

Rui M L Ferreira

List of Publications by Year in descending order

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54
papers

978
citations

430874

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h-index

454955

30
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60
all docs

60
docs citations

60
times ranked

873
citing authors

#	ARTICLE	IF	CITATIONS
1	SPH-DCDEM model for arbitrary geometries in free surface solid-fluid flows. Computer Physics Communications, 2016, 202, 131-140.	7.5	98
2	Dam-break flows over mobile beds: experiments and benchmark tests for numerical models. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 364-375.	1.7	91
3	A Smooth Particle Hydrodynamics discretization for the modelling of free surface flows and rigid body dynamics. International Journal for Numerical Methods in Fluids, 2015, 78, 581-593.	1.6	66
4	A numerical tool for modelling oscillating wave surge converter with nonlinear mechanical constraints. Renewable Energy, 2020, 146, 2024-2043.	8.9	59
5	Dam-Break Wave-Front Celerity. Journal of Hydraulic Engineering, 2006, 132, 69-76.	1.5	50
6	Parameterization of the logarithmic layer of double-averaged streamwise velocity profiles in gravel-bed river flows. Advances in Water Resources, 2008, 31, 915-925.	3.8	48
7	Resolved Simulation of a Granular-Fluid Flow with a Coupled SPH-DCDEM Model. Journal of Hydraulic Engineering, 2017, 143, .	1.5	43
8	The terms of turbulent kinetic energy budget within random arrays of emergent cylinders. Water Resources Research, 2014, 50, 4131-4148.	4.2	41
9	The von Kármán constant for flows over rough mobile beds. Lessons learned from dimensional analysis and similarity. Advances in Water Resources, 2015, 81, 19-32.	3.8	37
10	Discussion of "Laboratory Investigation of Mean Drag in a Random Array of Rigid, Emergent Cylinders" by Yukie Tanino and Heidi M. Nepf. Journal of Hydraulic Engineering, 2009, 135, 690-693.	1.5	27
11	Flow over rough mobile beds: Friction factor and vertical distribution of the longitudinal mean velocity. Water Resources Research, 2012, 48, .	4.2	27
12	Impacts of sand transport on flow variables and dissolved oxygen in gravel-bed streams suitable for salmonid spawning. River Research and Applications, 2010, 26, 414-438.	1.7	26
13	Turbulent Flows within Random Arrays of Rigid and Emergent Cylinders with Varying Distribution. Journal of Hydraulic Engineering, 2016, 142, 04016022.	1.5	26
14	Mathematical modelling of shallow flows: Closure models drawn from grain-scale mechanics of sediment transport and flow hydrodynamics This paper is one of a selection of papers in this Special Issue in honour of Professor M. Selim Yalin (1925-2007).. Canadian Journal of Civil Engineering, 2009, 36, 1605-1621.	1.3	24
15	Two-dimensional depth-averaged modelling of dam-break flows over mobile beds. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 392-407.	1.7	24
16	A Review on Hydrodynamics of Free Surface Flows in Emergent Vegetated Channels. Water (Switzerland), 2020, 12, 1218.	2.7	24
17	Experimental investigation on the power capture of an oscillating wave surge converter in unidirectional waves. Renewable Energy, 2020, 151, 975-992.	8.9	23
18	Direct Estimate of the Breach Hydrograph of an Overtopped Earth Dam. Journal of Hydraulic Engineering, 2017, 143, .	1.5	18

