

Gianluca Blois

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4032490/publications.pdf>

Version: 2024-02-01

27
papers

575
citations

516710

16
h-index

610901

24
g-index

28
all docs

28
docs citations

28
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	A Methodology for Studying the Hydroelastic Response of Submerged Flexible Vegetation. <i>Water Resources Research</i> , 2022, 58, .	4.2	2
2	The Effect of Biofilms on Turbulent Flow Over Permeable Beds. <i>Water Resources Research</i> , 2021, 57, e2019WR026032.	4.2	4
3	Unsteady dynamics of turbulent flow in the wakes of barchan dunes modulated by overlying boundary-layer structure. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	4
4	A particle-based image segmentation method for phase separation and interface detection in PIV images of immiscible multiphase flow. <i>Measurement Science and Technology</i> , 2021, 32, 095208.	2.6	10
5	Flow Past Mound-Bearing Impact Craters: An Experimental Study. <i>Fluids</i> , 2021, 6, 216.	1.7	3
6	Pore-Scale Dynamics of Liquid CO ₂ -Water Displacement in 2D Axisymmetric Porous Micromodels Under Strong Drainage and Weak Imbibition Conditions: High-Speed PIV Measurements. <i>Frontiers in Water</i> , 2021, 3, .	2.3	2
7	PIV measurements of turbulent flow overlying large, cubic- and hexagonally-packed hemisphere arrays. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020, 58, 363-383.	1.7	13
8	Novel Environment Enables PIV Measurements of Turbulent Flow around and within Complex Topographies. <i>Journal of Hydraulic Engineering</i> , 2020, 146, 04020033.	1.5	9
9	Secondary Flows and Vortex Structure Associated With Isolated and Interacting Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005257.	2.8	18
10	Experimental evidence of amplitude modulation in permeable-wall turbulence. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	3.4	34
11	High-Speed Quantification of Pore-Scale Multiphase Flow of Water and Supercritical CO ₂ in 2D Heterogeneous Porous Micromodels: Flow Regimes and Interface Dynamics. <i>Water Resources Research</i> , 2019, 55, 3758-3779.	4.2	20
12	Spatial Scales of Turbulent Flow Structures Associated With Interacting Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1175-1200.	2.8	22
13	Turbulence Links Momentum and Solute Exchange in Coarse-Grained Streambeds. <i>Water Resources Research</i> , 2018, 54, 3225-3242.	4.2	36
14	Turbulent Flow Structure Associated With Collision Between Laterally Offset, Fixed-Bed Barchan Dunes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2157-2188.	2.8	29
15	Experimental study of turbulent flow over and within cubically packed walls of spheres: Effects of topography, permeability and wall thickness. <i>International Journal of Heat and Fluid Flow</i> , 2018, 73, 16-29.	2.4	26
16	A numerical investigation into the importance of bed permeability on determining flow structures over river dunes. <i>Water Resources Research</i> , 2017, 53, 3067-3086.	4.2	27
17	Volumetric Velocity Measurements in the Wake of a Hemispherical Roughness Element. <i>AIAA Journal</i> , 2017, 55, 2158-2173.	2.6	20
18	Micro-PIV measurements of multiphase flow of water and liquid CO ₂ in 2D heterogeneous porous micromodels. <i>Water Resources Research</i> , 2017, 53, 6178-6196.	4.2	39

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental study of flow over stages of an offset merger dune interaction. <i>Computers and Fluids</i> , 2017, 158, 72-83.	2.5	16
20	Quantifying the flow dynamics of supercritical CO ₂ –water displacement in a 2D porous micromodel using fluorescent microscopy and microscopic PIV. <i>Advances in Water Resources</i> , 2016, 95, 352-368.	3.8	62
21	MICRO-PIV STUDY OF MULTIPHASE FLOW OF WATER AND SUPERCRITICAL CO ₂ IN 2D HETEROGENEOUS POROUS MICROMODELS AT RESERVOIR CONDITIONS. , 2016, ,		2
22	A methodology for velocity field measurement in multiphase high-pressure flow of CO ₂ and water in micromodels. <i>Water Resources Research</i> , 2015, 51, 3017-3029.	4.2	37
23	A microscopic particle image velocimetry method for studying the dynamics of immiscible liquid–liquid interactions in a porous micromodel. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 1391-1406.	2.2	38
24	Effect of bed permeability and hyporheic flow on turbulent flow over bed forms. <i>Geophysical Research Letters</i> , 2014, 41, 6435-6442.	4.0	50
25	A versatile refractive-index-matched flow facility for studies of complex flow systems across scientific disciplines. , 2012, ,		11
26	Wall effects on the flow structure around a rectangular cylinder. <i>Meccanica</i> , 2012, 47, 805-815.	2.0	5
27	Quantifying the dynamics of flow within a permeable bed using time-resolved endoscopic particle imaging velocimetry (EPIV). <i>Experiments in Fluids</i> , 2012, 53, 51-76.	2.4	31