

Carlo Camporeale

List of Publications by Year in descending order

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79
papers

2,411
citations

257101

24
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214527

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89
docs citations

89
times ranked

1888
citing authors

#	ARTICLE	IF	CITATIONS
1	MODELING THE INTERACTIONS BETWEEN RIVER MORPHODYNAMICS AND RIPARIAN VEGETATION. <i>Reviews of Geophysics</i> , 2013, 51, 379-414.	9.0	186
2	Hierarchy of models for meandering rivers and related morphodynamic processes. <i>Reviews of Geophysics</i> , 2007, 45, .	9.0	180
3	Significance of the riparian vegetation dynamics on meandering river morphodynamics. <i>Water Resources Research</i> , 2007, 43, .	1.7	170
4	Sinuosity-driven hyporheic exchange in meandering rivers. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	159
5	On the long-term behavior of meandering rivers. <i>Water Resources Research</i> , 2005, 41, .	1.7	120
6	Riparian vegetation distribution induced by river flow variability: A stochastic approach. <i>Water Resources Research</i> , 2006, 42, .	1.7	108
7	Significance of cutoff in meandering river dynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	95
8	Effect of river flow fluctuations on riparian vegetation dynamics: Processes and models. <i>Advances in Water Resources</i> , 2017, 110, 29-50.	1.7	80
9	Biomass selection by floods and related timescales: Part 1. Experimental observations. <i>Advances in Water Resources</i> , 2012, 39, 85-96.	1.7	75
10	Intra-meander hyporheic flow in alluvial rivers. <i>Water Resources Research</i> , 2008, 44, .	1.7	72
11	Modelling river and riparian vegetation interactions and related importance for sustainable ecosystem management. <i>Aquatic Sciences</i> , 2009, 71, 266-278.	0.6	63
12	Modeling the impact of river damming on riparian vegetation. <i>Journal of Hydrology</i> , 2011, 396, 302-312.	2.3	62
13	Nonlinear analysis of the geometry of meandering rivers. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	52
14	Influence of river meandering dynamics on riparian vegetation pattern formation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	52
15	Estimation of the dispersion coefficient in rivers with riparian vegetation. <i>Advances in Water Resources</i> , 2009, 32, 78-87.	1.7	52
16	Interplay among river meandering, discharge stochasticity and riparian vegetation. <i>Journal of Hydrology</i> , 2010, 382, 138-144.	2.3	44
17	Impact of atrial fibrillation on the cardiovascular system through a lumped-parameter approach. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 905-920.	1.6	38
18	Managing floodplains using nature-based solutions to support multiple ecosystem functions and services. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1545.	2.8	37

