Gianluca Blois

List of Publications by Year
in descending order

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27	575	516710 16	610901 24
papers	citations	h-index	g-index

28	28	28	591
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying the flow dynamics of supercritical CO2â€“water displacement in a 2D porous micromodel using fluorescent microscopy and microscopic PIV. Advances in Water Resources, 2016, 95, 352-368.	3.8	62
2	Effect of bed permeability and hyporheic flow on turbulent flow over bed forms. Geophysical Research Letters, 2014, 41, 6435-6442.	4.0	50
3	Microâ€<scp>PIV</scp> measurements of multiphase flow of water and liquid <scp>CO</scp>₂ in 2â€<scp>D</scp> heterogeneous porous micromodels. Water Resources Research, 2017, 53, 6178-6196.	4.2	39
4	A microscopic particle image velocimetry method for studying the dynamics of immiscible liquidâ€“liquid interactions in a porous micromodel. Microfluidics and Nanofluidics, 2015, 18, 1391-1406.	2.2	38
5	A methodology for velocity field measurement in multiphase highâ€pressure flow of CO₂ and water in micromodels. Water Resources Research, 2015, 51, 3017-3029.	4.2	37
6	Turbulence Links Momentum and Solute Exchange in Coarseâ€Grained Streambeds. Water Resources Research, 2018, 54, 3225-3242.	4.2	36
7	Experimental evidence of amplitude modulation in permeable-wall turbulence. Journal of Fluid Mechanics, 2020, 887, .	3.4	34
8	Quantifying the dynamics of flow within a permeable bed using time-resolved endoscopic particle imaging velocimetry (EPIV). Experiments in Fluids, 2012, 53, 51-76.	2.4	31
9	Turbulent Flow Structure Associated With Collision Between Laterally Offset, Fixedâ€Bed Barchan Dunes. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2157-2188.	2.8	29
10	A numerical investigation into the importance of bed permeability on determining flow structures over river dunes. Water Resources Research, 2017, 53, 3067-3086.	4.2	27
11	Experimental study of turbulent flow over and within cubically packed walls of spheres: Effects of topography, permeability and wall thickness. International Journal of Heat and Fluid Flow, 2018, 73, 16-29.	2.4	26
12	Spatial Scales of Turbulent Flow Structures Associated With Interacting Barchan Dunes. Journal of Geophysical Research F: Earth Surface, 2019, 124, 1175-1200.	2.8	22
13	Volumetric Velocity Measurements in the Wake of a Hemispherical Roughness Element. AIAA Journal, 2017, 55, 2158-2173.	2.6	20
14	Highâ€Speed Quantification of Poreâ€Scale Multiphase Flow of Water and Supercritical CO 2 in 2â€D Heterogeneous Porous Micromodels: Flow Regimes and Interface Dynamics. Water Resources Research, 2019, 55, 3758-3779.	4.2	20
15	Secondary Flows and Vortex Structure Associated With Isolated and Interacting Barchan Dunes. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005257.	2.8	18
16	Numerical and experimental study of flow over stages of an offset merger dune interaction. Computers and Fluids, 2017, 158, 72-83.	2.5	16
17	PIV measurements of turbulent flow overlying large, cubic- and hexagonally-packed hemisphere arrays. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 363-383.	1.7	13
18	A versatile refractive-index-matched flow facility for studies of complex flow systems across scientific disciplines. , 2012, , .		11

#	Article	IF	Citations
19	A particle-based image segmentation method for phase separation and interface detection in PIV images of immiscible multiphase flow. Measurement Science and Technology, 2021, 32, 095208.	2.6	10
20	Novel Environment Enables PIV Measurements of Turbulent Flow around and within Complex Topographies. Journal of Hydraulic Engineering, 2020, 146, 04020033.	1.5	9
21	Wall effects on the flow structure around a rectangular cylinder. Meccanica, 2012, 47, 805-815.	2.0	5
22	The Effect of Biofilms on Turbulent Flow Over Permeable Beds. Water Resources Research, 2021, 57, e2019WR026032.	4.2	4
23	Unsteady dynamics of turbulent flow in the wakes of barchan dunes modulated by overlying boundary-layer structure. Journal of Fluid Mechanics, 2021, 920, .	3.4	4
24	Flow Past Mound-Bearing Impact Craters: An Experimental Study. Fluids, 2021, 6, 216.	1.7	3
25	Pore-Scale Dynamics of Liquid CO2â€“Water Displacement in 2D Axisymmetric Porous Micromodels Under Strong Drainage and Weak Imbibition Conditions: High-Speed Ï¼PIV Measurements. Frontiers in Water, 2021, 3, .	2.3	2
26	MICRO-PIV STUDY OF MULTIPHASE FLOW OF WATER AND SUPERCRITICAL CO₂IN 2D HETEROGENEOUS POROUS MICROMODELS AT RESERVOIR CONDITIONS. , 2016, , .		2
27	A Methodology for Studying the Hydroelastic Response of Submerged Flexible Vegetation. Water Resources Research, 2022, 58, .	4.2	2