Jeffrey A Nittrouer

List of Publications by Year
in descending order

47 papers	2,160 citations	279798 23 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	1517 citing authors

#	Article	IF	Citations
1	Impacts of the dam-orientated water-sediment regulation scheme on the lower reaches and delta of the Yellow River (Huanghe): A review. Global and Planetary Change, 2017, 157, 93-113.	3.5	208
2	Spatial and temporal trends for water-flow velocity and bed-material sediment transport in the lower Mississippi River. Bulletin of the Geological Society of America, 2012, 124, 400-414.	3.3	167
3	Backwater and river plume controls on scour upstream of river mouths: Implications for fluvioâ€deltaic morphodynamics. Journal of Geophysical Research, 2012, 117, .	3.3	146
4	Bedform transport rates for the lowermost Mississippi River. Journal of Geophysical Research, 2008, 113, .	3.3	139
5	Backwater controls of avulsion location on deltas. Geophysical Research Letters, 2012, 39, .	4.0	139
6	Sand as a stable and sustainable resource for nourishing the Mississippi River delta. Nature Geoscience, 2014, 7, 350-354.	12.9	132
7	Testing morphodynamic controls on the location and frequency of river avulsions on fans versus deltas: Huanghe (Yellow River), China. Geophysical Research Letters, 2014, 41, 7882-7890.	4.0	103
8	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. Nature Geoscience, 2012, 5, 534-537.	12.9	100
9	Stepwise morphological evolution of the active Yellow River (Huanghe) delta lobe (1976â€"2013): Dominant roles of riverine discharge and sediment grain size. Geomorphology, 2017, 292, 115-127.	2.6	91
10	The lowermost Mississippi River: a mixed bedrockâ€alluvial channel. Sedimentology, 2011, 58, 1914-1934.	3.1	84
11	Dunes in the worldâ€™s big rivers are characterized by low-angle lee-side slopes and a complex shape. Nature Geoscience, 2020, 13, 156-162.	12.9	72
12	Punctuated sand transport in the lowermost Mississippi River. Journal of Geophysical Research, 2011, 116, .	3.3	67
13	Mud in rivers transported as flocculated and suspended bed material. Nature Geoscience, 2020, 13, 566-570.	12.9	55
14	The exceptional sediment load of fine-grained dispersal systems: Example of the Yellow River, China. Science Advances, 2017, 3, e1603114.	10.3	50
15	Resilience of River Deltas in the Anthropocene. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005201.	2.8	48
16	Origin of a Preferential Avulsion Node on Lowland River Deltas. Geophysical Research Letters, 2019, 46, 4267-4277.	4.0	39
17	Impacts of Hurricane Storm Surge on Infrastructure Vulnerability for an Evolving Coastal Landscape. Natural Hazards Review, 2018, 19, .	1.5	37
18	Can Reservoir Regulation Along the Yellow River Be a Sustainable Way to Save a Sinking Delta?. Earth's Future, 2020, 8, e2020EF001587.	6.3	34

