Joris T Eggenhuisen

List of Publications by Year
in descending order

24 papers	881 citations	623734 14 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	725 citing authors

#	Article	IF	Citations
1	Transport and Burial of Microplastics in Deep-Marine Sediments by Turbidity Currents. Environmental Science & Technology, 2020, 54, 4180-4189.	10.0	172
2	Deep-Water Sediment Bypass. Journal of Sedimentary Research, 2015, 85, 1058-1081.	1.6	164
3	The stratigraphic record and processes of turbidity current transformation across deepâ€marine lobes. Sedimentology, 2017, 64, 1236-1273.	3.1	104
4	Morphodynamics of submarine channel inception revealed by new experimental approach. Nature Communications, 2016, 7, 10886.	12.8	73
5	New flow relaxation mechanism explains scour fields at the end of submarine channels. Nature Communications, 2019, 10, 4425.	12.8	51
6	Shallow erosion beneath turbidity currents and its impact on the architectural development of turbidite sheet systems. Sedimentology, 2011, 58, 936-959.	3.1	42
7	The vertical turbulence structure of experimental turbidity currents encountering basal obstructions: implications for vertical suspended sediment distribution in nonâ€equilibrium currents. Sedimentology, 2012, 59, 1101-1120.	3.1	37
8	Linking submarine channelâ€“levee facies and architecture to flow structure of turbidity currents: insights from flume tank experiments. Sedimentology, 2018, 65, 931-951.	3.1	24
9	Entangled external and internal controls on submarine fan evolution: an experimental perspective. Depositional Record, 2020, 6, 605-624.	1.7	23
10	Physical theory for near-bed turbulent particle suspension capacity. Earth Surface Dynamics, 2017, 5, 269-281.	2.4	22
11	The influence of basin setting and turbidity current properties on the dimensions of submarine lobe elements. Sedimentology, 2020, 67, 3471-3491.	3.1	21
12	The Influence of Confining Topography Orientation on Experimental Turbidity Currents and Geological Implications. Frontiers in Earth Science, 2021, 8, .	1.8	21
13	Sediment Volume and Grain-Size Partitioning Between Submarine Channelâ€Levee Systems and Lobes: An Experimental Study. Journal of Sedimentary Research, 2018, 88, 777-794.	1.6	18
14	First source-to-sink monitoring shows dense head controls sediment flux and runout in turbidity currents. Science Advances, 2022, 8, eabj3220.	10.3	18
15	Turbulent diffusion modelling of sediment in turbidity currents: An experimental validation of the Rouse approach. Depositional Record, 2020, 6, 203-216.	1.7	15
16	Wave Ripple Development on Mixed Clayâ€Sand Substrates: Effects of Clay Winnowing and Armoring. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2784-2801.	2.8	12
17	A Classification of Clayâ€Rich Subaqueous Density Flow Structures. Journal of Geophysical Research F: Earth Surface, 2018, 123, 945-966.	2.8	11
18	Fill, flush or shuffle: How is sediment carried through submarine channels to build lobes?. Earth and Planetary Science Letters, 2022, 584, 117481.	4.4	10

#	Article	IF	Citations
19	A new rheological model for thixoelastic materials in subaqueous gravity driven flows. Journal of Non-Newtonian Fluid Mechanics, 2019, 266, 102-117.	2.4	8
20	Flowâ€process controls on grain type distribution in an experimental turbidity current deposit: Implications for detrital signal preservation and microplastic distribution in submarine fans. Depositional Record, 2021, 7, 392-415.	1.7	8
21	Blood, lead and spheres: A hindered settling equation for sedimentologists based on metadata analysis. Depositional Record, 2022, 8, 603-615.	1.7	8
22	Experimental distributive fluvial systems: Bridging the gap between river and rock record. Depositional Record, 2020, 6, 670-684.	1.7	6
23	Dynamic deviation of fluid pressure from hydrostatic pressure in turbidity currents. Geology, 2012, 40, 295-298.	4.4	5
24	Proximal to distal grainâ€size distribution of basinâ€floor lobes: A study from the Battfjellet Formation, Central Tertiary Basin, Svalbard. Depositional Record, 2022, 8, 436-456.	1.7	4