

Luca Ridolfi

List of Publications by Year in descending order

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Version: 2024-02-01

272
papers

13,599
citations

25034

57
h-index

28297

105
g-index

277
all docs

277
docs citations

277
times ranked

10661
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational analysis of atrial fibrillation effects on coronary perfusion across the different myocardial layers. <i>Scientific Reports</i> , 2022, 12, 841.	3.3	9
2	Compliance with EATâ€™Lancet dietary guidelines would reduce global water footprint but increase it for 40% of the world population. <i>Nature Food</i> , 2022, 3, 143-151.	14.0	20
3	Cardiovascular Response to Posture Changes: Multiscale Modeling and in vivo Validation During Head-Up Tilt. <i>Frontiers in Physiology</i> , 2022, 13, 826989.	2.8	9
4	An innovative approach to select urban-rural sites for Urban Heat Island analysis: the case of Turin (Italy). <i>Urban Climate</i> , 2022, 42, 101099.	5.7	6
5	Rayleigh-BÃ©nard convection with thermal boundary inhomogeneities. <i>Physical Review E</i> , 2022, 105, 025108.	2.1	1
6	Role of trade agreements in the global cereal market and implications for virtual water flows. <i>Scientific Reports</i> , 2022, 12, 6790.	3.3	4
7	A review on turbulent and vortical flow analyses via complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 563, 125476.	2.6	37
8	Testing a Patient-Specific In-Silico Model to Noninvasively Estimate Central Blood Pressure. <i>Cardiovascular Engineering and Technology</i> , 2021, 12, 144-157.	1.6	3
9	Dynamics of bubbles under stochastic pressure forcing. <i>Physical Review E</i> , 2021, 103, 023108.	2.1	5
10	Increased beat-to-beat variability of cerebral microcirculatory perfusion during atrial fibrillation: a near-infrared spectroscopy study. <i>Europace</i> , 2021, 23, 1219-1226.	1.7	18
11	Cerebral spatially resolved near-infrared spectroscopy (SRS-NIRS): paving the way for non-invasive assessment of cerebral hemodynamics during atrial fibrillation. <i>Minerva Cardiology and Angiology</i> , 2021, 69, 124-126.	0.7	1
12	Large-to-small scale frequency modulation analysis in wall-bounded turbulence via visibility networks. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	3.4	15
13	Hydrodynamic holes and Froude horizons: Circular shallow water profiles for astrophysical analogs. <i>Physical Review Research</i> , 2021, 3, .	3.6	1
14	Different Impact of Heart Rate Variability in the Deep Cerebral and Central Hemodynamics at Rest: An in silico Investigation. <i>Frontiers in Neuroscience</i> , 2021, 15, 600574.	2.8	1
15	Combining 4D Flow MRI and Complex Networks Theory to Characterize the Hemodynamic Heterogeneity in Dilated and Non-dilated Human Ascending Aortas. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2441-2453.	2.5	6
16	On the influence of collinear surface waves on turbulence in smooth-bed open-channel flows. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	3.4	14
17	Trade of economically and physically scarce virtual water in the global food network. <i>Scientific Reports</i> , 2021, 11, 22806.	3.3	13
18	Vulnerability of cities to toxic airborne releases is written in their topology. <i>Scientific Reports</i> , 2021, 11, 23029.	3.3	3