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19	Entrainment and suspension of sand and gravel. Earth Surface Dynamics, 2020, 8, 485-504.	2.4	32
20	River Morphodynamic Evolution Under Dam-Induced Backwater: An Example from the Po River (Italy). Journal of Sedimentary Research, 2018, 88, 1190-1204.	1.6	31
21	Modeling Deltaic Lobeâ€Building Cycles and Channel Avulsions for the Yellow River Delta, China. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2438-2462.	2.8	30
22	Universal relation with regime transition for sediment transport in fine-grained rivers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 171-176.	7.1	26
23	Cost analysis of water and sediment diversions to optimize land building in the Mississippi River delta. Water Resources Research, 2013, 49, 3388-3405.	4.2	25
24	Sedimentation patterns in the Selenga River delta under changing hydroclimatic conditions. Hydrological Processes, 2018, 32, 278-292.	2.6	24
25	Modeling flow and sediment transport dynamics in the lowermost Mississippi River, Louisiana, USA, with an upstream alluvialâ€bedrock transition and a downstream bedrockâ€alluvial transition: Implications for land building using engineered diversions. Journal of Geophysical Research F: Earth Surface, 2015, 120, 534-563.	2.8	23
26	Predicting Water and Sediment Partitioning in a Delta Channel Network Under Varying Discharge Conditions. Water Resources Research, 2020, 56, e2020WR027199.	4.2	21
27	Controls on gravel termination in seven distributary channels of the Selenga River Delta, Baikal Rift basin, Russia. Bulletin of the Geological Society of America, 2016, 128, 1297-1312.	3.3	20
28	Morphodynamic modeling of fluvial channel fill and avulsion time scales during early Holocene transgression, as substantiated by the incised valley stratigraphy of the Trinity River, Texas. Journal of Geophysical Research F: Earth Surface, 2017, 122, 215-234.	2.8	19
29	Roles of Bank Material in Setting Bankfull Hydraulic Geometry as Informed by the Selenga River Delta, Russia. Water Resources Research, 2019, 55, 827-846.	4.2	19
30	Sediment dynamics across gravel-sand transitions: Implications for river stability and floodplain recycling. Geology, 2020, 48, 468-472.	4.4	18
31	Impact of Artificial Floods on the Quantity and Grain Size of Riverâ€Borne Sediment: A Case Study of a Dam Regulation Scheme in the Yellow River Catchment. Water Resources Research, 2021, 57, e2021WR029581.	4.2	18
32	Amplification of downstream flood stage due to damming of fine-grained rivers. Nature Communications, 2022, 13, .	12.8	18
33	Extended Engelundâ€"Hansen type sediment transport relation for mixtures based on the sand-silt-bed Lower Yellow River, China. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 770-785.	1.7	17
34	Evidence for enhanced fluvial channel mobility and fine sediment export due to precipitation seasonality during the Paleocene-Eocene thermal maximum. Geology, 2022, 50, 116-120.	4.4	14
35	Supplyâ€limited bedform patterns and scaling downstream of a gravelâ€"sand transition. Sedimentology, 2019, 66, 2538-2556.	3.1	12
36	Evolution of a tide-dominated abandoned channel: A case of the abandoned Qingshuigou course, Yellow River. Marine Geology, 2020, 422, 106116.	2.1	10

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37	Transport Processes in the Gulf of Mexico Along the River-Estuary-Shelf-Ocean Continuum: a Review of Research from the Gulf of Mexico Research Initiative. Estuaries and Coasts, 2022, 45, 621-657.	2.2	10
38	Dune-scale cross-strata across the fluvial-deltaic backwater regime: Preservation potential of an autogenic stratigraphic signature. Geology, 2020, 48, 1144-1148.	4.4	9
39	Sedimentary processes at ice sheet groundingâ€zone wedges revealed by outcrops, Washington State (USA). Earth Surface Processes and Landforms, 2019, 44, 1209-1220.	2.5	8
40	Optimized river diversion scenarios promote sustainability of urbanized deltas. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
41	Internal connectivity of meandering rivers: Statistical generalization of channel hydraulic geometry. Water Resources Research, 2015, 51, 7485-7500.	4.2	7
42	Suspended Sedimentâ€Induced Stratification Inferred From Concentration and Velocity Profile Measurements in the Lower Yellow River, China. Water Resources Research, 2022, 58, e2020WR027192.	4.2	7
43	Impacts of Engineered Diversions and Natural Avulsions on Deltaâ€Lobe Stability. Geophysical Research Letters, 2021, 48, e2021GL092438.	4.0	7
44	How canyons evolve by incision into bedrock: Rainbow Canyon, Death Valley National Park, United States. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14730-14737.	7.1	6
45	Infilling Abandoned Deltaic Distributary Channels Through Landward Sediment Transport. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005254.	2.8	6
46	Reply to 'Is sand in the Mississippi River delta a sustainable resource?'. Nature Geoscience, 2014, 7, 852-852.	12.9	3
47	Modeling the infilling process of an abandoned fluvial-deltaic distributary channel: An example from the Yellow River delta, China. Geomorphology, 2020, 361, 107204.	2.6	1