

Kyle M Straub

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,160
citations

257450

24
h-index

315739

38
g-index

44
all docs

44
docs citations

44
times ranked

1608
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphodynamic limits to environmental signal propagation across landscapes and into strata. <i>Nature Communications</i> , 2022, 13, 292.	12.8	7
2	Marsh Sedimentation Controls Delta Top Morphology, Slope, and Mass Balance. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
3	Non-Monotonic Floodplain Responses to Changes in Flooding Intensity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006310.	2.8	8
4	Comparing Aggradation, Superelevation, and Avulsion Frequency of Submarine and Fluvial Channels. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	28
5	Flow Loss in Deltaic Distributaries: Impacts on Channel Hydraulics, Morphology, and Stability. <i>Water Resources Research</i> , 2020, 56, e2019WR026463.	4.2	8
6	Morphodynamic Hierarchy and the Fabric of the Sedimentary Record. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087921.	4.0	41
7	Buffered, Incomplete, and Shredded: The Challenges of Reading an Imperfect Stratigraphic Record. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005079.	2.8	64
8	A Stratigraphic Framework for the Preservation and Shredding of Environmental Signals. <i>Geophysical Research Letters</i> , 2019, 46, 5837-5845.	4.0	24
9	Time Not Our Time: Physical Controls on the Preservation and Measurement of Geologic Time. <i>Annual Review of Earth and Planetary Sciences</i> , 2018, 46, 409-438.	11.0	65
10	Some signals are not the same as they appear: How do erosional landscapes transform tectonic history into sediment flux records?. <i>Geology</i> , 2018, 46, 407-410.	4.4	16
11	Sediment Storage Partitioning in Alluvial Stratigraphy: The Influence of Discharge Variability. <i>Journal of Sedimentary Research</i> , 2018, 88, 717-726.	1.6	17
12	Geomorphic stasis and spatiotemporal scales of stratigraphic completeness. <i>Geology</i> , 2018, 46, 311-314.	4.4	22
13	Identifying autogenic sedimentation in fluvial-deltaic stratigraphy: Evaluating the effect of outcrop-quality data on the compensation statistic. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 91-113.	2.8	24
14	Scaling the Response of Deltas To Relative-Sea-Level Cycles By Autogenic Space and Time Scales: A Laboratory Study. <i>Journal of Sedimentary Research</i> , 2017, 87, 817-837.	1.6	10
15	Autogenic geomorphic processes determine the resolution and fidelity of terrestrial paleoclimate records. <i>Science Advances</i> , 2017, 3, e1700683.	10.3	43
16	Autogenic Sedimentation in Clastic Stratigraphy. <i>Annual Review of Earth and Planetary Sciences</i> , 2017, 45, 681-709.	11.0	100
17	Influence of Sediment Cohesion on Deltaic Morphodynamics and Stratigraphy Over Basin-Filling Time Scales. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1808-1826.	2.8	12
18	Connecting the backwater hydraulics of coastal rivers to fluvio-deltaic sedimentology and stratigraphy. <i>Geology</i> , 2016, 44, 979-982.	4.4	65

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19	Storage thresholds for relative sea-level signals in the stratigraphic record. <i>Geology</i> , 2016, 44, 179-182.	4.4	59
20	Influence of sediment cohesion on deltaic shoreline dynamics and bulk sediment retention: A laboratory study. <i>Geophysical Research Letters</i> , 2015, 42, 9808-9815.	4.0	36
21	Experimental Investigation of Sediment-Dominated Vs. Tectonics-Dominated Sediment Transport Systems In Subsiding Basins. <i>Journal of Sedimentary Research</i> , 2014, 83, 1162-1180.	1.6	18
22	Influence of growth faults on coastal fluvial systems: Examples from the late Miocene to Recent Mississippi River Delta. <i>Sedimentary Geology</i> , 2014, 301, 120-132.	2.1	33
23	Influence of water and sediment supply on the long-term evolution of alluvial fans and deltas: Statistical characterization of basin-filling sedimentation patterns. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1602-1616.	2.8	27
24	Influence of water and sediment supply on the stratigraphic record of alluvial fans and deltas: Process controls on stratigraphic completeness. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 625-637.	2.8	43
25	Rapid and widespread response of the Lower Mississippi River to eustatic forcing during the last glacial-interglacial cycle: Reply. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 1375-1375.	3.3	0
26	Spatial variations in the composition of turbidites due to hydrodynamic fractionation. <i>Geophysical Research Letters</i> , 2013, 40, 3919-3923.	4.0	42
27	Rapid and widespread response of the Lower Mississippi River to eustatic forcing during the last glacial-interglacial cycle. <i>Bulletin of the Geological Society of America</i> , 2012, 124, 690-704.	3.3	51
28	Quantifying the Hierarchical Organization of Compensation In Submarine Fans Using Surface Statistics. <i>Journal of Sedimentary Research</i> , 2012, 82, 889-898.	1.6	79
29	Prevalence of exponential bed thickness distributions in the stratigraphic record: Experiments and theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
30	Architecture of an Aggradational Tributary Submarine-Channel Network on the Continental Slope Offshore Brunei Darussalam. , 2012, , 13-30.		14
31	Erosional and Depositional Features of Glacial Meltwater Discharges on the Eastern Canadian Continental Margin. , 2012, , 61-80.		13
32	Space-time dynamics of depositional systems: Experimental evidence and theoretical modeling of heavy-tailed statistics. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	63
33	Quantifying the influence of channel sinuosity on the depositional mechanics of channelized turbidity currents: A laboratory study. <i>Marine and Petroleum Geology</i> , 2011, 28, 744-760.	3.3	60
34	Scale-dependent compensational stacking: An estimate of autogenic time scales in channelized sedimentary deposits. <i>Geology</i> , 2011, 39, 811-814.	4.4	116
35	The "unreasonable effectiveness" of stratigraphic and geomorphic experiments. <i>Earth-Science Reviews</i> , 2009, 97, 1-43.	9.1	399
36	Growth laws for channel networks incised by groundwater flow. <i>Nature Geoscience</i> , 2009, 2, 193-196.	12.9	88

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37	Compensational Stacking of Channelized Sedimentary Deposits. <i>Journal of Sedimentary Research</i> , 2009, 79, 673-688.	1.6	175
38	Constructional Canyons Built by Sheet-Like Turbidity Currents: Observations from Offshore Brunei Darussalam. <i>Journal of Sedimentary Research</i> , 2009, 79, 24-39.	1.6	49
39	Quantifying the morphology and growth of levees in aggrading submarine channels. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	49
40	Interactions between turbidity currents and topography in aggrading sinuous submarine channels: A laboratory study. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 368-385.	3.3	123
41	Channel network scaling laws in submarine basins. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	18
42	Morphodynamics and Stratigraphic Architecture of Shelf-Edge Deltas Subject to Constant vs. Dynamic Environmental Forcings: A Laboratory Study. <i>Frontiers in Earth Science</i> , 0, 7, .	1.8	8