

Kehui Xu

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

5,281
citations

29
h-index

72
g-index

95
ext. papers

6,042
ext. citations

3.6
avg, IF

5.7
L-index

#	Paper	IF	Citations
94	A modeling study of water and sediment flux partitioning through the major passes of Mississippi Birdfoot Delta and their plume structures. <i>Geomorphology</i> , 2022 , 401, 108109	4.3	0
93	Comparing the Yangtze and Mississippi River Deltas in the light of coupled natural-human dynamics: Lessons learned and implications for management. <i>Geomorphology</i> , 2022 , 399, 108075	4.3	2
92	Geomorphologic change and patchy mud infilling in a sandy dredge pit in eastern Ship Shoal, Louisiana shelf, USA. <i>Geomorphology</i> , 2022 , 396, 107983	4.3	0
91	Spatial and Temporal Variations of Water and Sediment Discharges of the Yangtze River (Changjiang) from 1950 to 2018: Erosion of Lake, Channel, and Delta 2022 , 891-915		
90	Geomorphologic and hydrodynamic impacts on sediment transport on the inner Louisiana shelf. <i>Geomorphology</i> , 2021 , 398, 108022	4.3	0
89	Anticipating and Adapting to the Future Impacts of Climate Change on the Health, Security and Welfare of Low Elevation Coastal Zone (LE CZ) Communities in Southeastern USA. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 1196	2.4	0
88	Decreasing land growth and unique seasonal area fluctuations of two newborn Mississippi subdeltas. <i>Geomorphology</i> , 2021 , 378, 107617	4.3	3
87	Late Pleistocene baldcypress (<i>Taxodium distichum</i>) forest deposit on the continental shelf of the northern Gulf of Mexico. <i>Boreas</i> , 2021 , 50, 871-892	2.4	2
86	Different fates of the Yangtze and Mississippi deltaic wetlands under similar riverine sediment decline and sea-level rise. <i>Geomorphology</i> , 2021 , 381, 107646	4.3	7
85	Declining Sediment Discharge in the Yangtze River From 1956 to 2017: Spatial and Temporal Changes and Their Causes. <i>Water Resources Research</i> , 2021 , 57, e2020WR028645	5.4	4
84	Hydrodynamics and sediment dynamics in Barataria Bay, Louisiana, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2021 , 249, 107090	2.9	3
83	Morphodynamic modeling of a low-lying barrier subject to hurricane forcing: The role of backbarrier wetlands. <i>Coastal Engineering</i> , 2021 , 167, 103886	4.8	1
82	Low-latitude control on sea surface temperatures in the middle Okinawa Trough over the last 3.6 kyr. <i>Geo-Marine Letters</i> , 2021 , 41, 1	1.9	
81	Hydrodynamics, sediment transport, and water quality of two contrasting dredge pits on the Louisiana shelf. <i>Continental Shelf Research</i> , 2021 , 230, 104569	2.4	1
80	Provenance and weathering of sediments in the deep basin of the northern South China Sea during the last 38 kyr. <i>Marine Geology</i> , 2021 , 440, 106602	3.3	4
79	Tidal and Storm Impacts on Hydrodynamics and Sediment Dynamics in an Energetic Ebb Tidal Delta. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 810	2.4	3
78	Role of delta-front erosion in sustaining salt marshes under sea-level rise and fluvial sediment decline. <i>Limnology and Oceanography</i> , 2020 , 65, 1990-2009	4.8	27

