Kehui Xu

List of Publications by Year
in descending order

94 papers	6,837 citations	136740 32 h-index	60497 81 g-index
95 all docs	95 docs citations	95 times ranked	4671 citing authors

#	Article	IF	Citations
1	Flux and fate of Yangtze River sediment delivered to the East China Sea. Geomorphology, 2007, 85, 208-224.	1.1	757
2	50,000 dams later: Erosion of the Yangtze River and its delta. Global and Planetary Change, 2011, 75, 14-20.	1.6	600
3	Sedimentary features of the Yangtze River-derived along-shelf clinoform deposit in the East China Sea. Continental Shelf Research, 2006, 26, 2141-2156.	0.9	454
4	Dam impacts on the Changjiang (Yangtze) River sediment discharge to the sea: The past 55 years and after the Three Gorges Dam. Water Resources Research, 2006, 42, .	1.7	435
5	Climatic and anthropogenic factors affecting river discharge to the global ocean, 1951â€“2000. Global and Planetary Change, 2008, 62, 187-194.	1.6	388
6	Seasonal variations of sediment discharge from the Yangtze River before and after impoundment of the Three Gorges Dam. Geomorphology, 2009, 104, 276-283.	1.1	387
7	Downstream sedimentary and geomorphic impacts of the Three Gorges Dam on the Yangtze River. Earth-Science Reviews, 2014, 138, 469-486.	4.0	332
8	Changing pattern of accretion/erosion of the modern Yellow River (Huanghe) subaerial delta, China: Based on remote sensing images. Marine Geology, 2006, 227, 13-30.	0.9	277
9	Decline of Yangtze River water and sediment discharge: Impact from natural and anthropogenic changes. Scientific Reports, 2015, 5, 12581.	1.6	237
10	Yangtze- and Taiwan-derived sediments on the inner shelf of East China Sea. Continental Shelf Research, 2009, 29, 2240-2256.	0.9	214
11	Provenance, structure, and formation of the mud wedge along inner continental shelf of the East China Sea: A synthesis of the Yangtze dispersal system. Marine Geology, 2012, 291-294, 176-191.	0.9	203
12	Temporal trend of precipitation and runoff in major Chinese Rivers since 1951. Global and Planetary Change, 2010, 73, 219-232.	1.6	176
13	Human impacts on sediment in the Yangtze River: A review and new perspectives. Global and Planetary Change, 2018, 162, 8-17.	1.6	176
14	Flux and fate of small mountainous rivers derived sediments into the Taiwan Strait. Marine Geology, 2008, 256, 65-76.	0.9	161
15	Co-evolution of wetland landscapes, flooding, and human settlement in the Mississippi River Delta Plain. Sustainability Science, 2016, 11, 711-731.	2.5	120
16	Spatial, Temporal, and Human-Induced Variations in Suspended Sediment Concentration in the Surface Waters of the Yangtze Estuary and Adjacent Coastal Areas. Estuaries and Coasts, 2012, 35, 1316-1327.	1.0	105
17	Yangtze sediment decline partly from Three Gorges Dam. Eos, 2006, 87, 185.	0.1	95
18	Increased contribution of terrigenous supply from Taiwan to the northern South China Sea since 3Ma. Marine Geology, 2010, 278, 115-121.	0.9	95

