1989, 94, 316-328.	1.8	107
18	InSAR measurements of compaction and subsidence in the Gangesâ€Brahmaputra Delta, Bangladesh. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1768-1781.	1.0	102

#	Article	IF	Citations
19	Plioâ€“Quaternary prograding clinoform wedges of the western Gulf of Lion continental margin (NW) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	100
20	Modeling Earth deformation from monsoonal flooding in Bangladesh using hydrographic, GPS, and Gravity Recovery and Climate Experiment (GRACE) data. Journal of Geophysical Research, 2010, 115, .	3.3	97
21	Conrad deep: a new northern Red Sea deep. Earth and Planetary Science Letters, 1986, 78, 18-32.	1.8	84
22	High tsunami frequency as a result of combined strike-slip faulting and coastal landslides. Nature Geoscience, 2010, 3, 783-788.	5.4	77
23	Forearc extension and slow rollback of the Calabrian Arc from GPS measurements. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	77
24	Effects of tectonic deformation and sea level on river path selection: Theory and application to the Ganges-Brahmaputra-Meghna River Delta. Journal of Geophysical Research F: Earth Surface, 2015, 120, 671-689.	1.0	61
25	Active deformation and shallow structure of the Wagner, Consag, and DelfÃn Basins, northern Gulf of California, Mexico. Journal of Geophysical Research, 2003, 108, .	3.3	60
26	The effect of sedimentary cover on the flexural strength of continental lithosphere. Nature, 1997, 389, 476-479.	13.7	57
27	Crustal structure and tectonics of Bangladesh: New constraints from inversion of receiver functions. Tectonophysics, 2016, 680, 99-112.	0.9	52
28	Crustal structure in the Southern Apennines from teleseismic receiver functions. Geology, 2008, 36, 155.	2.0	51
29	Slip-partitioning above a shallow, weak dÃ©collement beneath the Indo-Burman accretionary prism. Earth and Planetary Science Letters, 2018, 503, 17-28.	1.8	46
30	Pattern of hydrothermal circulation within the Newark basin from fission-track analysis. Geology, 1993, 21, 735.	2.0	44
31	Controls on erosional retreat of the uplifted rift flanks at the Gulf of Suez and northern Red Sea. Journal of Geophysical Research, 1994, 99, 12159-12173.	3.3	44
32	Luminescence dating of delta sediments: Novel approaches explored for the Ganges-Brahmaputra-Meghna Delta. Quaternary Geochronology, 2017, 41, 97-111.	0.6	40
33	Spectroscopy of sediments in the Gangesâ€“Brahmaputra delta: Spectral effects of moisture, grain size and lithology. Remote Sensing of Environment, 2009, 113, 342-361.	4.6	39
34	Pattern of mantle thinning from subsidence and heat flow measurements in the Gulf of Suez: Evidence for the rotation of Sinai and along-strike flow from the Red Sea. Tectonics, 1998, 17, 903-920.	1.3	36
35	Uniform basin growth over the last 500ka, North Anatolian Fault, Marmara Sea, Turkey. Tectonophysics, 2012, 518-521, 1-16.	0.9	34
36	Subsidence and basin modeling at the U.S. Atlantic passive margin. , 0, , 399-416.		34

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37	Imaging the subducted slab under the Calabrian Arc, Italy, from receiver function analysis. Lithosphere, 2009, 1, 131-138.	0.6	33
38	Global Risks and Research Priorities for Coastal Subsidence. Eos, 2016, 97, .	0.1	32
39	Early Mesozoic rift basins of eastern North America and their gravity anomalies: The role of detachments during extension. Tectonics, 1988, 7, 447-462.	1.3	30
40	Synthesis of the distribution of subsidence of the lower Ganges-Brahmaputra Delta, Bangladesh. Earth-Science Reviews, 2022, 224, 103887.	4.0	26
41	Continental Transform Basins: Why Are They Asymmetric?. Eos, 2010, 91, 29-30.	0.1	25
42	Migration imaging and forward modeling of microseismic noise sources near southern Italy. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	23
43	Integrating geochronologic and instrumental approaches across the Bengal Basin. Earth Surface Processes and Landforms, 2020, 45, 56-74.	1.2	18
44	Probing the sources of ambient seismic noise near the coasts of southern Italy. Geophysical Research Letters, 2007, 34, .	1.5	17
45	Microatolls document the 1762 and prior earthquakes along the southeast coast of Bangladesh. Tectonophysics, 2018, 745, 196-213.	0.9	17
46	Modeling the Sedimentology and Stratigraphy of Continental Margins. Oceanography, 1996, 9, 183-188.	0.5	16
47	Modeling of sequence geometry north of Gargano Peninsula by changing sediment pathways in the Adriatic Sea. Continental Shelf Research, 2007, 27, 526-541.	0.9	15
48	The Long-Term Stratigraphic Record on Continental Margins. , 0, , 381-458.		11
49	Seismic structure of the southern Apennines as revealed by waveform modelling of regional surface waves. Geophysical Journal International, 2009, 178, 1473-1492.	1.0	9
50	Provenance Shifts During Neogene Brahmaputra Delta Progradation Tied to Coupled Climate and Tectonic Change in the Eastern Himalaya. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC010026.	1.0	9
51	High-Resolution Sequence Stratigraphic Modeling 1<subtitle>The Interplay of Sedimentation, Erosion, and Subsidence</subtitle>. , 1999, , .		7
52	High-Resolution Sequence Stratigraphic Modeling 2<subtitle>Effects of Sedimentation Processes</subtitle>. , 1999, , .		7
53	Evidence for formation of a flexural backarc basin by compression and crustal thickening in the central Alaska Peninsula. Geology, 1988, 16, 1147.	2.0	6
54	Oneâ€sided transform basins and â€œinverted curtainsâ€• Implications for releasing bends along strikeâ€slip faults. Tectonics, 2011, 30, .	1.3	6

#	Article	IF	Citations
55	Flexural deformation controls on Late Quaternary sediment dispersal in the Garoâ€Rajmahal Gap, NW Bengal Basin. Basin Research, 2020, 32, 1242-1260.	1.3	6
56	Prediction of Margin Stratigraphy. , 0, , 459-529.		5
57	The Wicked Problem of Earthquake Hazard in Developing Countries. Eos, 2018, 99, .	0.1	5
58	Neogene shallow-marine and fluvial sediment dispersal, burial, and exhumation in the ancestral Brahmaputra delta: Indo-Burman Ranges, India. Journal of Sedimentary Research, 2020, 90, 1244-1263.	0.8	5
59	Locked and loading megathrust linked to active subduction beneath the Indo-Burman Ranges. , 0, .		1