

Maarten G Kleinhans

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6933493/publications.pdf>

Version: 2024-02-01

169
papers

7,050
citations

44069

48
h-index

74163

75
g-index

212
all docs

212
docs citations

212
times ranked

4358
citing authors

#	ARTICLE	IF	CITATIONS
1	River channel and bar patterns explained and predicted by an empirical and a physics-based method. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 721-738.	2.5	248
2	Sedimentary architecture of abandoned channel fills. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 459-472.	2.5	223
3	Splitting rivers at their seams: bifurcations and avulsion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 47-61.	2.5	204
4	Bifurcation dynamics and avulsion duration in meandering rivers by one-dimensional and three-dimensional models. <i>Water Resources Research</i> , 2008, 44, .	4.2	203
5	Physics-based modeling of large braided sand-bed rivers: Bar pattern formation, dynamics, and sensitivity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2509-2527.	2.8	155
6	Effects of debris flow composition on runout, depositional mechanisms, and deposit morphology in laboratory experiments. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1949-1972.	2.8	154
7	Predicting incipient motion, including the effect of turbulent pressure fluctuations in the bed. <i>Water Resources Research</i> , 2007, 43, .	4.2	148
8	Flow discharge and sediment transport models for estimating a minimum timescale of hydrological activity and channel and delta formation on Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	134
9	Static and dynamic angles of repose in loose granular materials under reduced gravity. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	132
10	Bank pull or bar push: What drives scroll-bar formation in meandering rivers?. <i>Geology</i> , 2014, 42, 319-322.	4.4	132
11	Distinct patterns of interaction between vegetation and morphodynamics. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 791-808.	2.5	127
12	Sorting in grain flows at the lee side of dunes. <i>Earth-Science Reviews</i> , 2004, 65, 75-102.	9.1	119
13	Autocyclic behaviour of fan deltas: an analogue experimental study. <i>Sedimentology</i> , 2009, 56, 1569-1589.	3.1	116
14	Experimental meandering river with chute cutoffs. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	116
15	Stochastic Prediction of Sediment Transport in Sand-Gravel Bed Rivers. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 412-425.	1.5	104
16	Martian stepped-delta formation by rapid water release. <i>Nature</i> , 2008, 451, 973-976.	27.8	98
17	Debris-flow dominance of alluvial fans masked by runoff reworking and weathering. <i>Geomorphology</i> , 2014, 217, 165-181.	2.6	98
18	Sediment Supply-Limited Bedforms in Sand-Gravel Bed Rivers. <i>Journal of Sedimentary Research</i> , 2002, 72, 629-640.	1.6	97

#	ARTICLE	IF	CITATIONS
19	Flow separation at the inner (convex) and outer (concave) banks of constant-width and widening open-channel bends. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 696-716.	2.5	92
20	Effects of vegetation distribution on experimental river channel dynamics. <i>Water Resources Research</i> , 2013, 49, 7558-7574.	4.2	92
21	The origin and timing of fluvial activity at Eberswalde crater, Mars. <i>Icarus</i> , 2012, 220, 530-551.	2.5	89
22	Bifurcation instability and chute cutoff development in meandering gravel-bed rivers. <i>Geomorphology</i> , 2014, 213, 277-291.	2.6	87
23	Evaluating competing hypotheses for the origin and dynamics of river anastomosis. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1337-1351.	2.5	86
24	A unified framework for stability of channel bifurcations in gravel and sand fluvial systems. <i>Geophysical Research Letters</i> , 2015, 42, 7521-7536.	4.0	86
25	Quantifiable effectiveness of experimental scaling of river- and delta morphodynamics and stratigraphy. <i>Earth-Science Reviews</i> , 2014, 133, 43-61.	9.1	84
26	Complex variations in sediment transport at three large river bifurcations during discharge waves in the river Rhine. <i>Sedimentology</i> , 2008, 55, 1145-1171.	3.1	83
27	Bar dynamics and bifurcation evolution in a modelled braided sand-bed river. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1318-1333.	2.5	82
28	Living landscapes: Muddy and vegetated floodplain effects on fluvial pattern in an incised river. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2948-2963.	2.5	82
29	Meandering channel dynamics in highly cohesive sediment on an intertidal mud flat in the Westerschelde estuary, the Netherlands. <i>Geomorphology</i> , 2009, 105, 261-276.	2.6	75
30	Evolution of a bifurcation in a meandering river with adjustable channel widths, Rhine delta apex, The Netherlands. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 2011-2027.	2.5	75
31	Sea-level-rise-induced threats depend on the size of tide-influenced estuaries worldwide. <i>Nature Climate Change</i> , 2019, 9, 986-992.	18.8	73
32	Asynchronous formation of Hesperian and Amazonian-aged deltas on Mars and implications for climate. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1529-1544.	3.6	72
33	Surface morphology of fans in the high-Arctic periglacial environment of Svalbard: Controls and processes. <i>Earth-Science Reviews</i> , 2015, 146, 163-182.	9.1	72
34	Contrasting morphodynamics in alluvial fans and fan deltas: effect of the downstream boundary. <i>Sedimentology</i> , 2012, 59, 2125-2145.	3.1	67
35	Sedimentary deposits in Xanthe Terra: Implications for the ancient climate on Mars. <i>Planetary and Space Science</i> , 2009, 57, 944-957.	1.7	66
36	Palaeoflow reconstruction from fan delta morphology on Mars. <i>Earth and Planetary Science Letters</i> , 2010, 294, 378-392.	4.4	66