#	Article	IF	Citations
19	Concentrations and sources of polycyclic aromatic hydrocarbons in surface coastal sediments of the northern Gulf of Mexico. Geochemical Transactions, 2014, 15, 2.	1.8	86
20	Role of deltaâ€front erosion in sustaining salt marshes under seaâ€level rise and fluvial sediment decline. Limnology and Oceanography, 2020, 65, 1990-2009.	1.6	80
21	A quantitative assessment of human impacts on decrease in sediment flux from major Chinese rivers entering the western Pacific Ocean. Geophysical Research Letters, 2009, 36, .	1.5	77
22	Dispersal of Mississippi and Atchafalaya sediment on the Texasâ€“Louisiana shelf: Model estimates for the year 1993. Continental Shelf Research, 2011, 31, 1558-1575.	0.9	68
23	Recent coarsening of sediments on the southern Yangtze subaqueous delta front: A response to river damming. Continental Shelf Research, 2018, 155, 45-51.	0.9	62
24	Clay mineral and grain size studies of sediment provenances and paleoenvironment evolution in the middle Okinawa Trough since 17ka. Marine Geology, 2015, 366, 49-61.	0.9	59
25	Mississippi River subaqueous delta is entering a stage of retrogradation. Marine Geology, 2018, 400, 12-23.	0.9	59
26	Shelf sediment transport during hurricanes Katrina and Rita. Computers and Geosciences, 2016, 90, 24-39.	2.0	56
27	A review of sediment diversion in the Mississippi River Deltaic Plain. Estuarine, Coastal and Shelf Science, 2019, 225, 106241.	0.9	52
28	Implications of Texture and Erodibility for Sediment Retention in Receiving Basins of Coastal Louisiana Diversions. Water (Switzerland), 2016, 8, 26.	1.2	49
29	Rare earth element geochemistry in the inner shelf of the East China Sea and its implication to sediment provenances. Journal of Rare Earths, 2011, 29, 702-709.	2.5	45
30	Erosion potential of the Yangtze Delta under sediment starvation and climate change. Scientific Reports, 2017, 7, 10535.	1.6	43
31	Climatic and Anthropogenic Impacts on Water and Sediment Discharges from the Yangtze River (Changjiang), 1950â€“2005. , 0, , 609-626.		38
32	The roles of resuspension, diffusion and biogeochemical processes on oxygen dynamics offshore of the RhÃ´ne River, France: a numerical modeling study. Biogeosciences, 2017, 14, 1919-1946.	1.3	37
33	Modeling hurricane-induced wetland-bay and bay-shelf sediment fluxes. Coastal Engineering, 2018, 135, 77-90.	1.7	35
34	River-sea transitions of sediment dynamics: A case study of the tide-impacted Yangtze River estuary. Estuarine, Coastal and Shelf Science, 2017, 196, 207-216.	0.9	32
35	Impact of Seabed Resuspension on Oxygen and Nitrogen Dynamics in the Northern Gulf of Mexico: A Numerical Modeling Study. Journal of Geophysical Research: Oceans, 2018, 123, 7237-7263.	1.0	31
36	Remote impacts of typhoons on the hydrodynamics, sediment transport and bed stability of an intertidal wetland in the Yangtze Delta. Journal of Hydrology, 2019, 575, 755-766.	2.3	30

#	Article	IF	Citations
37	Seabed erodibility variations on the Louisiana continental shelf before and after the 2011 Mississippi River flood. Estuarine, Coastal and Shelf Science, 2014, 149, 283-293.	0.9	27
38	Experimental study of cohesive sediment consolidation and resuspension identifies approaches for coastal restoration: Lake Lery, Louisiana. Geo-Marine Letters, 2014, 34, 499-509.	0.5	25
39	Characteristics of Clay Minerals in the Northern South China Sea and Its Implications for Evolution of East Asian Monsoon since Miocene. Journal of China University of Geosciences, 2008, 19, 23-37.	0.4	24
40	Deltaic morphodynamics and stratigraphic evolution of Middle Barataria Bay and Middle Breton Sound regions, Louisiana, USA: Implications for river-sediment diversions. Estuarine, Coastal and Shelf Science, 2019, 224, 20-33.	0.9	24
41	Declining Sediment Discharge in the Yangtze River From 1956 to 2017: Spatial and Temporal Changes and Their Causes. Water Resources Research, 2021, 57, e2020WR028645.	1.7	23
42	Cold event at 5 500 a BP recorded in mud sediments on the inner shelf of the East China Sea. Chinese Journal of Oceanology and Limnology, 2009, 27, 975-984.	0.7	22
43	Different fates of the Yangtze and Mississippi deltaic wetlands under similar riverine sediment decline and sea-level rise. Geomorphology, 2021, 381, 107646.	1.1	22
44	A numerical study of sediment dynamics over Sandy Point dredge pit, west flank of the Mississippi River, during a cold front event. Continental Shelf Research, 2019, 183, 38-50.	0.9	21
45	Seabed texture and composition changes offshore of Port Royal Sound, South Carolina before and after the dredging for beach nourishment. Estuarine, Coastal and Shelf Science, 2014, 149, 57-67.	0.9	20
46	Provenance discrimination of the clay sediment in the western Taiwan Strait and its implication for coastal current variability during the late-Holocene. Holocene, 2017, 27, 110-121.	0.9	20
47	Mud-capped dredge pits: An experiment of opportunity for characterizing cohesive sediment transport and slope stability in the northern Gulf of Mexico. Estuarine, Coastal and Shelf Science, 2018, 208, 161-169.	0.9	20
48	Mass wasting on the Mississippi River subaqueous delta. Earth-Science Reviews, 2020, 200, 103001.	4.0	20
49	Comparing the Yangtze and Mississippi River Deltas in the light of coupled natural-human dynamics: Lessons learned and implications for management. Geomorphology, 2022, 399, 108075.	1.1	20
50	Provenance and weathering of sediments in the deep basin of the northern South China Sea during the last 38 kyr. Marine Geology, 2021, 440, 106602.	0.9	18
51	Fine sediment mineralogy as a tracer of latest Quaternary sediment delivery to a dynamic continental margin: Pandora Trough, Gulf of Papua, Papua New Guinea. Marine Geology, 2014, 357, 108-122.	0.9	17
52	The impact of drying on structure of sedimentary organic matter in wetlands: Probing with native and amended polycyclic aromatic hydrocarbons. Science of the Total Environment, 2016, 568, 42-51.	3.9	17
53	Characterization and modeling of sediment settling, consolidation, and suspension to optimize coastal Louisiana restoration. Estuarine, Coastal and Shelf Science, 2018, 203, 137-147.	0.9	17
54	Sediment Identification Using Machine Learning Classifiers in a Mixed-Texture Dredge Pit of Louisiana Shelf for Coastal Restoration. Water (Switzerland), 2019, 11, 1257.	1.2	16