77	Morphological evolution of a mud-capped dredge pit on the Louisiana shelf: Nonlinear infilling and continuing consolidation. <i>Geomorphology</i> , 2020 , 354, 107030	4.3	10
76	The role of sediment-induced light attenuation on primary production during Hurricane Gustav (2008). <i>Biogeosciences</i> , 2020 , 17, 5043-5055	4.6	3
75	Mass wasting on the Mississippi River subaqueous delta. <i>Earth-Science Reviews</i> , 2020 , 200, 103001	10.2	10
74	Influence of Macrobenthos (<i>Meretrix meretrix</i> Linnaeus) on Erosion-Accretion Processes in Intertidal Flats: A Case Study From a Cultivation Zone. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005345	3.7	4
73	Short- and long-term movement of mudflows of the Mississippi River Delta Front and their known and potential impacts on oil and gas infrastructure. <i>Geological Society Special Publication</i> , 2020 , 500, 587-604	1.7	5
72	A numerical investigation of salinity variations in the Barataria Estuary, Louisiana in connection with the Mississippi River and restoration activities. <i>Estuarine, Coastal and Shelf Science</i> , 2020 , 245, 107021	2.9	3
71	Sediment infilling and geomorphological change of a mud-capped Raccoon Island dredge pit near Ship Shoal of Louisiana shelf. <i>Estuarine, Coastal and Shelf Science</i> , 2020 , 245, 106979	2.9	6
70	A Numerical Investigation of Wave-Supported Gravity Flow During Cold Fronts Over the Atchafalaya Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015269	3.3	4
69	Sediment Transport near Ship Shoal for Coastal Restoration in the Louisiana Shelf: A Model Estimate of the Year 2017-2018. <i>Water (Switzerland)</i> , 2020 , 12, 2212	3	9
68	The Impact of Biophysical Processes on Sediment Transport in the Wax Lake Delta (Louisiana, USA). <i>Water (Switzerland)</i> , 2020 , 12, 2072	3	7
67	Modeling sediment texture of river-deltaic wetlands in the Lower Barataria Bay and Lower Breton Sound, Louisiana, USA. <i>Geo-Marine Letters</i> , 2019 , 39, 161-173	1.9	2
66	Deltaic morphodynamics and stratigraphic evolution of Middle Barataria Bay and Middle Breton Sound regions, Louisiana, USA: Implications for river-sediment diversions. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 224, 20-33	2.9	16
65	Remote impacts of typhoons on the hydrodynamics, sediment transport and bed stability of an intertidal wetland in the Yangtze Delta. <i>Journal of Hydrology</i> , 2019 , 575, 755-766	6	19
64	A review of sediment diversion in the Mississippi River Deltaic Plain. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 225, 106241	2.9	33
63	A Two Decadal (1993-2012) Numerical Assessment of Sediment Dynamics in the Northern Gulf of Mexico. <i>Water (Switzerland)</i> , 2019 , 11, 938	3	10
62	Nitrate reduction rates in sediments experiencing turbulent flow conditions. <i>Ecological Engineering</i> , 2019 , 128, 33-38	3.9	4
61	Sediment Identification Using Machine Learning Classifiers in a Mixed-Texture Dredge Pit of Louisiana Shelf for Coastal Restoration. <i>Water (Switzerland)</i> , 2019 , 11, 1257	3	12
60	A numerical study of sediment dynamics over Sandy Point dredge pit, west flank of the Mississippi River, during a cold front event. <i>Continental Shelf Research</i> , 2019 , 183, 38-50	2.4	11

59	Modeling Sediment Flocculation in Langmuir Turbulence. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 7883-7907	3.3	7
58	Degradation of the plaquemines sub-delta and relative sea-level in eastern Mississippi deltaic coast during late holocene. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 227, 106344	2.9	6
57	Riverine Sediment Contribution to Distal Deltaic Wetlands: Fourleague Bay, LA. <i>Estuaries and Coasts</i> , 2019 , 42, 55-67	2.8	6
56	Modeling hurricane-induced wetland-bay and bay-shelf sediment fluxes. <i>Coastal Engineering</i> , 2018 , 135, 77-90	4.8	19
55	Recent coarsening of sediments on the southern Yangtze subaqueous delta front: A response to river damming. <i>Continental Shelf Research</i> , 2018 , 155, 45-51	2.4	37
54	Characterization and modeling of sediment settling, consolidation, and suspension to optimize coastal Louisiana restoration. <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 203, 137-147	2.9	10
53	Human impacts on sediment in the Yangtze River: A review and new perspectives. <i>Global and Planetary Change</i> , 2018 , 162, 8-17	4.2	104
52	Polynomorph evidence for tropical climate stability in the Gulf of Papua, Papua New Guinea, over the latest marine transgression and highstand (14,500 years BP to today). <i>Quaternary International</i> , 2018 , 467, 277-291	2	
51	Mississippi River subaqueous delta is entering a stage of retrogradation. <i>Marine Geology</i> , 2018 , 400, 12-23	3.3	41
50	Mud-capped dredge pits: An experiment of opportunity for characterizing cohesive sediment transport and slope stability in the northern Gulf of Mexico. <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 208, 161-169	2.9	15
49	Textures, provenances and structures of sediment in the inner shelf south of Shandong Peninsula, western South Yellow Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 212, 153-163	2.9	7
48	The coupling of bay hydrodynamics to sediment transport and its implication in micro-tidal wetland sustainability. <i>Marine Geology</i> , 2018 , 405, 68-76	3.3	10
47	Forces Driving the Morphological Evolution of a Mud-Capped Dredge Pit, Northern Gulf of Mexico. <i>Water (Switzerland)</i> , 2018 , 10, 1001	3	9
46	Impact of Seabed Resuspension on Oxygen and Nitrogen Dynamics in the Northern Gulf of Mexico: A Numerical Modeling Study. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 7237-7263	3.3	17
45	Stratigraphic pollen analysis performed on a late Pleistocene cypress forest preserved on the northern Gulf of Mexico continental shelf. <i>Journal of Quaternary Science</i> , 2018 , 33, 865-870	2.3	3
44	Provenance discrimination of the clay sediment in the western Taiwan Strait and its implication for coastal current variability during the late-Holocene. <i>Holocene</i> , 2017 , 27, 110-121	2.6	13
43	Sub-decadal submarine landslides are important drivers of deltaic sediment flux: Insights from the Mississippi River Delta Front. <i>Geology</i> , 2017 , G38688.1	5	5
42	Erosion potential of the Yangtze Delta under sediment starvation and climate change. <i>Scientific Reports</i> , 2017 , 7, 10535	4.9	19