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19	Parametric transitions between bare and vegetated states in water-driven patterns. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8125-8130.	3.3	35
20	A linear model for the coupled surface–subsurface flow in a meandering stream. Water Resources Research, 2010, 46, .	1.7	34
21	Role of discharge variability on pseudomeandering channel morphodynamics: Results from laboratory experiments. Journal of Geophysical Research, 2010, 115, .	3.3	31
22	A Density-Based Algorithm for the Detection of Individual Trees from LiDAR Data. Remote Sensing, 2021, 13, 322.	1.8	30
23	Ice ripple formation at large Reynolds numbers. Journal of Fluid Mechanics, 2012, 694, 225-251.	1.4	29
24	Modelling and Subject-Specific Validation of the Heart-Arterial Tree System. Annals of Biomedical Engineering, 2015, 43, 222-237.	1.3	25
25	Finite Amplitude of Free Alternate Bars With Suspended Load. Water Resources Research, 2018, 54, 9759-9773.	1.7	24
26	Channelization cascade in landscape evolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1375-1382.	3.3	24
27	Compensatory Effect between Aortic Stiffening and Remodelling during Ageing. PLoS ONE, 2015, 10, e0139211.	1.1	24
28	Hydrodynamic-Driven Stability Analysis of Morphological Patterns on Stalactites and Implications for Cave Paleoflow Reconstructions. Physical Review Letters, 2012, 108, 238501.	2.9	23
29	Noise–driven cooperative dynamics between vegetation and topography in riparian zones. Geophysical Research Letters, 2015, 42, 8021-8030.	1.5	23
30	Noise–induced phenomena in riparian vegetation dynamics. Geophysical Research Letters, 2007, 34, .	1.5	21
31	Interplay among unstable modes in films over permeable walls. Journal of Fluid Mechanics, 2013, 719, 527-550.	1.4	21
32	Rate Control Management of Atrial Fibrillation: May a Mathematical Model Suggest an Ideal Heart Rate?. PLoS ONE, 2015, 10, e0119868.	1.1	21
33	Inter-species competition–facilitation in stochastic riparian vegetation dynamics. Journal of Theoretical Biology, 2013, 318, 13-21.	0.8	18
34	Fluid dynamics of heart valves during atrial fibrillation: a lumped parameter-based approach. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1060-1068.	0.9	18
35	Modal versus nonmodal linear stability analysis of river dunes. Physics of Fluids, 2011, 23, .	1.6	17
36	Long-term morphological river response to hydrological changes. Advances in Water Resources, 2011, 34, 1643-1655.	1.7	15

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37	Bed evolution measurement with flowing water in morphodynamics experiments. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 818-827.	1.2	15
38	On the convective-absolute nature of river bedform instabilities. <i>Physics of Fluids</i> , 2014, 26, .	1.6	15
39	Ecomorphodynamics of rivers with converging boundaries. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1651-1662.	1.2	15
40	Hydrodynamically locked morphogenesis in karst and ice flutings. <i>Journal of Fluid Mechanics</i> , 2015, 778, 89-119.	1.4	15
41	Convective nature of the planimetric instability in meandering river dynamics. <i>Physical Review E</i> , 2006, 73, 026311.	0.8	14
42	Nonnormality and transient behavior of the de Saint-Venant-Exner equations. <i>Water Resources Research</i> , 2009, 45, .	1.7	14
43	Transient growth induces unexpected deterministic spatial patterns in the Turing process. <i>Europhysics Letters</i> , 2011, 95, 18003.	0.7	14
44	A spectral approach for the stability analysis of turbulent open-channel flows over granular beds. <i>Theoretical and Computational Fluid Dynamics</i> , 2012, 26, 51-80.	0.9	14
45	Ecogeomorphological feedbacks of water fluxes, sediment transport and vegetation dynamics in rivers and estuaries. <i>Advances in Water Resources</i> , 2016, 93, 151-155.	1.7	14
46	An Integrated Methodology to Study Riparian Vegetation Dynamics: From Field Data to Impact Modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002094.	1.3	14
47	Longitudinal dispersion in vegetated rivers with stochastic flows. <i>Advances in Water Resources</i> , 2010, 33, 562-571.	1.7	13
48	A shallow-water theory of river bedforms in supercritical conditions. <i>Physics of Fluids</i> , 2012, 24, .	1.6	13
49	Supraglacial channel inception: Modeling and processes. <i>Water Resources Research</i> , 2015, 51, 7044-7063.	1.7	13
50	Aris-Taylor dispersion in the subarachnoid space. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	13
51	Nonlinear and subharmonic stability analysis in film-driven morphological patterns. <i>Physical Review E</i> , 2017, 96, 053115.	0.8	11
52	Thin-film-induced morphological instabilities over calcite surfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150031.	1.0	10
53	Central Pressure Appraisal: Clinical Validation of a Subject-Specific Mathematical Model. <i>PLoS ONE</i> , 2016, 11, e0151523.	1.1	10
54	Recovery times of riparian vegetation. <i>Water Resources Research</i> , 2016, 52, 2934-2950.	1.7	9