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19	A review of multiscale 0D–1D computational modeling of coronary circulation with applications to cardiac arrhythmias. <i>Reviews in Cardiovascular Medicine</i> , 2021, 22, 1461.	1.4	2
20	108–f Atrial fibrillation effects on coronary perfusion across the different myocardial layers: a computational analysis. <i>European Heart Journal Supplements</i> , 2021, 23, .	0.1	0
21	Network analysis of Reynolds number scaling in wall-bounded Lagrangian mixing. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	4
22	Water disinfection by orifice-induced hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104740.	8.2	33
23	A review of nature-based solutions for greywater treatment: Applications, hydraulic design, and environmental benefits. <i>Science of the Total Environment</i> , 2020, 711, 134731.	8.0	168
24	Measuring economic water scarcity in agriculture: a cross-country empirical investigation. <i>Environmental Science and Policy</i> , 2020, 114, 73-85.	4.9	48
25	Role of the Hyporheic Zone in Increasing the Resilience of Mountain Streams Facing Intermittency. <i>Water (Switzerland)</i> , 2020, 12, 2034.	2.7	9
26	Cardiovascular deconditioning during long-term spaceflight through multiscale modeling. <i>Npj Microgravity</i> , 2020, 6, 27.	3.7	42
27	Wall-induced anisotropy effects on turbulent mixing in channel flow: A network-based analysis. <i>Physical Review E</i> , 2020, 102, 043109.	2.1	7
28	Fault detection in level and flow rate sensors for safe and performant remote-control in a water supply system. <i>Journal of Hydroinformatics</i> , 2020, 22, 132-147.	2.4	4
29	On the scaling of large-scale structures in smooth-bed turbulent open-channel flows. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	3.4	28
30	Embedding the intrinsic relevance of vertices in network analysis: the case of centrality metrics. <i>Scientific Reports</i> , 2020, 10, 3297.	3.3	29
31	Charting out the future agricultural trade and its impact on water resources. <i>Science of the Total Environment</i> , 2020, 714, 136626.	8.0	16
32	Tools for reconstructing the bilateral trade network: a critical assessment. <i>Economic Systems Research</i> , 2020, 32, 378-394.	2.7	11
33	Street canyon ventilation: Combined effect of cross-section geometry and wall heating. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2347-2367.	2.7	20
34	Centrality metric for the vulnerability of urban networks to toxic releases. <i>Physical Review E</i> , 2020, 101, 032312.	2.1	2
35	A Closed-Loop Multiscale Model of the Cardiovascular System: Application to Heart Pacing and Open-Loop Response. <i>IFMBE Proceedings</i> , 2020, , 577-585.	0.3	3
36	To What Extent Does Heart Rate Alter the Cerebral Hemodynamic Patterns During Atrial Fibrillation?. <i>IFMBE Proceedings</i> , 2020, , 108-116.	0.3	0

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37	Is water consumption embedded in crop prices? A global data-driven analysis. Environmental Research Letters, 2020, 15, 104016.	5.2	5
38	Overshoots in the water-level control of hydropower plants. Renewable Energy, 2019, 131, 800-810.	8.9	5
39	The globalization of riverine environmental resources through the food trade. Environmental Research Letters, 2019, 14, 024020.	5.2	12
40	Impaired coronary blood flow at higher heart rates during atrial fibrillation: Investigation via multiscale modelling. Computer Methods and Programs in Biomedicine, 2019, 175, 95-102.	4.7	21
41	Higher ventricular rate during atrial fibrillation relates to increased cerebral hypoperfusions and hypertensive events. Scientific Reports, 2019, 9, 3779.	3.3	41
42	Spatial Distribution of the International Food Prices: Unexpected Heterogeneity and Randomness. Ecological Economics, 2019, 159, 122-132.	5.7	8
43	Lagrangian network analysis of turbulent mixing. Journal of Fluid Mechanics, 2019, 865, 546-562.	3.4	22
44	Tailoring Centrality Metrics for Water Distribution Networks. Water Resources Research, 2019, 55, 2348-2369.	4.2	47
45	Global virtual water trade and the hydrological cycle: patterns, drivers, and socio-environmental impacts. Environmental Research Letters, 2019, 14, 053001.	5.2	118
46	Propagation of toxic substances in the urban atmosphere: A complex network perspective. Atmospheric Environment, 2019, 198, 291-301.	4.1	21
47	Multiscale mathematical modeling vs. the generalized transfer function approach for aortic pressure estimation: a comparison with invasive data. Hypertension Research, 2019, 42, 690-698.	2.7	20
48	Hydrological and Geomorphological Significance of Riparian Vegetation in Drylands. , 2019, , 239-275.		5
49	Experimental investigation of vertical turbulent transport of a passive scalar in a boundary layer: Statistics and visibility graph analysis. Physical Review Fluids, 2019, 4, .	2.5	21
50	Flood reduction as an ecosystem service of constructed wetlands for combined sewer overflow. Journal of Hydrology, 2018, 560, 150-159.	5.4	30
51	Visibility graph analysis of wall turbulence time-series. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1-11.	2.1	37
52	Changes in bacteria composition and efficiency of constructed wetlands under sustained overloads: A modeling experiment. Science of the Total Environment, 2018, 612, 1480-1487.	8.0	11
53	Hydraulics of braided river dynamics. Insights from flume experiments. E3S Web of Conferences, 2018, 40, 02020.	0.5	2
54	A change of perspective in network centrality. Scientific Reports, 2018, 8, 15269.	3.3	31