41	River-sea transitions of sediment dynamics: A case study of the tide-impacted Yangtze River estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 196, 207-216	2.9	23
40	Carbon Dynamics Along a Temperate Fjord-Head Delta: Linkages With Carbon Burial in Fjords. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 3419-3430	3.7	3
39	River-plume sedimentation and ²¹⁰ Pb/ ⁷ Be seabed delivery on the Mississippi River delta front. <i>Geo-Marine Letters</i> , 2017 , 37, 259-272	1.9	12
38	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	3.8	8
37	The roles of resuspension, diffusion and biogeochemical processes on oxygen dynamics offshore of the Rhône River, France: a numerical modeling study. <i>Biogeosciences</i> , 2017 , 14, 1919-1946	4.6	26
36	Co-evolution of wetland landscapes, flooding, and human settlement in the Mississippi River Delta Plain. <i>Sustainability Science</i> , 2016 , 11, 711-731	6.4	93
35	The impact of drying on structure of sedimentary organic matter in wetlands: Probing with native and amended polycyclic aromatic hydrocarbons. <i>Science of the Total Environment</i> , 2016 , 568, 42-51	10.2	13
34	Shelf sediment transport during hurricanes Katrina and Rita. <i>Computers and Geosciences</i> , 2016 , 90, 24-39	4.5	44
33	Implications of Texture and Erodibility for Sediment Retention in Receiving Basins of Coastal Louisiana Diversions. <i>Water (Switzerland)</i> , 2016 , 8, 26	3	35
32	Sediment texture, erodibility, and composition in the Northern Gulf of Mexico and their potential impacts on hypoxia formation. <i>Ocean Dynamics</i> , 2015 , 65, 269-285	2.3	8
31	Clay mineral and grain size studies of sediment provenances and paleoenvironment evolution in the middle Okinawa Trough since 17ka. <i>Marine Geology</i> , 2015 , 366, 49-61	3.3	40
30	NUMERICAL SIMULATIONS OF SEDIMENT DEPOSITION AND EROSION ON LOUISIANA COAST DURING HURRICANE GUSTAV 2015 ,		1
29	Decline of Yangtze River water and sediment discharge: Impact from natural and anthropogenic changes. <i>Scientific Reports</i> , 2015 , 5, 12581	4.9	170
28	Fine sediment mineralogy as a tracer of latest Quaternary sediment delivery to a dynamic continental margin: Pandora Trough, Gulf of Papua, Papua New Guinea. <i>Marine Geology</i> , 2014 , 357, 108-122	3.3	12
27	Downstream sedimentary and geomorphic impacts of the Three Gorges Dam on the Yangtze River. <i>Earth-Science Reviews</i> , 2014 , 138, 469-486	10.2	254
26	Seabed texture and composition changes offshore of Port Royal Sound, South Carolina before and after the dredging for beach nourishment. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 149, 57-67	2.9	15
25	Seabed erodibility variations on the Louisiana continental shelf before and after the 2011 Mississippi River flood. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 149, 283-293	2.9	20
24	Concentrations and sources of polycyclic aromatic hydrocarbons in surface coastal sediments of the northern Gulf of Mexico. <i>Geochemical Transactions</i> , 2014 , 15, 2	3	62

