Rui M L Ferreira

List of Publications by Year
in descending order

54	978	430874 18	454955 30
papers	citations	h-index	g-index

60	60	60	873
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydroâ€Morphodynamics of an Openâ€Channel Confluence With Bed Discordance at Dynamic Equilibrium. Water Resources Research, 2022, 58, .	4.2	5
2	A comparative study of optical flow methods for fluid mechanics. Experiments in Fluids, 2022, 63, 1.	2.4	11
3	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
4	W.A.T.E.R. â€“ a structured approach for training on advanced measurement and experimental research. Geoscience Communication, 2022, 5, 143-150.	0.9	0
5	Drag on a Square-Cylinder Array Placed in the Mixing Layer of a Compound Channel. Water (Switzerland), 2021, 13, 3225.	2.7	1
6	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
7	Three-dimensional flow structure at fixed 70Â° open-channel confluence with bed discordance. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 434-446.	1.7	16
8	A numerical tool for modelling oscillating wave surge converter with nonlinear mechanical constraints. Renewable Energy, 2020, 146, 2024-2043.	8.9	59
9	Experimental investigation on the power capture of an oscillating wave surge converter in unidirectional waves. Renewable Energy, 2020, 151, 975-992.	8.9	23
10	Turbulent flow structure in a vegetated <scp>nonâ€prismatic</scp> compound channel. River Research and Applications, 2020, 36, 1868-1878.	1.7	13
11	A unified object-oriented framework for CPU+GPU explicit hyperbolic solvers. Advances in Engineering Software, 2020, 148, 102802.	3.8	6
12	Experimental Investigation of the Flow Field in the Vicinity of an Oscillating Wave Surge Converter. Journal of Marine Science and Engineering, 2020, 8, 976.	2.6	7
13	Kinematics of Particles at Entrainment and Disentrainment. Water (Switzerland), 2020, 12, 2110.	2.7	2
14	piv-image-generator: An image generating software package for planar PIV and Optical Flow benchmarking. SoftwareX, 2020, 12, 100537.	2.6	13
15	Designing Experiments to Study Dam Breach Hydraulic Phenomena. Journal of Hydraulic Engineering, 2020, 146, .	1.5	10
16	A Review on Hydrodynamics of Free Surface Flows in Emergent Vegetated Channels. Water (Switzerland), 2020, 12, 1218.	2.7	24
17	Experimental methods for local-scale characterization of hydro-morphodynamic dam breach processes. Breach detection, 3D reconstruction, flow kinematics and spatial surface velocimetry. Flow Measurement and Instrumentation, 2019, 70, 101658.	2.0	8
18	The Logarithmic Law of the Wall in Flows over Mobile Lattice-Arranged Granular Beds. Water (Switzerland), 2019, 11, 1166.	2.7	4

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19	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
20	Experimental and Numerical Studies of Dynamic Behaviors of a Hydraulic Power Take-Off Cylinder Using Spectral Representation Method. Journal of Tribology, 2018, 140, .	1.9	8
21	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
22	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
23	Comparative analysis of particle image velocimetry and acoustic Doppler velocimetry in relation to a pool-type fishway flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 582-591.	1.7	11
24	Direct Estimate of the Breach Hydrograph of an Overtopped Earth Dam. Journal of Hydraulic Engineering, 2017, 143, .	1.5	18
25	Resolved Simulation of a Granular-Fluid Flow with a Coupled SPH-DCDEM Model. Journal of Hydraulic Engineering, 2017, 143, .	1.5	43
26	Experimental Study of the Transient Flow in a Coiled Pipe Using PIV. Journal of Hydraulic Engineering, 2017, 143, .	1.5	6
27	A particle counting system for calculation of bedload fluxes. Measurement Science and Technology, 2016, 27, 125305.	2.6	4
28	Turbulent Flows within Random Arrays of Rigid and Emergent Cylinders with Varying Distribution. Journal of Hydraulic Engineering, 2016, 142, 04016022.	1.5	26
29	Vortex shedding and vorticity fluxes in the wake of cylinders within a random array. Journal of Turbulence, 2016, 17, 999-1014.	1.4	7
30	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
31	SPHâ€“DCDEM model for arbitrary geometries in free surface solidâ€“fluid flows. Computer Physics Communications, 2016, 202, 131-140.	7.5	98
32	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
33	Severity and exposure associated with tsunami actions in urban waterfronts: the case of Lisbon, Portugal. Natural Hazards, 2015, 79, 2125-2144.	3.4	8
34	The von KÃ¡rmÃ¡n 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
35	Comparison Between Two Hydrodynamic Models for Flooding Simulations at River Lima Basin. Water Resources Management, 2015, 29, 431-444.	3.9	13
36	Principles of Bedload Transport of Non-cohesive Sediment in Open-Channels. GeoPlanet: Earth and Planetary Sciences, 2015, , 323-372.	0.2	4