#	ARTICLE	IF	CITATIONS
37	Terra Incognita: Explanation and Reduction in Earth Science. <i>International Studies in the Philosophy of Science</i> , 2005, 19, 289-317.	0.2	65
38	Processes controlling the dynamics of compound sand waves in the North Sea, Netherlands. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	62
39	Autogenic avulsion, channelization and backfilling dynamics of debris-flow fans. <i>Sedimentology</i> , 2016, 63, 1596-1619.	3.1	59
40	Effects of mud supply on large-scale estuary morphology and development over centuries to millennia. <i>Earth Surface Dynamics</i> , 2017, 5, 617-652.	2.4	59
41	Network concepts to describe channel importance and change in multichannel systems: test results for the Jamuna River, Bangladesh. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 766-778.	2.5	57
42	One-dimensional modeling of a recent Ganga avulsion: Assessing the potential effect of tectonic subsidence on a large river. <i>Geomorphology</i> , 2014, 213, 24-37.	2.6	55
43	Upstream control of river anastomosis by sediment overloading, upper Columbia River, British Columbia, Canada. <i>Sedimentology</i> , 2017, 64, 1488-1510.	3.1	55
44	Sediment Transport of Fine Sand to Fine Gravel on Transverse Bed Slopes in Rotating Annular Flume Experiments. <i>Water Resources Research</i> , 2018, 54, 19-45.	4.2	54
45	Critical dependence of morphodynamic models of fluvial and tidal systems on empirical downslope sediment transport. <i>Nature Communications</i> , 2019, 10, 4903.	12.8	54
46	Sediment transport in analogue flume models compared with real-world sedimentary systems: a new look at scaling evolution of sedimentary systems in a flume. <i>Sedimentology</i> , 2008, 55, 1541-1557.	3.1	52
47	Avulsion in action: Reconstruction and modelling sedimentation pace and upstream flood water levels following a Medieval tidal-river diversion catastrophe (Biesbosch, The Netherlands, 1421-1750). <i>Tijdschrift voor Geografie</i> , 2014, 138, 1-14.	0.7	52
48	Observations of sand waves, megaripples, and hummocks in the Dutch coastal area and their relation to currents and combined flow conditions. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	51
49	Combined effects of climate change and dam construction on riverine ecosystems. <i>Ecological Engineering</i> , 2018, 120, 329-344.	3.6	49
50	Formation of a cohesive floodplain in a dynamic experimental meandering river. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1550-1565.	2.5	47
51	Valley formation by groundwater seepage, pressurized groundwater outbursts and crater-lake overflow in flume experiments with implications for Mars. <i>Icarus</i> , 2014, 232, 97-117.	2.5	46
52	Fluvial Regimes, Morphometry, and Age of Jezero Crater Paleolake Inlet Valleys and Their Exobiological Significance for the 2020 Rover Mission Landing Site. <i>Astrobiology</i> , 2020, 20, 994-1013.	3.0	46
53	The key role of fluvial dunes in transport and deposition of sand-gravel mixtures, a preliminary note. <i>Sedimentary Geology</i> , 2001, 143, 7-13.	2.1	45
54	Discriminating between pore-filling load and bed-structure load: a new porosity-based method, exemplified for the river Rhine. <i>Sedimentology</i> , 2008, 55, 1571-1593.	3.1	45