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55	Non-invasive aortic systolic pressure and pulse wave velocity estimation in a primary care setting: An in silico study. <i>Medical Engineering and Physics</i> , 2017, 42, 91-98.	0.8	9
56	HYDROLOGICAL AND GEOMORPHOLOGICAL SIGNIFICANCE OF RIPARIAN VEGETATION IN DRYLANDS. , 2006, , 161-179.		9
57	Convective-absolute nature of ripple instabilities on ice and icicles. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	9
58	River bedform inception by flow unsteadiness: A modal and nonmodal analysis. <i>Physical Review E</i> , 2016, 93, 053110.	0.8	7
59	Satellite Image Processing for the Coarse-Scale Investigation of Sandy Coastal Areas. <i>Remote Sensing</i> , 2021, 13, 4613.	1.8	7
60	Transient growths of stable modes in riverbed dynamics. <i>Europhysics Letters</i> , 2012, 100, 64002.	0.7	6
61	An asymptotic approach to the crenulation instability. <i>Journal of Fluid Mechanics</i> , 2017, 826, 636-652.	1.4	6
62	The hydrodynamic genesis of linear karren patterns. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	1.4	5
63	Hydrological and Geomorphological Significance of Riparian Vegetation in Drylands. , 2019, , 239-275.		5
64	Solution for the statistical moments of scalar turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	5
65	Effect of sampling time in the laboratory investigation of braided rivers. <i>Water Resources Research</i> , 2017, 53, 5184-5197.	1.7	4
66	Level-crossing statistics of a passive scalar dispersed in a neutral boundary layer. <i>Atmospheric Environment</i> , 2020, 230, 117518.	1.9	4
67	Flow non-normality-induced transient growth in superposed Newtonian and non-Newtonian fluid layers. <i>Physical Review E</i> , 2009, 80, 036312.	0.8	3
68	Parametric resonance in unsteady watertable flow. <i>Journal of Fluid Mechanics</i> , 2015, 768, 524-548.	1.4	3
69	Modeling fluid-structure interactions between cerebro-spinal fluid and the spinal cord. <i>Journal of Fluids and Structures</i> , 2021, 102, 103251.	1.5	3
70	Stability analysis of open-channel flows with secondary currents. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	1.4	3
71	Satellite Analyses Unravel the Multi-Decadal Impact of Dam Management on Tropical Floodplain Vegetation. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	3
72	Hydraulics of braided river dynamics. Insights from flume experiments. <i>E3S Web of Conferences</i> , 2018, 40, 02020.	0.2	2

#	ARTICLE	IF	CITATIONS
73	P5.5 COMPENSATORY EFFECT BETWEEN AORTIC STIFFENING AND REMODELLING DURING AGEING. Artery Research, 2015, 12, 21.	0.3	1
74	Genesis of wavy carbonate flowstone deposits in Bossea Cave (North Italy) and their hydroclimatic significance. Catena, 2022, 214, 106294.	2.2	1
75	Coherence resonance in paleoclimatic modeling. Climate Dynamics, 0, , .	1.7	1
76	Reply to comment by S. Nadarajah on "Riparian vegetation distribution induced by river flow variability: A stochastic approach". Water Resources Research, 2007, 43, .	1.7	0
77	A lumped hydrodynamic model to assess ageing and hypertension effects on the aortic stiffness. European Journal of Mechanics, B/Fluids, 2012, 35, 111-116.	1.2	0
78	P11.4 INVESTIGATION OF THE ARTERIAL AGEING AND ISOLATED SYSTOLIC HYPERTENSION BY FLUID DYNAMICS-BASED MODELLING. Artery Research, 2014, 8, 161.	0.3	0
79	P5.4 CENTRAL PRESSURE APPRAISAL: CLINICAL VALIDATION OF A SUBJECT-SPECIFIC MATHEMATICAL MODEL. Artery Research, 2015, 12, 21.	0.3	0