#	ARTICLE	IF	CITATIONS
19	Maximum Level and Time to Peak of Dam-Break Waves on Mobile Horizontal Bed. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 995-999.	1.5	17
20	Three-dimensional flow structure at fixed 70° open-channel confluence with bed discordance. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 434-446.	1.7	16
21	Comparison Between Two Hydrodynamic Models for Flooding Simulations at River Lima Basin. <i>Water Resources Management</i> , 2015, 29, 431-444.	3.9	13
22	Turbulent flow structure in a vegetated non-prismatic compound channel. <i>River Research and Applications</i> , 2020, 36, 1868-1878.	1.7	13
23	piv-image-generator: An image generating software package for planar PIV and Optical Flow benchmarking. <i>SoftwareX</i> , 2020, 12, 100537.	2.6	13
24	Comparative analysis of particle image velocimetry and acoustic Doppler velocimetry in relation to a pool-type fishway flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 582-591.	1.7	11
25	A comparative study of optical flow methods for fluid mechanics. <i>Experiments in Fluids</i> , 2022, 63, 1.	2.4	11
26	Designing Experiments to Study Dam Breach Hydraulic Phenomena. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	10
27	Geomorphic dam-break flows. Part II: numerical simulation. <i>Water Management</i> , 2010, 163, 305-313.	1.2	9
28	Geomorphic dam-break flows. Part I: conceptual model. <i>Water Management</i> , 2010, 163, 297-304.	1.2	8
29	Turbulent Flow Hydrodynamics and Sediment Transport: Laboratory Research with LDA and PIV. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2011, , 67-111.	0.2	8
30	Severity and exposure associated with tsunami actions in urban waterfronts: the case of Lisbon, Portugal. <i>Natural Hazards</i> , 2015, 79, 2125-2144.	3.4	8
31	Experimental and Numerical Studies of Dynamic Behaviors of a Hydraulic Power Take-Off Cylinder Using Spectral Representation Method. <i>Journal of Tribology</i> , 2018, 140, .	1.9	8
32	Experimental methods for local-scale characterization of hydro-morphodynamic dam breach processes. Breach detection, 3D reconstruction, flow kinematics and spatial surface velocimetry. <i>Flow Measurement and Instrumentation</i> , 2019, 70, 101658.	2.0	8
33	PIV Characterization of Transient Flow in Pipe Coils. <i>Procedia Engineering</i> , 2014, 89, 1358-1365.	1.2	7
34	Vortex shedding and vorticity fluxes in the wake of cylinders within a random array. <i>Journal of Turbulence</i> , 2016, 17, 999-1014.	1.4	7
35	Experimental Investigation of the Flow Field in the Vicinity of an Oscillating Wave Surge Converter. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 976.	2.6	7
36	A shallow-flow model for the propagation of tsunamis over complex geometries and mobile beds. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 2533-2542.	3.6	6

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37	Experimental Study of the Transient Flow in a Coiled Pipe Using PIV. Journal of Hydraulic Engineering, 2017, 143, .	1.5	6
38	A unified object-oriented framework for CPU+GPU explicit hyperbolic solvers. Advances in Engineering Software, 2020, 148, 102802.	3.8	6
39	Numerical simulations of turbulent flows within an infinite array of randomly placed cylinders. Journal of Fluids and Structures, 2018, 80, 245-261.	3.4	5
40	Hydro-morphodynamics of an Open-Channel Confluence With Bed Discordance at Dynamic Equilibrium. Water Resources Research, 2022, 58, .	4.2	5
41	A particle counting system for calculation of bedload fluxes. Measurement Science and Technology, 2016, 27, 125305.	2.6	4
42	The Logarithmic Law of the Wall in Flows over Mobile Lattice-Arranged Granular Beds. Water (Switzerland), 2019, 11, 1166.	2.7	4
43	Principles of Bedload Transport of Non-cohesive Sediment in Open-Channels. GeoPlanet: Earth and Planetary Sciences, 2015, , 323-372.	0.2	4
44	Wave-like motion and secondary currents in arrays of emergent cylinders induced by large scale eddying motion. Environmental Fluid Mechanics, 2022, 22, 403-428.	1.6	4
45	Predicting the flow in the floodplains with evolving land occupations during extreme flood events (FlowRes ANR project). E3S Web of Conferences, 2016, 7, 04004.	0.5	3
46	A circular cylinder in the main-channel/floodplain interface of a compound channel: effect of the shear flow on drag and lift. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 420-433.	1.7	2
47	Kinematics of Particles at Entrainment and Disentrainment. Water (Switzerland), 2020, 12, 2110.	2.7	2
48	Drag on a Square-Cylinder Array Placed in the Mixing Layer of a Compound Channel. Water (Switzerland), 2021, 13, 3225.	2.7	1
49	Discussion of "Coupled and Decoupled Numerical Modeling of Flow and Morphological Evolution in Alluvial Rivers" by Zhixian Cao, Rodney Day, and Shinji Egashira. Journal of Hydraulic Engineering, 2003, 129, 741-742.	1.5	0
50	Closure to "Dam-Break Wave-Front Celerity" by João Leal, Rui Ferreira, and António Cardoso. Journal of Hydraulic Engineering, 2008, 134, 867-869.	1.5	0
51	2D Simulation of Discontinuous Shallow Flows. GeoPlanet: Earth and Planetary Sciences, 2011, , 141-153.	0.2	0
52	LES modelling of a flow within an infinite array of randomly placed cylinders: Anisotropy characterization. E3S Web of Conferences, 2018, 40, 02035.	0.5	0
53	Drag determination of an array of square cylinders subjected to shear flow in a compound channel. E3S Web of Conferences, 2018, 40, 06020.	0.5	0
54	W.A.T.E.R. "a structured approach for training on advanced measurement and experimental research. Geoscience Communication, 2022, 5, 143-150.	0.9	0