23	Experimental study of cohesive sediment consolidation and resuspension identifies approaches for coastal restoration: Lake Lery, Louisiana. <i>Geo-Marine Letters</i> , 2014 , 34, 499-509	1.9	15
22	Provenance, structure, and formation of the mud wedge along inner continental shelf of the East China Sea: A synthesis of the Yangtze dispersal system. <i>Marine Geology</i> , 2012 , 291-294, 176-191	3.3	172
21	Spatial, Temporal, and Human-Induced Variations in Suspended Sediment Concentration in the Surface Waters of the Yangtze Estuary and Adjacent Coastal Areas. <i>Estuaries and Coasts</i> , 2012 , 35, 1316-1327	2.8	87
20	Dispersal of Mississippi and Atchafalaya sediment on the Texas-Louisiana shelf: Model estimates for the year 1993. <i>Continental Shelf Research</i> , 2011 , 31, 1558-1575	2.4	55
19	50,000 dams later: Erosion of the Yangtze River and its delta. <i>Global and Planetary Change</i> , 2011 , 75, 14-20	4.2	494
18	Rare earth element geochemistry in the inner shelf of the East China Sea and its implication to sediment provenances. <i>Journal of Rare Earths</i> , 2011 , 29, 702-709	3.7	38
17	Temporal trend of precipitation and runoff in major Chinese Rivers since 1951. <i>Global and Planetary Change</i> , 2010 , 73, 219-232	4.2	138
16	Increased contribution of terrigenous supply from Taiwan to the northern South China Sea since 3Ma. <i>Marine Geology</i> , 2010 , 278, 115-121	3.3	67
15	Cold event at 5 500 a BP recorded in mud sediments on the inner shelf of the East China Sea. <i>Chinese Journal of Oceanology and Limnology</i> , 2009 , 27, 975-984		16
14	Yangtze- and Taiwan-derived sediments on the inner shelf of East China Sea. <i>Continental Shelf Research</i> , 2009 , 29, 2240-2256	2.4	187
13	Seasonal variations of sediment discharge from the Yangtze River before and after impoundment of the Three Gorges Dam. <i>Geomorphology</i> , 2009 , 104, 276-283	4.3	333
12	A quantitative assessment of human impacts on decrease in sediment flux from major Chinese rivers entering the western Pacific Ocean. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	69
11	Climatic and anthropogenic factors affecting river discharge to the global ocean, 1951-2000. <i>Global and Planetary Change</i> , 2008 , 62, 187-194	4.2	320
10	Characteristics of Clay Minerals in the Northern South China Sea and Its Implications for Evolution of East Asian Monsoon since Miocene. <i>Journal of China University of Geosciences</i> , 2008 , 19, 23-37		22
9	Flux and fate of small mountainous rivers derived sediments into the Taiwan Strait. <i>Marine Geology</i> , 2008 , 256, 65-76	3.3	127
8	Flux and fate of Yangtze River sediment delivered to the East China Sea. <i>Geomorphology</i> , 2007 , 85, 208-224	4.5	637
7	Changing pattern of accretion/erosion of the modern Yellow River (Huanghe) subaerial delta, China: Based on remote sensing images. <i>Marine Geology</i> , 2006 , 227, 13-30	3.3	229
6	Dam impacts on the Changjiang (Yangtze) River sediment discharge to the sea: The past 55 years and after the Three Gorges Dam. <i>Water Resources Research</i> , 2006 , 42,	5.4	368

5	Yangtze sediment decline partly from Three Gorges Dam. <i>Eos</i> , 2006 , 87, 185	1.5	82
4	Sedimentary features of the Yangtze River-derived along-shelf clinoform deposit in the East China Sea. <i>Continental Shelf Research</i> , 2006 , 26, 2141-2156	2.4	392
3	Climatic and Anthropogenic Impacts on Water and Sediment Discharges from the Yangtze River (Changjiang), 1950-2005. <i>Estuaries and Coasts</i> , 31, 609-626		32
2	A comparative study of the flux and fate of the Mississippi and Yangtze river sediments. <i>Proceedings of the International Association of Hydrological Sciences</i> , 367, 312-319		6
1	Sandy Borrow Area Sedimentation Characteristics and Processes Within South Pelto Dredge Pit on Ship Shoal, Louisiana Shelf, USA. <i>Estuaries and Coasts</i> , 1	2.8	2