#	ARTICLE	IF	CITATIONS
55	Earth-like aqueous debris-flow activity on Mars at high orbital obliquity in the last million years. <i>Nature Communications</i> , 2015, 6, 7543.	12.8	42
56	Salt Marsh Establishment and Eco-Engineering Effects in Dynamic Estuaries Determined by Species Growth and Mortality. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2962-2986.	2.8	42
57	Channel belt architecture formed by a meandering river. <i>Sedimentology</i> , 2013, 60, 840-859.	3.1	40
58	Near-bed and surface flow division patterns in experimental river bifurcations. <i>Water Resources Research</i> , 2014, 50, 1506-1530.	4.2	40
59	Observed and predicted bed forms and their effect on suspended sand concentrations. <i>Coastal Engineering</i> , 2004, 51, 351-371.	4.0	39
60	Grain-size sorting in grainflows at the lee side of deltas. <i>Sedimentology</i> , 2005, 52, 291-311.	3.1	39
61	HESS Opinions On the use of laboratory experimentation: "Hydrologists, bring out shovels and garden hoses and hit the dirt". <i>Hydrology and Earth System Sciences</i> , 2010, 14, 369-382.	4.9	39
62	Bank erosion processes measured with UAV-SfM along complex banklines of a straight mid-sized river reach. <i>Earth Surface Dynamics</i> , 2018, 6, 933-953.	2.4	39
63	Human-induced changes in bed shear stress and bed grain size in the River Waal (The Netherlands) during the past 900 years. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 503-514.	2.5	36
64	Groundwater seepage landscapes from distant and local sources in experiments and on Mars. <i>Earth Surface Dynamics</i> , 2015, 3, 389-408.	2.4	35
65	Experimental delta formation in crater lakes and implications for interpretation of Martian deltas. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 651-670.	3.6	34
66	Accuracy of Cross-Channel Sampled Sediment Transport in Large Sand-Gravel-Bed Rivers. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 258-269.	1.5	33
67	Topographic forcing of tidal sandbar patterns for irregular estuary planforms. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 172-186.	2.5	33
68	Dimensions of fluvial-tidal meanders: Are they disproportionately large?. <i>Geology</i> , 2018, 46, 923-926.	4.4	32
69	Bed load transport on the shoreface by currents and waves. <i>Coastal Engineering</i> , 2006, 53, 983-996.	4.0	31
70	Local late Amazonian boulder breakdown and denudation rate on Mars. <i>Geophysical Research Letters</i> , 2013, 40, 3527-3531.	4.0	31
71	Turning the tide: Growth and dynamics of a tidal basin and inlet in experiments. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 95-119.	2.8	30
72	Magnetic Resonance Imaging of coarse sediment. <i>Sedimentary Geology</i> , 2008, 208, 69-78.	2.1	28

#	ARTICLE	IF	CITATIONS
73	Sedimentological analyses of martian gullies: The subsurface as the key to the surface. <i>Icarus</i> , 2015, 258, 92-108.	2.5	28
74	Modeling invasive alien plant species in river systems: Interaction with native ecosystem engineers and effects on hydro-morphodynamic processes. <i>Water Resources Research</i> , 2017, 53, 6945-6969.	4.2	28
75	Growing Forced Bars Determine Nonideal Estuary Planform. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2971-2992.	2.8	28
76	Network response to disturbances in large sand-bed braided rivers. <i>Earth Surface Dynamics</i> , 2016, 4, 25-45.	2.4	26
77	Amazonian-aged fluvial system and associated ice-related features in Terra Cimmeria, Mars. <i>Icarus</i> , 2016, 277, 286-299.	2.5	25
78	Sustained fluvial deposition recorded in Mars' Noachian stratigraphic record. <i>Nature Communications</i> , 2020, 11, 2067.	12.8	25
79	Mangrove diversity loss under sea-level rise triggered by bio-morphodynamic feedbacks and anthropogenic pressures. <i>Environmental Research Letters</i> , 2020, 15, 114033.	5.2	25
80	Morphodynamic assessment of side channel systems using a simple one-dimensional bifurcation model and a comparison with aerial images. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1169-1182.	2.5	24
81	Controls on mud distribution and architecture along the fluvial-to-marine transition. <i>Geology</i> , 2018, 46, 971-974.	4.4	24
82	Autogenic cyclicity of foreset sorting in experimental Gilbert-type deltas. <i>Sedimentary Geology</i> , 2005, 181, 215-224.	2.1	23
83	Response of braiding channel morphodynamics to peak discharge changes in the Upper Yellow River. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1648-1662.	2.5	23
84	Effects of estuarine mudflat formation on tidal prism and large-scale morphology in experiments. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 417-432.	2.5	23
85	What Came First, Mud or Biostabilizers? Elucidating Interacting Effects in a Coupled Model of Mud, Saltmarsh, Microphytobenthos, and Estuarine Morphology. <i>Water Resources Research</i> , 2020, 56, e2019WR026945.	4.2	23
86	Scour holes and ripples occur below the hydraulic smooth to rough transition of movable beds. <i>Sedimentology</i> , 2017, 64, 1381-1401.	3.1	22
87	Ediacaran life close to land: Coastal and shoreface habitats of the Ediacaran macrobiota, the Central Flinders Ranges, South Australia. <i>Journal of Sedimentary Research</i> , 2020, 90, 1463-1499.	1.6	22
88	Catastrophic ice lake collapse in Aram Chaos, Mars. <i>Icarus</i> , 2014, 236, 104-121.	2.5	21
89	Swiftness of biomorphodynamics in Lilliput- to Giant-sized rivers and deltas. <i>Geomorphology</i> , 2015, 244, 56-73.	2.6	21
90	Archimetrics: a quantitative tool to predict three-dimensional meander belt sandbody heterogeneity. <i>Depositional Record</i> , 2016, 2, 22-46.	1.7	21