#	Article	IF	Citations
55	River-plume sedimentation and 210Pb/7Be seabed delivery on the Mississippi River delta front. Geo-Marine Letters, 2017, 37, 259-272.	0.5	15
56	A Two Decadal (1993â€“2012) Numerical Assessment of Sediment Dynamics in the Northern Gulf of Mexico. Water (Switzerland), 2019, 11, 938.	1.2	15
57	A numerical investigation of salinity variations in the Barataria Estuary, Louisiana in connection with the Mississippi River and restoration activities. Estuarine, Coastal and Shelf Science, 2020, 245, 107021.	0.9	15
58	Modeling Sediment Flocculation in Langmuir Turbulence. Journal of Geophysical Research: Oceans, 2019, 124, 7883-7907.	1.0	14
59	Short- and long-term movement of mudflows of the Mississippi River Delta Front and their known and potential impacts on oil and gas infrastructure. Geological Society Special Publication, 2020, 500, 587-604.	0.8	13
60	Sediment Transport near Ship Shoal for Coastal Restoration in the Louisiana Shelf: A Model Estimate of the Year 2017â€“2018. Water (Switzerland), 2020, 12, 2212.	1.2	13
61	Sediment texture, erodibility, and composition in the Northern Gulf of Mexico and their potential impacts on hypoxia formation. Ocean Dynamics, 2015, 65, 269-285.	0.9	12
62	Influence of Sediment Cohesion on Deltaic Morphodynamics and Stratigraphy Over Basinâ€Filling Time Scales. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1808-1826.	1.0	12
63	Forces Driving the Morphological Evolution of a Mud-Capped Dredge Pit, Northern Gulf of Mexico. Water (Switzerland), 2018, 10, 1001.	1.2	12
64	The coupling of bay hydrodynamics to sediment transport and its implication in micro-tidal wetland sustainability. Marine Geology, 2018, 405, 68-76.	0.9	12
65	Sediment infilling and geomorphological change of a mud-capped Raccoon Island dredge pit near Ship Shoal of Louisiana shelf. Estuarine, Coastal and Shelf Science, 2020, 245, 106979.	0.9	12
66	Morphological evolution of a mud-capped dredge pit on the Louisiana shelf: Nonlinear infilling and continuing consolidation. Geomorphology, 2020, 354, 107030.	1.1	12
67	Influence of Macrobenthos (Meretrix meretrix Linnaeus) on Erosionâ€Accretion Processes in Intertidal Flats: A Case Study From a Cultivation Zone. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005345.	1.3	11
68	The Impact of Biophysical Processes on Sediment Transport in the Wax Lake Delta (Louisiana, USA). Water (Switzerland), 2020, 12, 2072.	1.2	11
69	Hydrodynamics and sediment dynamics in Barataria Bay, Louisiana, USA. Estuarine, Coastal and Shelf Science, 2021, 249, 107090.	0.9	10
70	Textures, provenances and structures of sediment in the inner shelf south of Shandong Peninsula, western South Yellow Sea. Estuarine, Coastal and Shelf Science, 2018, 212, 153-163.	0.9	9
71	Degradation of the plaquemines sub-delta and relative sea-level in eastern Mississippi deltaic coast during late holocene. Estuarine, Coastal and Shelf Science, 2019, 227, 106344.	0.9	9
72	A Numerical Investigation of Waveâ€Supported Gravity Flow During Cold Fronts Over the Atchafalaya Shelf. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015269.	1.0	9