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55	Mutual information analysis to approach nonlinearity in groundwater stochastic fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 2933-2942.	4.0	6
56	Effects of atrial fibrillation on the arterial fluid dynamics: a modelling perspective. <i>Meccanica</i> , 2018, 53, 3251-3267.	2.0	11
57	Spatial characterization of turbulent channel flow via complex networks. <i>Physical Review E</i> , 2018, 98, 013107.	2.1	15
58	Shock transmission in the International Food Trade Network. <i>PLoS ONE</i> , 2018, 13, e0200639.	2.5	46
59	National water, food, and trade modeling framework: The case of Egypt. <i>Science of the Total Environment</i> , 2018, 639, 485-496.	8.0	47
60	Coronary fluid mechanics in an ageing cardiovascular system. <i>Meccanica</i> , 2017, 52, 503-514.	2.0	7
61	In silico analysis of the anti-hypertensive drugs impact on myocardial oxygen balance. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1035-1047.	2.8	7
62	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.	1.7	9
63	Impact of seasonal forcing on reactive ecological systems. <i>Journal of Theoretical Biology</i> , 2017, 419, 23-35.	1.7	13
64	Alteration of cerebrovascular haemodynamic patterns due to atrial fibrillation: an <i>in silico</i> investigation. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170180.	3.4	21
65	Biofilm-induced bioclogging produces sharp interfaces in hyporheic flow, redox conditions, and microbial community structure. <i>Geophysical Research Letters</i> , 2017, 44, 4917-4925.	4.0	55
66	Effect of sampling time in the laboratory investigation of braided rivers. <i>Water Resources Research</i> , 2017, 53, 5184-5197.	4.2	4
67	Network structure classification and features of water distribution systems. <i>Water Resources Research</i> , 2017, 53, 3407-3423.	4.2	41
68	From time-series to complex networks: Application to the cerebrovascular flow patterns in atrial fibrillation. <i>Chaos</i> , 2017, 27, 093107.	2.5	24
69	Effect of river flow fluctuations on riparian vegetation dynamics: Processes and models. <i>Advances in Water Resources</i> , 2017, 110, 29-50.	3.8	80
70	The environmental cost of a reference withdrawal from surface waters: Definition and geography. <i>Advances in Water Resources</i> , 2017, 110, 228-237.	3.8	10
71	A Fast Track approach to deal with the temporal dimension of crop water footprint. <i>Environmental Research Letters</i> , 2017, 12, 074010.	5.2	53
72	Age distribution dynamics with stochastic jumps in mortality. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170451.	2.1	2