#	ARTICLE	IF	CITATIONS
91	Anthropogenic Effects on the Contemporary Sediment Budget of the Lower Rhineâ€Meuse Delta Channel Network. <i>Earth's Future</i> , 2021, 9, e2020EF001869.	6.3	21
92	Effects of Shoal Margin Collapses on the Morphodynamics of a Sandy Estuary. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 195-215.	2.8	20
93	Estimated Minimum Life Span of the Jezero Fluvial Delta (Mars). <i>Astrobiology</i> , 2020, 20, 977-993.	3.0	20
94	Pressurized groundwater outflow experiments and numerical modeling for outflow channels on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2668-2693.	3.6	19
95	A Modelling Framework to Assess the Effect of Pressures on River Abiotic Habitat Conditions and Biota. <i>PLoS ONE</i> , 2015, 10, e0130228.	2.5	19
96	The vulnerability of tidal flats and multi-channel estuaries to dredging and disposal. <i>Anthropocene Coasts</i> , 2021, 4, 36-60.	1.5	19
97	Upstream perturbation and floodplain formation effects on chuteâ€cutoffâ€dominated meandering river pattern and dynamics. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2156-2169.	2.5	18
98	Turning the tide: mutually evasive ebb- and flood-dominant channels and bars in an experimental estuary. <i>Advances in Geosciences</i> , 0, 39, 21-26.	12.0	18
99	Salt marshes create more extensive channel networks than mangroves. <i>Nature Communications</i> , 2022, 13, 2017.	12.8	18
100	Preservation of meandering river channels in uniformly aggrading channel belts. <i>Sedimentology</i> , 2016, 63, 586-608.	3.1	17
101	Biodiversity recovery following delta-wide measures for flood risk reduction. <i>Science Advances</i> , 2017, 3, e1602762.	10.3	17
102	Morphological effects of vegetation on the tidalâ€fluvial transition in Holocene estuaries. <i>Earth Surface Dynamics</i> , 2018, 6, 883-901.	2.4	17
103	Predicting river channel pattern based on stream power, bed material and bank strength. <i>Progress in Physical Geography</i> , 2021, 45, 253-278.	3.2	17
104	A tale of two planets: geomorphology applied to Mars' surface, fluvioâ€deltaic processes and landforms. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 102-117.	2.5	16
105	Late Holocene channel pattern change from laterally stable to meandering â€ a palaeohydrological reconstruction. <i>Earth Surface Dynamics</i> , 2018, 6, 723-741.	2.4	16
106	Longâ€term evolution of the Old Rhine estuary: Unravelling effects of changing boundary conditions and inherited landscape. <i>Depositional Record</i> , 2019, 5, 84-108.	1.7	16
107	Bank Erosion Processes in Regulated Navigable Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005441.	2.8	16
108	Benthic species as mud patrol â€modelled effects of bioturbators and biofilms on largeâ€scale estuarine mud and morphology. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1128-1144.	2.5	16

