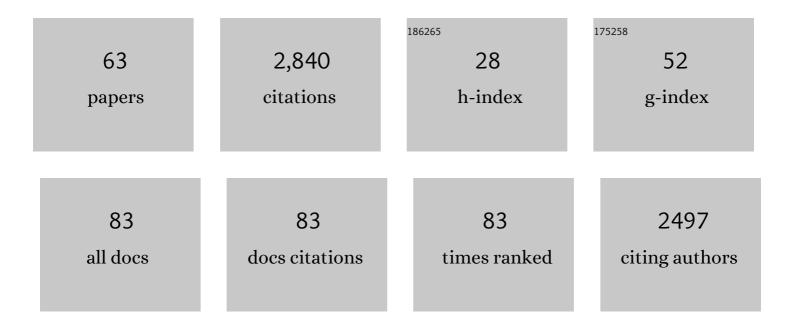
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bed load transport in turbulent flow at the grain scale: Experiments and modeling. Journal of Geophysical Research, 2010, 115, .	3.3	293
2	Spreading of a granular mass on a horizontal plane. Physics of Fluids, 2004, 16, 2371-2381.	4.0	279
3	Granular slumping on a horizontal surface. Physics of Fluids, 2005, 17, 103302.	4.0	238
4	On the use of Saint Venant equations to simulate the spreading of a granular mass. Journal of Geophysical Research, 2005, 110, .	3.3	161
5	Miscible displacement in a Hele-Shaw cell at high rates. Journal of Fluid Mechanics, 1999, 398, 299-319.	3.4	140
6	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	2.2	126
7	Turbulent mixing in the Amazon River: The isotopic memory of confluences. Earth and Planetary Science Letters, 2010, 290, 37-43.	4.4	118
8	3D Instability of Miscible Displacements in a Hele-Shaw Cell. Physical Review Letters, 1997, 79, 5254-5257.	7.8	101
9	Interface instabilities during displacements of two miscible fluids in a vertical pipe. Physics of Fluids, 2001, 13, 553-556.	4.0	61
10	Small is beautiful: Upscaling from microscale laminar to natural turbulent rivers. Journal of Geophysical Research, 2008, 113, .	3.3	58
11	Cross-stream diffusion in bedload transport. Physics of Fluids, 2014, 26, .	4.0	58
12	Fluvial and submarine morphodynamics of laminar and near-laminar flows: a synthesis. Sedimentology, 2010, 57, 1-26.	3.1	57
13	On the tip-splitting instability of viscous fingers. Journal of Fluid Mechanics, 2000, 419, 125-149.	3.4	55
14	Laboratory rivers: Lacey's law, threshold theory, and channel stability. Earth Surface Dynamics, 2017, 5, 187-198.	2.4	53
15	Dynamic of particulate and dissolved organic carbon in small volcanic mountainous tropical watersheds. Chemical Geology, 2013, 351, 229-244.	3.3	52
16	Understanding how volume affects the mobility of dry debris flows. Geophysical Research Letters, 2009, 36, .	4.0	51
17	Controls on chemical weathering on a mountainous volcanic tropical island: Guadeloupe (French) Tj ETQq1 1 0.	784314 rg 3.9	BT /Overlock
18	Flow pattern and sediment transport in a braided river: The "torrent de St Pierre―(French Alps). Journal of Hydrology, 2006, 330, 496-505.	5.4	49

#	Article	IF	CITATIONS
19	Orography-driven chemical denudation in the Lesser Antilles: Evidence for a new feed-back mechanism stabilizing atmospheric CO2. Numerische Mathematik, 2011, 311, 851-894.	1.4	49
20	Submarine Canyons in the Bathtub. Journal of Sedimentary Research, 2005, 75, 6-11.	1.6	46
21	Flow Rule, Self-Channelization, and Levees in Unconfined Granular Flows. Physical Review Letters, 2006, 97, 158303.	7.8	45
22	Bedload transport of a bimodal sediment bed. Journal of Geophysical Research, 2012, 117, .	3.3	45
23	New insights on the runout of large landslides in the Valles-Marineris canyons, Mars. Geophysical Research Letters, 2006, 33, .	4.0	42
24	Thermocapillary migration of long bubbles in polygonal tubes. II. Experiments. Physics of Fluids, 2003, 15, 308-314.	4.0	38
25	Physically based model of downstream fining in bedrock streams with lateral input. Water Resources Research, 2010, 46, .	4.2	35
26	Width of laminar laboratory rivers. Physical Review E, 2013, 87, 052204.	2.1	35
27	Stability of bedforms in laminar flows with free surface: from bars to ripples. Journal of Fluid Mechanics, 2010, 642, 329-348.	3.4	33
28	Measuring bedload in gravel-bed mountain rivers: averaging methods and sampling strategies. Geodinamica Acta, 2008, 21, 81-92.	2.2	30
29	The threshold of the instability in miscible displacements in a Hele–Shaw cell at high rates. Physics of Fluids, 2001, 13, 799-801.	4.0	24
30	Laboratory alluvial fans in one dimension. Physical Review E, 2014, 90, 022203.	2.1	22
31	Tracer dispersion in bedload transport. Advances in Geosciences, 0, 37, 1-6.	12.0	22
32	Rivers from Volcanic Island Arcs: The subduction weathering factory. Applied Geochemistry, 2011, 26, S350-S353.	3.0	21
33	Geometry of meandering and braided gravel-bed threads from the Bayanbulak Grassland, Tianshan, P.ÂR.ÂChina. Earth Surface Dynamics, 2016, 4, 273-283.	2.4	21
34	Erosion rates deduced from seasonal mass balance along the upper Urumqi River in Tianshan. Solid Earth, 2011, 2, 283-301.	2.8	20
35	Threshold constraints on the size, shape and stability of alluvial rivers. Nature Reviews Earth & Environment, 2022, 3, 406-419.	29.7	20
36	Experimental Investigation On Self-Channelized Erosive Gravity Currents. Journal of Sedimentary Research, 2014, 84, 487-498.	1.6	18