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73	To trade or not to trade: Link prediction in the virtual water network. <i>Advances in Water Resources</i> , 2017, 110, 528-537.	3.8	43
74	Convective-absolute nature of ripple instabilities on ice and icicles. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	9
75	A Computational Study on the Relation between Resting Heart Rate and Atrial Fibrillation Hemodynamics under Exercise. <i>PLoS ONE</i> , 2017, 12, e0169967.	2.5	18
76	Central Pressure Appraisal: Clinical Validation of a Subject-Specific Mathematical Model. <i>PLoS ONE</i> , 2016, 11, e0151523.	2.5	10
77	The past and future of food stocks. <i>Environmental Research Letters</i> , 2016, 11, 035010.	5.2	17
78	Recovery times of riparian vegetation. <i>Water Resources Research</i> , 2016, 52, 2934-2950.	4.2	9
79	Complex Networks Unveiling Spatial Patterns in Turbulence. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650223.	1.7	31
80	Stochastic ice stream dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4594-600.	7.1	10
81	River bedform inception by flow unsteadiness: A modal and nonmodal analysis. <i>Physical Review E</i> , 2016, 93, 053110.	2.1	7
82	Global effects of local food-production crises: a virtual water perspective. <i>Scientific Reports</i> , 2016, 6, 18803.	3.3	68
83	Transient cerebral hypoperfusion and hypertensive events during atrial fibrillation: a plausible mechanism for cognitive impairment. <i>Scientific Reports</i> , 2016, 6, 28635.	3.3	68
84	Impact of watershed topography on hyporheic exchange. <i>Advances in Water Resources</i> , 2016, 94, 400-411.	3.8	37
85	Fluid dynamics of heart valves during atrial fibrillation: a lumped parameter-based approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1060-1068.	1.6	18
86	Computational fluid dynamics modelling of left valvular heart diseases during atrial fibrillation. <i>PeerJ</i> , 2016, 4, e2240.	2.0	15
87	The signature of randomness in riparian plant root distributions. <i>Geophysical Research Letters</i> , 2015, 42, 7098-7106.	4.0	41
88	Noise-driven cooperative dynamics between vegetation and topography in riparian zones. <i>Geophysical Research Letters</i> , 2015, 42, 8021-8030.	4.0	23
89	General metrics for segmenting infrastructure networks. <i>Journal of Hydroinformatics</i> , 2015, 17, 505-517.	2.4	16
90	Supraglacial channel inception: Modeling and processes. <i>Water Resources Research</i> , 2015, 51, 7044-7063.	4.2	13

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91	Water Distribution System Modeling and Optimization: A Case Study. <i>Procedia Engineering</i> , 2015, 119, 719-724.	1.2	7
92	P5.6 CORONARY FLUID MECHANICS IN AN AGEING CARDIOVASCULAR SYSTEM. <i>Artery Research</i> , 2015, 12, 21.	0.6	0
93	Can diversity in root architecture explain plant water use efficiency? A modeling study. <i>Ecological Modelling</i> , 2015, 312, 200-210.	2.5	94
94	Groundwater impact on methane emissions from flooded paddy fields. <i>Advances in Water Resources</i> , 2015, 83, 340-350.	3.8	7
95	Thin-film-induced morphological instabilities over calcite surfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150031.	2.1	10
96	Global sensitivity of high-resolution estimates of crop water footprint. <i>Water Resources Research</i> , 2015, 51, 8257-8272.	4.2	91
97	Indicators of Collapse in Systems Undergoing Unsustainable Growth. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 339-347.	1.9	5
98	Modelling and Subject-Specific Validation of the Heart-Arterial Tree System. <i>Annals of Biomedical Engineering</i> , 2015, 43, 222-237.	2.5	25
99	Rate Control Management of Atrial Fibrillation: May a Mathematical Model Suggest an Ideal Heart Rate?. <i>PLoS ONE</i> , 2015, 10, e0119868.	2.5	21
100	Compensatory Effect between Aortic Stiffening and Remodelling during Ageing. <i>PLoS ONE</i> , 2015, 10, e0139211.	2.5	24
101	The Globalisation of Food and Water: The Italian Case. , 2015, , 145-158.		0
102	New Modularity-Based Approach to Segmentation of Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	1.5	78
103	On the convective-absolute nature of river bedform instabilities. <i>Physics of Fluids</i> , 2014, 26, .	4.0	15
104	Feeding humanity through global food trade. <i>Earth's Future</i> , 2014, 2, 458-469.	6.3	300
105	Decreasing of methanogenic activity in paddy fields via lowering ponding water temperature: A modeling investigation. <i>Soil Biology and Biochemistry</i> , 2014, 75, 211-222.	8.8	6
106	Drivers of the virtual water trade. <i>Water Resources Research</i> , 2014, 50, 17-28.	4.2	109
107	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.	2.8	38
108	Effect of water table fluctuations on phreatophytic root distribution. <i>Journal of Theoretical Biology</i> , 2014, 360, 102-108.	1.7	18