#	Article	IF	Citations
73	Sub-decadal submarine landslides are important drivers of deltaic sediment flux: Insights from the Mississippi River Delta Front. Geology, 0, , G38688.1.	2.0	7
74	Riverine Sediment Contribution to Distal Deltaic Wetlands: Fourleague Bay, LA. Estuaries and Coasts, 2019, 42, 55-67.	1.0	7
75	Decreasing land growth and unique seasonal area fluctuations of two newborn Mississippi subdeltas. Geomorphology, 2021, 378, 107617.	1.1	7
76	Morphodynamic modeling of a low-lying barrier subject to hurricane forcing: The role of backbarrier wetlands. Coastal Engineering, 2021, 167, 103886.	1.7	7
77	The role of sediment-induced light attenuation on primary production during Hurricane Gustav (2008). Biogeosciences, 2020, 17, 5043-5055.	1.3	7
78	Nitrate reduction rates in sediments experiencing turbulent flow conditions. Ecological Engineering, 2019, 128, 33-38.	1.6	6
79	A comparative study of the flux and fate of the Mississippi and Yangtze river sediments. Proceedings of the International Association of Hydrological Sciences, 0, 367, 312-319.	1.0	6
80	Anticipating and Adapting to the Future Impacts of Climate Change on the Health, Security and Welfare of Low Elevation Coastal Zone (LECZ) Communities in Southeastern USA. Journal of Marine Science and Engineering, 2021, 9, 1196.	1.2	6
81	Hydrodynamics, sediment transport, and water quality of two contrasting dredge pits on the Louisiana shelf. Continental Shelf Research, 2021, 230, 104569.	0.9	5
82	A modeling study of water and sediment flux partitioning through the major passes of Mississippi Birdfoot Delta and their plume structures. Geomorphology, 2022, 401, 108109.	1.1	5
83	Carbon Dynamics Along a Temperate Fjordâ€Head Delta: Linkages With Carbon Burial in Fjords. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3419-3430.	1.3	4
84	Tidal and Storm Impacts on Hydrodynamics and Sediment Dynamics in an Energetic Ebb Tidal Delta. Journal of Marine Science and Engineering, 2020, 8, 810.	1.2	4
85	Late Pleistocene baldcypress (Taxodium distichum) forest deposit on the continental shelf of the northern Gulf of Mexico. Boreas, 2021, 50, 871-892.	1.2	4
86	Stratigraphic pollen analysis performed on a late Pleistocene cypress forest preserved on the northern Gulf of Mexico continental shelf. Journal of Quaternary Science, 2018, 33, 865-870.	1.1	4
87	Geomorphologic change and patchy mud infilling in a sandy dredge pit in eastern Ship Shoal, Louisiana shelf, USA. Geomorphology, 2022, 396, 107983.	1.1	4
88	Geomorphic and hydrodynamic impacts on sediment transport on the inner Louisiana shelf. Geomorphology, 2022, 398, 108022.	1.1	4
89	Modeling sediment texture of river-deltaic wetlands in the Lower Barataria Bay and Lower Breton Sound, Louisiana, USA. Geo-Marine Letters, 2019, 39, 161-173.	0.5	3
90	Sandy Borrow Area Sedimentationâ€"Characteristics and Processes Within South Pelto Dredge Pit on Ship Shoal, Louisiana Shelf, USA. Estuaries and Coasts, 0, , 1.	1.0	3

#	Article	IF	Citations
91	NUMERICAL SIMULATIONS OF SEDIMENT DEPOSITION AND EROSION ON LOUISIANA COAST DURING HURRICANE GUSTAV. , 2015, , .		1
92	Palynomorph evidence for tropical climate stability in the Gulf of Papua, Papua New Guinea, over the latest marine transgression and highstand (14,500â€¯years BP to today). Quaternary International, 2018, 467, 277-291.	0.7	1
93	Low-latitude control on sea surface temperatures in the middle Okinawa Trough over the last 3.6 kyr. Geo-Marine Letters, 2021, 41, 1.	0.5	1
94	SEDIMENT INFILLING OF LOUISIANA CONTINENTAL-SHELF DREDGE PITS: A RECORD OF SEDIMENTARY PROCESSES IN THE NORTHERN GULF OF MEXICO. , 2016, , .		1