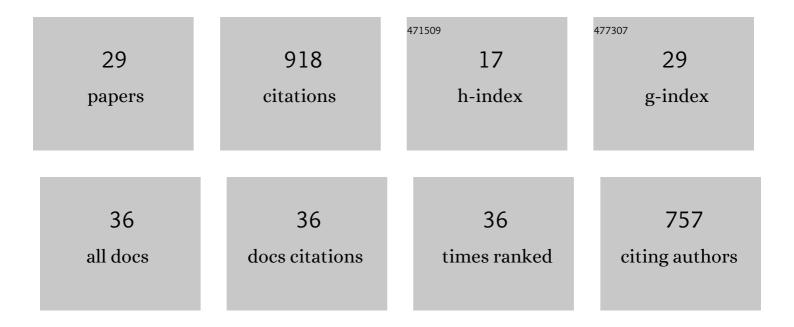
## Thomas Pähtz

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9510903/publications.pdf Version: 2024-02-01



ΤΗΟΜΛς ΡΔάττ

#	Article	IF	CITATIONS
1	Megaripple mechanics: bimodal transport ingrained in bimodal sands. Nature Communications, 2022, 13, 162.	12.8	13
2	Fluid-particle interaction regimes during the evolution of turbidity currents from a coupled LES/DEM model. Advances in Water Resources, 2022, 163, 104171.	3.8	9
3	Unified Model of Sediment Transport Threshold and Rate Across Weak and Intense Subaqueous Bedload, Windblown Sand, and Windblown Snow. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005859.	2.8	15
4	Aeolian sand transport: Scaling of mean saltation length and height and implications for mass flux scaling. Aeolian Research, 2021, 52, 100730.	2.7	6
5	The Physics of Sediment Transport Initiation, Cessation, and Entrainment Across Aeolian and Fluvial Environments. Reviews of Geophysics, 2020, 58, e2019RG000679.	23.0	97
6	Unification of Aeolian and Fluvial Sediment Transport Rate from Granular Physics. Physical Review Letters, 2020, 124, 168001.	7.8	42
7	Large Effects of Particle Size Heterogeneity on Dynamic Saltation Threshold. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2311-2321.	2.8	8
8	Local Rheology Relation with Variable Yield Stress Ratio across Dry, Wet, Dense, and Dilute Granular Flows. Physical Review Letters, 2019, 123, 048001.	7.8	34
9	The Effect of Turbulence on Drifting Snow Sublimation. Geophysical Research Letters, 2019, 46, 11568-11575.	4.0	20
10	Comment on "Distinct Thresholds for the Initiation and Cessation of Aeolian Saltation From Field Measurements―by Raleigh L. Martin and Jasper F. Kok: Alternative Interpretation of Measured Thresholds as Two Distinct Cessation Thresholds. Journal of Geophysical Research F: Earth Surface, 2018, 123, 3388-3391.	2.8	3
11	The Critical Role of the Boundary Layer Thickness for the Initiation of Aeolian Sediment Transport. Geosciences (Switzerland), 2018, 8, 314.	2.2	27
12	Front Velocity and Front Location of Lock-Exchange Gravity Currents Descending a Slope in a Linearly Stratified Environment. Journal of Hydraulic Engineering, 2018, 144, .	1.5	12
13	The Cessation Threshold of Nonsuspended Sediment Transport Across Aeolian and Fluvial Environments. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1638-1666.	2.8	42
14	Universal friction law at granular solid-gas transition explains scaling of sediment transport load with excess fluid shear stress. Physical Review Fluids, 2018, 3, .	2.5	22
15	Limitations of empirical sediment transport formulas for shallow water and their consequences for swash zone modelling. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 114-120.	1.7	6
16	Fluid forces or impacts: What governs the entrainment of soil particles in sediment transport mediated by a Newtonian fluid?. Physical Review Fluids, 2017, 2, .	2.5	30
17	ls it appropriate to model turbidity currents with the threeâ€equation model?. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1153-1170.	2.8	15
18	Modeling of Breaching Due to Overtopping Flow and Waves Based on Coupled Flow and Sediment Transport. Water (Switzerland), 2015, 7, 4283-4304.	2.7	10

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#	Article	IF	CITATIONS
19	Discrete Element Method simulations of the saturation of aeolian sand transport. Geophysical Research Letters, 2015, 42, 2063-2070.	4.0	27
20	An optimized dispersion–relation-preserving combined compact difference scheme to solve advection equations. Journal of Computational Physics, 2015, 300, 92-115.	3.8	11
21	The fluctuation energy balance in non-suspended fluid-mediated particle transport. Physics of Fluids, 2015, 27, 013303.	4.0	13
22	Electric Field and Humidity Trigger Contact Electrification. Physical Review X, 2015, 5, .	8.9	30
23	Well-balanced and flexible morphological modeling of swash hydrodynamics and sediment transport. Coastal Engineering, 2015, 96, 27-37.	4.0	19
24	Analytical model for flux saturation in sediment transport. Physical Review E, 2014, 89, 052213.	2.1	35
25	Midair Collisions Enhance Saltation. Physical Review Letters, 2013, 111, 058001.	7.8	53
26	Flux Saturation Length of Sediment Transport. Physical Review Letters, 2013, 111, 218002.	7.8	62
27	The apparent roughness of a sand surface blown by wind from an analytical model of saltation. New Journal of Physics, 2012, 14, 043035.	2.9	62
28	Jump at the Onset of Saltation. Physical Review Letters, 2011, 107, 098001.	7.8	53
29	Why do particle clouds generate electric charges?. Nature Physics, 2010, 6, 364-368.	16.7	142