#	ARTICLE	IF	CITATIONS
109	Geometry and Topology of Estuary and Braided River Channel Networks Automatically Extracted From Topographic Data. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005206.	2.8	15
110	Implications of Coastal Conditions and Sea-Level Rise on Mangrove Vulnerability: A Bio-Morphodynamic Modeling Study. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	15
111	Pressurized groundwater systems in Lunae and Ophir Plana (Mars): Insights from small-scale morphology and experiments. <i>GeoResJ</i> , 2015, 8, 1-13.	1.4	14
112	Turning the tide: comparison of tidal flow by periodic sea level fluctuation and by periodic bed tilting in scaled landscape experiments of estuaries. <i>Earth Surface Dynamics</i> , 2017, 5, 731-756.	2.4	14
113	Observations of dune interactions from DEMs using through-water Structure from Motion. <i>Geomorphology</i> , 2020, 359, 107126.	2.6	14
114	Historic Discharge Measurements in Three Rhine Branches. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 140-145.	1.5	13
115	Porosity and size gradation of saturated gravel with percolated fines. <i>Sedimentology</i> , 2016, 63, 1209-1232.	3.1	13
116	Flood hazard reduction from automatically applied landscaping measures in RiverScape, a Python package coupled to a two-dimensional flow model. <i>Environmental Modelling and Software</i> , 2018, 101, 102-116.	4.5	13
117	Morphology of bar-built estuaries: empirical relation between planform shape and depth distribution. <i>Earth Surface Dynamics</i> , 2018, 6, 763-778.	2.4	13
118	Geometry of Wave-Formed Orbital Ripples in Coarse Sand. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1568-1594.	2.6	12
119	Location and probability of shoal margin collapses in a sandy estuary. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2342-2357.	2.5	12
120	Initiation and Flow Conditions of Contemporary Flows in Martian Gullies. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2246-2271.	3.6	12
121	Effects of Wave Orbital Velocity Parameterization on Nearshore Sediment Transport and Decadal Morphodynamics. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 188.	2.6	12
122	Self-constraining of low-energy rivers explains low channel mobility and tortuous planforms. <i>Depositional Record</i> , 2020, 6, 648-669.	1.7	12
123	MUDDYING THE WATERS: MODELING THE EFFECTS OF EARLY LAND PLANTS IN PALEOZOIC ESTUARIES. <i>Palaios</i> , 2021, 36, 173-181.	1.3	12
124	On the Impact of Salt Marsh Pioneer Species Assemblages on the Emergence of Intertidal Channel Networks. <i>Water Resources Research</i> , 2020, 56, no.	4.2	12
125	Empirical Assessment Tool for Bathymetry, Flow Velocity and Salinity in Estuaries Based on Tidal Amplitude and Remotely-Sensed Imagery. <i>Remote Sensing</i> , 2018, 10, 1915.	4.0	11
126	Natural levee evolution in vegetated fluvial-tidal environments. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 3824-3841.	2.5	11

#	ARTICLE	IF	CITATIONS
127	Analysis of coastal storm damage resistance in successional mangrove species. <i>Limnology and Oceanography</i> , 2021, 66, 3221-3236.	3.1	11
128	Distinct patterns of bank erosion in a navigable regulated river. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 361-374.	2.5	10
129	Spatio-temporal characteristics of small-scale wave-current ripples on the Ameland ebb-tidal delta. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1248-1261.	2.5	10
130	Morphological evolution of bifurcations in tide-influenced deltas. <i>Earth Surface Dynamics</i> , 2020, 8, 413-429.	2.4	10
131	Stability and Asymmetry of Tide-Influenced River Bifurcations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	10
132	Towards multi-objective optimization of large-scale fluvial landscaping measures. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 1167-1187.	3.6	9
133	Species selection and assessment of eco-engineering effects of seedlings for biogeomorphological landscape experiments. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2922-2935.	2.5	9
134	Upstream sediment input effects on experimental dune trough scour in sediment mixtures. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	8
135	A characterization of side channel development. <i>River Research and Applications</i> , 2019, 35, 1597-1603.	1.7	8
136	Towards a rights-based approach in EU international river basin governance? Lessons from the Scheldt and Ems Basins. <i>Water International</i> , 2019, 44, 701-718.	1.0	8
137	Fate of pioneering vegetation patches in a dynamic meandering river. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1618-1632.	2.5	8
138	Effects of sediment grain size and channel slope on the stability of river bifurcations. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2004-2018.	2.5	8
139	Building and Raising Land: Mud and Vegetation Effects in Infilling Estuaries. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	8
140	Transitional polders along estuaries: Driving land-level rise and reducing flood propagation. <i>Nature-based Solutions</i> , 2022, 2, 100022.	3.8	8
141	Quantifying Fluid Retention Due to Natural Vegetation in a Forest Floodplain Analogue Using the Aggregated Dead Zone (ADZ) Dilution Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR027070.	4.2	7
142	Introducing the <i>TiDyWAVE</i> field flume: A method to quantify natural ecosystem resilience against future storm waves. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 585-598.	2.0	6
143	Experimental distributive fluvial systems: Bridging the gap between river and rock record. <i>Depositional Record</i> , 2020, 6, 670-684.	1.7	6
144	Down to Earth: History and philosophy of geoscience in practice for undergraduate education. <i>European Journal for Philosophy of Science</i> , 2021, 11, 1.	1.1	6

