Wonsuck Kim

List of Publications by Year
in descending order

55 papers	1,825 citations	279798 23 h-index	276875 41 g-index
58 all docs	58 docs citations	58 times ranked	1269 citing authors

#	Article	IF	Citations
1	Natural Processes in Delta Restoration: Application to the Mississippi Delta. Annual Review of Marine Science, 2011, 3, 67-91.	11.6	246
2	Is It Feasible to Build New Land in the Mississippi River Delta?. Eos, 2009, 90, 373-374.	0.1	178
3	Shoreline response to autogenic processes of sediment storage and release in the fluvial system. Journal of Geophysical Research, 2006, 111, .	3.3	93
4	Experimental Measurement of the Relative Importance of Controls on Shoreline Migration. Journal of Sedimentary Research, 2006, 76, 270-283.	1.6	87
5	River channel lateral mobility: metrics, time scales, and controls. Journal of Geophysical Research F: Earth Surface, 2013, 118, 396-412.	2.8	83
6	The Pulse of Calm Fan Deltas. Journal of Geology, 2008, 116, 315-330.	1.4	79
7	Long-period cyclic sedimentation with constant tectonic forcing in an experimental relay ramp. Geology, 2007, 35, 331.	4.4	75
8	Delta progradation driven by an advancing sediment source: Coupled theory and experiment describing the evolution of elongated deltas. Water Resources Research, 2009, 45, .	4.2	54
9	Coarser and rougher: Effects of fine gravel pulses on experimental step-pool channel morphodynamics. Geophysical Research Letters, 2015, 42, 8432-8440.	4.0	54
10	Steering of experimental channels by lateral basin tilting. Basin Research, 2010, 22, 286-301.	2.7	51
11	Impact of tidal currents on delta-channel deepening, stratigraphic architecture, and sediment bypass beyond the shoreline. Geology, 2016, 44, 927-930.	4.4	51
12	Autogenic response of alluvialâ€bedrock transition to baseâ€level variation: Experiment and theory. Journal of Geophysical Research, 2007, 112, .	3.3	44
13	Varying discharge controls on timescales of autogenic storage and release processes in fluvioâ€deltaic environments: Tank experiments. Journal of Geophysical Research, 2012, 117, .	3.3	41
14	Estimation of the paleoflux of terrestrial-derived solids across ancient basin margins using the stratigraphic record. Bulletin of the Geological Society of America, 2013, 125, 578-593.	3.3	41
15	Seaâ€level rise, depthâ€dependent carbonate sedimentation and the paradox of drowned platforms. Sedimentology, 2012, 59, 1677-1694.	3.1	39
16	An enthalpy method for moving boundary problems on the earth's surface. International Journal of Numerical Methods for Heat and Fluid Flow, 2006, 16, 641-654.	2.8	35
17	A similarity solution for a dual moving boundary problem associated with a coastal-plain depositional system. Journal of Fluid Mechanics, 2009, 628, 427-443.	3.4	32
18	Piping coarse-grained sediment to a deep water fan through a shelf-edge delta bypass channel: Tank experiments. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2279-2291.	2.8	29

#	Article	IF	Citations
19	How much subsidence is enough to change the morphology of river deltas?. Geophysical Research Letters, 2016, 43, 10,266.	4.0	26
20	Balancing Aggradation and Progradation on a Vegetated Delta: The Importance of Fluctuating Discharge in Depositional Systems. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1882-1900.	2.8	26
21	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
22	Autoacceleration of clinoform progradation in foreland basins: theory and experiments. Basin Research, 2014, 26, 489-504.	2.7	24
23	Coupling Between Shelf-Edge Architecture and Submarine-Fan Growth Style In A Supply-Dominated Margin. Journal of Sedimentary Research, 2016, 86, 613-628.	1.6	24
24	Control of Basin Water Depth On Channel Morphology and Autogenic Timescales in Deltaic Systems. Journal of Sedimentary Research, 2018, 88, 1026-1039.	1.6	24
25	Accommodation- versus supply-dominated systems for sediment partitioning to deep water. Geology, 2019, 47, 419-422.	4.4	24
26	Data management, sharing, and reuse in experimental geomorphology: Challenges, strategies, and scientific opportunities. Geomorphology, 2015, 244, 180-189.	2.6	23
27	Autogenic Hiatus in Fluviodeltaic Successions: Geometrical Modeling and Physical Experiments. Journal of Sedimentary Research, 2011, 81, 207-217.	1.6	22
28	Experimental tsunami deposits: Linking hydrodynamics to sediment entrainment, advection lengths and downstream fining. Geomorphology, 2016, 253, 478-490.	2.6	21
29	Fluvial Morphology and Sediment-Flux Steering of Axial-Transverse Boundaries In An Experimental Basin. Journal of Sedimentary Research, 2012, 82, 310-325.	1.6	20
30	Mass-balance control on the interaction of axial and transverse channel systems. Geology, 2011, 39, 611-614.	4.4	18
31	Experimental Investigation of Sediment-Dominated Vs. Tectonics-Dominated Sediment Transport Systems In Subsiding Basins. Journal of Sedimentary Research, 2014, 83, 1162-1180.	1.6	18
32	Amplification of Shoreline Response To Sea-Level Change By Back-Tilted Subsidence. Journal of Sedimentary Research, 2014, 84, 470-474.	1.6	17
33	Planform evolution of deltas with graded alluvial topsets: Insights from threeâ€dimensional tank experiments, geometric considerations and field applications. Sedimentology, 2016, 63, 2158-2189.	3.1	17
34	Flood-built land. Nature Geoscience, 2012, 5, 521-522.	12.9	15
35	Laboratory Investigation on Effects of Flood Intermittency on Fan Delta Dynamics. Journal of Geophysical Research F: Earth Surface, 2019, 124, 383-399.	2.8	14
36	Climatically controlled lacustrine clinoforms: Theory and modelling results. Basin Research, 2020, 32, 240-250.	2.7	14

