Julien Chauchat

List of Publications by Year in descending order

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394421 434195 42 983 19 31 citations h-index g-index papers 52 52 52 655 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	An Eulerian two-phase flow model investigation on scour onset and backfill of a 2D pipeline. European Journal of Mechanics, B/Fluids, 2022, 91, 10-26.	2.5	8
2	Controversial turbulent Schmidt number value in particle-laden boundary layer flows. Physical Review Fluids, 2022, 7, .	2.5	1
3	Bedload and Concentration Effects on Turbulent Suspension Properties in Heavy Particle Sheet Flows. Journal of Hydraulic Engineering, 2022, 148, .	1.5	5
4	Numerical investigation of unsteady effects in oscillatory sheet flows. Journal of Fluid Mechanics, 2022, 943, .	3.4	5
5	Experiments on a single large particle segregating in bedload transport. Physical Review Fluids, 2022, 7, .	2.5	1
6	A Numerical Study of Onshore Ripple Migration Using a Eulerian Twoâ€phase Model. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016773.	2.6	8
7	A finite-size correction model for two-fluid large-eddy simulation of particle-laden boundary layer flow. Journal of Fluid Mechanics, 2021, 913, .	3.4	5
8	Bridging the gap between particle-scale forces and continuum modelling of size segregation: application to bedload transport. Journal of Fluid Mechanics, 2021, 916, .	3.4	9
9	Eulerian Twoâ€Phase Model Reveals the Importance of Wave Period in Ripple Evolution and Equilibrium Geometry. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006132.	2.8	1
10	A two-fluid model for immersed granular avalanches with dilatancy effects. Journal of Fluid Mechanics, 2021, 925, .	3.4	8
11	Discrete and continuum modelling of grain size segregation during bedload transport. Journal of Fluid Mechanics, 2020, 895, .	3.4	19
12	Three-dimensional scour simulations with a two-phase flow model. Advances in Water Resources, 2020, 138, 103544.	3.8	24
13	Experimental evidence of settling retardation in a turbulence column. Physical Review Fluids, 2020, 5, .	2.5	6
14	Mobility of bidisperse mixtures during bedload transport. Physical Review Fluids, 2020, 5, .	2.5	7
15	Scour at Bridge Foundations in Supercritical Flows: An Analysis of Knowledge Gaps. Water (Switzerland), 2019, 11, 1656.	2.7	10
16	Two-Phase Flow Simulation of Tunnel and Lee-Wake Erosion of Scour below a Submarine Pipeline. Water (Switzerland), 2019, 11, 1727.	2.7	18
17	Revisiting slope influence in turbulent bedload transport: consequences for vertical flow structure and transport rate scaling. Journal of Fluid Mechanics, 2018, 839, 135-156.	3.4	27
18	An Eulerian two-phase model for steady sheet flow using large-eddy simulation methodology. Advances in Water Resources, 2018, 111, 205-223.	3.8	27

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19	A comprehensive two-phase flow model for unidirectional sheet-flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 15-28.	1.7	34
20	Eddy interaction model for turbulent suspension in Reynolds-averaged Euler–Lagrange simulations of steady sheet flow. Advances in Water Resources, 2018, 111, 435-451.	3.8	20
21	On bedload measurement performances of high-resolution acoustic (ACVP) and conductivity (CCP) profilers. E3S Web of Conferences, 2018, 40, 04007.	0.5	O
22	Vertical grain size sorting in bedload transport on steep slopes with a coupled fluid-discrete element model. E3S Web of Conferences, 2018, 40, 04013.	0.5	0
23	On Bedload and Suspended Load Measurement Performances in Sheet Flows Using Acoustic and Conductivity Profilers. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2546-2562.	2.8	17
24	Application of a Eulerian two-phase flow model to scour processes. E3S Web of Conferences, 2018, 40, 05015.	0.5	3
25	A Numerical Study of Sheet Flow Under Monochromatic Nonbreaking Waves Using a Free Surface Resolving Eulerian Twoâ€Phase Flow Model. Journal of Geophysical Research: Oceans, 2018, 123, 4693-4719.	2.6	24
26	SedFoam-2.0: a 3-D two-phase flow numerical model for sediment transport. Geoscientific Model Development, 2017, 10, 4367-4392.	3.6	66
27	Investigation of vertical size segregation in bedload sediment transport with a coupled fluid-discrete element model. EPJ Web of Conferences, 2017, 140, 09025.	0.3	0
28	Dense granular flow rheology in turbulent bedload transport. Journal of Fluid Mechanics, 2016, 804, 490-512.	3.4	53
29	Turbulence modifications induced by the bed mobility in intense sediment-laden flows. Journal of Fluid Mechanics, 2016, 808, 469-484.	3.4	20
30	Investigation of sheet-flow processes based on novel acoustic high-resolution velocity and concentration measurements – ERRATUM. Journal of Fluid Mechanics, 2015, 769, 723-724.	3.4	1
31	A minimal coupled fluid-discrete element model for bedload transport. Physics of Fluids, 2015, 27, .	4.0	46
32	Microscopic origins of shear stress in dense fluid–grain mixtures. Granular Matter, 2015, 17, 297-309.	2.2	19
33	Investigation of sheet-flow processes based on novel acoustic high-resolution velocity and concentration measurements. Journal of Fluid Mechanics, 2015, 767, 1-30. A three-dimensional numerical model for dense granular flows based on the <mml:math< td=""><td>3.4</td><td>70</td></mml:math<>	3.4	70
34	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"> <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>\frac{1}{4}</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>I</mml:mi><mml:mo) (stre<="" 0="" 10="" 132="" 50="" etqq0="" overlock="" rgbt="" td="" tf="" tj=""><td>etch³y="fals</td><td>se">)²/mml:m</td></mml:mo)></mml:math>	etch³y="fals	se">)²/mml:m
35	696-712. Investigation of the mobile granular layer in bedload transport by laminar shearing flows. Journal of Fluid Mechanics, 2013, 736, 594-615.	3.4	78
36	A twoâ€phase model for sheet flow regime based on dense granular flow rheology. Journal of Geophysical Research: Oceans, 2013, 118, 619-634.	2.6	63

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37	Modelling sedimentation–consolidation in the framework of a one-dimensional two-phase flow model. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 293-305.	1.7	30
38	Simulation of dredged sediment releases into homogeneous water using a two-phase model. Advances in Water Resources, 2012, 48, 102-112.	3.8	23
39	A three-dimensional numerical model for incompressible two-phase flow of a granular bed submitted to a laminar shearing flow. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 439-449.	6.6	44
40	A two-phase numerical model for suspended-sediment transport in estuaries. Advances in Water Resources, 2009, 32, 1187-1196.	3.8	42
41	Simulation of the turbidity maximum in the Seine estuary with a two-phase flow model. Comptes Rendus - Geoscience, 2009, 341, 505-512.	1.2	8
42	On turbulence closures for twoâ€phase sedimentâ€laden flow models. Journal of Geophysical Research, 2008, 113, .	3.3	39