#	ARTICLE	IF	CITATIONS
145	Connectivity and directionality in estuarine channel networks. <i>Earth Surface Processes and Landforms</i> , 0, , .	2.5	6
146	Complementing scale experiments of rivers and estuaries with numerically modelled hydrodynamics. <i>Earth Surface Dynamics</i> , 2020, 8, 955-972.	2.4	6
147	Alluvial Connectivity in Multi-Channel Networks in Rivers and Estuaries. <i>Earth Surface Processes and Landforms</i> , 0, , .	2.5	5
148	Dune-Phase Fluvial Transport and Deposition Model of Gravelly Sand. , 0, , 75-97.		4
149	River bifurcations and avulsion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 317-318.	2.5	4
150	Incipient Tidal Bar and Sill Formation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1762-1781.	2.8	4
151	Interaction between lateral sorting in river bends and vertical sorting in dunes. <i>Sedimentology</i> , 2020, 67, 606-626.	3.1	4
152	Key Bioturbator Species Within Benthic Communities Determine Sediment Resuspension Thresholds. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
153	Origin of circular collapsed landforms in the Chryse region of Mars. <i>Icarus</i> , 2016, 265, 70-78.	2.5	3
154	On dynamic naturalness, static regulation and human influence in the Ems-Dollard estuary. <i>International Journal of Water Resources Development</i> , 2020, , 1-20.	2.0	3
155	Estuarine morphodynamics and development modified by floodplain formation. <i>Earth Surface Dynamics</i> , 2022, 10, 367-381.	2.4	3
156	Correction to "Flow discharge and sediment transport models for estimating a minimum timescale of hydrological activity and channel and delta formation on Mars". <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	2
157	The influence of transverse slope effects on large scale morphology in morphodynamic models. <i>E3S Web of Conferences</i> , 2018, 40, 04021.	0.5	2
158	Salt Marsh and Tidal Flat Area Distributions Along Three Estuaries. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	2
159	NEW HIGH-RESOLUTION MEASUREMENTS OF WAVE BOUNDARY LAYER FLOW UNDER FULL-SCALE SURFACE WAVES. , 2009, , .		2
160	Depth-limiting resistant layers restrict dimensions and positions of estuarine channels and bars. <i>Depositional Record</i> , 0, , .	1.7	2
161	SUPERIMPOSED ALLOGENIC AND BIOLOGICAL CONTROLS ON SILICICLASTIC ARCHITECTURE: AN EARLY MISSISSIPPIAN (VISEAN) EXAMPLE FROM TROPICAL LAURUSSIA. <i>Palaios</i> , 2022, 37, 224-250.	1.3	2
162	Measured and Predicted Suspended Sand Transport on a Sandy Shoreface. , 2006, , 1.		1

#	ARTICLE	IF	CITATIONS
163	On the morphological evolution of restored banks: Case study of the Meuse river. E3S Web of Conferences, 2018, 40, 02021.	0.5	1
164	Evolution of a new tidal river bifurcation. , 2007, , 815-822.		1
165	Modelling the effects of normal faulting on alluvial river meandering. Earth Surface Processes and Landforms, 0, , .	2.5	1
166	Sediment Transport on a Sand Bed With Dunes: Deformation and Translation Fluxes. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	1
167	Modelling restoration of natural flow regimes in dam impaired systems: Biomorphodynamic effects and recovery times. Geomorphology, 2022, 413, 108327.	2.6	1
168	Apparent Current Roughness Caused by Waves and Bedforms on a Sandy Shoreface. , 2006, , 1.		0
169	Observed and modelled tidal bar sedimentology reveals preservation bias against mud in estuarine stratigraphy. Depositional Record, 0, , .	1.7	0