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37	The effect of lateral tectonic tilting on fluviodeltaic surficial and stratal asymmetries: experiment and theory. Basin Research, 2015, 27, 517-530.	2.7	12
38	Delta size and plant patchiness as controls on channel network organization in experimental deltas. Earth Surface Processes and Landforms, 2019, 44, 259-272.	2.5	12
39	Effects of in-phase and out-of-phase sediment supply responses to tectonic movement on the sequence development in the late Tertiary Southern Ulleung Basin, East (Japan) Sea. Computers and Geosciences, 2007, 33, 299-310.	4.2	11
40	Stratigraphic Architecture of An Experimental Basin With Interacting Drainages. Journal of Sedimentary Research, 2012, 82, 326-344.	1.6	11
41	Upstream and Downstream Boundary Conditions Control the Physical and Biological Development of River Deltas. Geophysical Research Letters, 2019, 46, 11188-11196.	4.0	11
42	Does Loadâ€Induced Shallow Subsidence Inhibit Delta Growth?. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006153.	2.8	10
43	Comment on â€˜Clinoform quantification for assessing the effects of external forcing on continental margin developmentâ€™. Basin Research, 2011, 23, 118-121.	2.7	8
44	The effect of flood intermittency on bifurcations in fluviodeltaic systems: Experiment and theory. Sedimentology, 2020, 67, 3055-3066.	3.1	7
45	Sand on salt: Controls on dune subsidence and determining salt substrate thickness. Lithosphere, 2014, 6, 195-199.	1.4	6
46	Reverse migration of lithofacies boundaries and shoreline in response to seaâ€level rise. Basin Research, 2018, 30, 89-100.	2.7	5
47	Coevolution of Minibasin Subsidence and Sedimentation: Experiments. Journal of Sedimentary Research, 2015, 85, 254-264.	1.6	4
48	Predicting paleohydraulics from storm surge and tsunami deposits: Using experiments to improve inverse model accuracy. Journal of Geophysical Research F: Earth Surface, 2017, 122, 760-781.	2.8	4
49	Net Pumping of Sediment into Deep Water Due to Base-Level Cycling: Experimental and Theoretical Results. , 2009, , 41-56.		4
50	Ice cover as a control on the morphodynamics and stratigraphy of Arctic deltas. Geology, 2019, 47, 399-402.	4.4	3
51	Modelling deltaic progradation constrained by a moving sediment source. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 284-292.	1.7	2
52	Building a Sediment Experimentalist Network (SEN): sharing best practices for experimental methods and data management. The Sedimentary Record, 2013, 11, 9-12.	0.6	2
53	Delineation of agricultural drought-prone zones considering irrigation capacities of agricultural facilities under climate change. Paddy and Water Environment, 2019, 17, 783-796.	1.8	1
54	The effect of bottomset on fluviodeltaic landâ€building process: Numerical modelling and physical experiment. Basin Research, 2022, 34, 1763-1780.	2.7	1

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55	The Effect of A Pre-Deposited Mobile Substrate On Terminal-Fan Evolution and Channel Organization: Tank Experiments. Journal of Sedimentary Research, 2017, 87, 921-934.	1.6	0