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37	Advection and dispersion of bed load tracers. Earth Surface Dynamics, 2018, 6, 389-399.	2.4	18
38	Streamâ€Ðischarge Surges Generated by Groundwater Flow. Geophysical Research Letters, 2019, 46, 7447-7455.	4.0	18
39	Diffusive evolution of experimental braided rivers. Physical Review E, 2014, 89, 052809.	2.1	17
40	The Grain-size Patchiness of Braided Gravel-Bed Streams – example of the Urumqi River (northeast Tian) Tj ET(Qq0,0,0 rg 12.0 rg	gBT /Overlock I
41	Jamming transition of a granular pile below the angle of repose. European Physical Journal B, 2003, 36, 105-113.	1.5	16
42	Rhomboid beach pattern: A laboratory investigation. Journal of Geophysical Research, 2010, 115, .	3.3	16
43	Erosive effects of the storm Helena (1963) on Basse Terre Island (Guadeloupe — Lesser Antilles Arc). Geomorphology, 2014, 206, 79-86.	2.6	16
44	Self-similar growth of a bimodal laboratory fan. Earth Surface Dynamics, 2017, 5, 239-252.	2.4	16
45	Optical method for measuring bed topography and flow depth in an experimental flume. Solid Earth, 2011, 2, 143-154.	2.8	14
46	Response of a laboratory aquifer to rainfall. Journal of Fluid Mechanics, 2014, 759, .	3.4	13
47	Recirculation cells in a wide channel. Physics of Fluids, 2014, 26, .	4.0	13
48	Boltzmann Distribution of Sediment Transport. Physical Review Letters, 2019, 123, 014501.	7.8	10
49	Laboratory rivers adjust their shape to sediment transport. Physical Review E, 2020, 102, 053101.	2.1	10
50	Sediment load determines the shape of rivers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
51	Uniform grain-size distribution in the active layer of a shallow, gravel-bedded, braided river (the) Tj ETQq1 1 0.78	34314 rgB 2.4	T /Qverlock 10
52	Streamwise streaks induced by bedload diffusion. Journal of Fluid Mechanics, 2019, 863, 601-619.	3.4	8
53	Near-wall velocity measurements by particle-shadow tracking. Experiments in Fluids, 2007, 42, 843-846.	2.4	6
54	Building the information system of the French Critical Zone Observatories network: Theia/OZCAR-IS. Hydrological Sciences Journal, 2022, 67, 2401-2419.	2.6	6

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55	Viscous transfer of momentum across a shallow laminar flow. Journal of Fluid Mechanics, 2022, 932, .	3.4	4
56	Turbulent mixing in the Amazon River: The isotopic memory of confluences. Earth and Planetary Science Letters, 290 (2010), pp. 37–43. Earth and Planetary Science Letters, 2011, 311, 448-450.	4.4	3
57	Flow and residence time in a two-dimensional aquifer recharged by rainfall. Journal of Fluid Mechanics, 2021, 917, .	3.4	3
58	Experimental investigation of the response of an alluvial river to a vertical offset of its bed. , 2007, , 179-184.		3
59	Erosion structures in laminar flumes. , 2009, , .		1
60	Reply to the Comment made by C. Gualtieri on "Turbulent mixing in the Amazon River: The isotopic memory of confluencesâ€; by J. Bouchez, E. Lajeunesse, J. Gaillardet, C. France-Lanord, P. Dutra-Maia and L. Maurice. Earth and Planetary Science Letters, 2011, 311, 451-452.	4.4	0
61	Incision dynamics and shear stress measurements in submarine channels experiments. , 2006, , .		0
62	Modelling of dune patterns by short range interactions. , 2006, , .		0
63	Physically-based model of downstream fining in bedrock streams with side input and verification with field data. , 2007, , 571-579.		0