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37	The terms of turbulent kinetic energy budget within random arrays of emergent cylinders. Water Resources Research, 2014, 50, 4131-4148.	4.2	41
38	PIV Characterization of Transient Flow in Pipe Coils. Procedia Engineering, 2014, 89, 1358-1365.	1.2	7
39	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
40	A shallow-flow model for the propagation of tsunamis over complex geometries and mobile beds. Natural Hazards and Earth System Sciences, 2013, 13, 2533-2542.	3.6	6
41	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
42	Flow over rough mobile beds: Friction factor and vertical distribution of the longitudinal mean velocity. Water Resources Research, 2012, 48, .	4.2	27
43	Turbulent Flow Hydrodynamics and Sediment Transport: Laboratory Research with LDA and PIV. GeoPlanet: Earth and Planetary Sciences, 2011, , 67-111.	0.2	8
44	2D Simulation of Discontinuous Shallow Flows. GeoPlanet: Earth and Planetary Sciences, 2011, , 141-153.	0.2	0
45	Impacts of sand transport on flow variables and dissolved oxygen in gravelâ€bed streams suitable for salmonid spawning. River Research and Applications, 2010, 26, 414-438.	1.7	26
46	Geomorphic dam-break flows. Part I: conceptual model. Water Management, 2010, 163, 297-304.	1.2	8
47	Geomorphic dam-break flows. Part II: numerical simulation. Water Management, 2010, 163, 305-313.	1.2	9
48	Discussion of â€œLaboratory Investigation of Mean Drag in a Random Array of Rigid, Emergent Cylindersâ€• by Yukie Tanino and Heidi M. Nepf. Journal of Hydraulic Engineering, 2009, 135, 690-693.	1.5	27
49	Maximum Level and Time to Peak of Dam-Break Waves on Mobile Horizontal Bed. Journal of Hydraulic Engineering, 2009, 135, 995-999.	1.5	17
50	Mathematical modelling of shallow flows: Closure models drawn from grain-scale mechanics of sediment transport and flow hydrodynamicsThis paper is one of a selection of papers in this Special Issue in honour of Professor M. Selim Yalin (1925â€“2007).. Canadian Journal of Civil Engineering, 2009, 36, 1605-1621.	1.3	24
51	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
52	Closure to â€œDam-Break Wave-Front Celerityâ€•by JoÃ£o Leal, Rui Ferreira, and AntÃ³nio Cardoso. Journal of Hydraulic Engineering, 2008, 134, 867-869.	1.5	0
53	Dam-Break Wave-Front Celerity. Journal of Hydraulic Engineering, 2006, 132, 69-76.	1.5	50
54	Discussion of â€œCoupled and Decoupled Numerical Modeling of Flow and Morphological Evolution in Alluvial Riversâ€•by Zhixian Cao, Rodney Day, and Shinji Egashira. Journal of Hydraulic Engineering, 2003, 129, 741-742.	1.5	0