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109	Hyporheic flow and transport processes: Mechanisms, models, and biogeochemical implications. <i>Reviews of Geophysics</i> , 2014, 52, 603-679.	23.0	642
110	Community Detection as a Tool for District Metered Areas Identification. <i>Procedia Engineering</i> , 2014, 70, 1518-1523.	1.2	9
111	Mean root depth estimation at landslide slopes. <i>Ecological Engineering</i> , 2014, 69, 118-125.	3.6	23
112	Modelling the response of laboratory horizontal flow constructed wetlands to unsteady organic loads with HYDRUS-CWM1. <i>Ecological Engineering</i> , 2014, 68, 209-213.	3.6	32
113	A novel infrastructure modularity index for the segmentation of water distribution networks. <i>Water Resources Research</i> , 2014, 50, 7648-7661.	4.2	43
114	Modularity Index for Hydraulic System Segmentation. <i>Procedia Engineering</i> , 2014, 89, 1152-1159.	1.2	3
115	WQNetXL: A MS-excel Water Quality System Tool for WDNs. <i>Procedia Engineering</i> , 2014, 89, 262-272.	1.2	2
116	Precursors of state transitions in stochastic systems with delay. <i>Theoretical Ecology</i> , 2013, 6, 265-270.	1.0	7
117	Plant water uptake strategies to cope with stochastic rainfall. <i>Advances in Water Resources</i> , 2013, 53, 118-130.	3.8	12
118	MODELING THE INTERACTIONS BETWEEN RIVER MORPHODYNAMICS AND RIPARIAN VEGETATION. <i>Reviews of Geophysics</i> , 2013, 51, 379-414.	23.0	186
119	Water footprint of a large-sized food company: The case of Barilla pasta production. <i>Water Resources and Industry</i> , 2013, 1-2, 7-24.	3.9	59
120	Role of water flow in modeling methane emissions from flooded paddy soils. <i>Advances in Water Resources</i> , 2013, 52, 261-274.	3.8	12
121	Can microbial fuel cells be an effective mitigation strategy for methane emissions from paddy fields?. <i>Ecological Engineering</i> , 2013, 60, 167-171.	3.6	20
122	Inter-species competitionâ€“facilitation in stochastic riparian vegetation dynamics. <i>Journal of Theoretical Biology</i> , 2013, 318, 13-21.	1.7	18
123	Flume Experiments on Turbulent Flows Across Gaps of Permeable and Impermeable Boundaries. <i>Boundary-Layer Meteorology</i> , 2013, 147, 21-39.	2.3	19
124	Recovering the Release History of a Pollutant Intrusion into a Water Supply System through a Geostatistical Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 418-425.	2.6	3
125	Community detection as a tool for complex pipe network clustering. <i>Europhysics Letters</i> , 2013, 103, 48001.	2.0	25
126	The impacts of increasing current velocity on the drift of <i>Simulium monticola</i> (Diptera: Simuliidae): a laboratory approach. <i>Italian Journal of Zoology</i> , 2013, 80, 443-448.	0.6	11

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127	Modeling hyporheic exchange with unsteady stream discharge and bedform dynamics. <i>Water Resources Research</i> , 2013, 49, 4089-4099.	4.2	39
128	Small-scale permeability heterogeneity has negligible effects on nutrient cycling in streambeds. <i>Geophysical Research Letters</i> , 2013, 40, 1118-1122.	4.0	48
129	Local and global perspectives on the virtual water trade. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1205-1215.	4.9	38
130	Recent History and Geography of Virtual Water Trade. <i>PLoS ONE</i> , 2013, 8, e55825.	2.5	115
131	Climate Dynamics: A Network-Based Approach for the Analysis of Global Precipitation. <i>PLoS ONE</i> , 2013, 8, e71129.	2.5	57
132	Global Spatio-Temporal Patterns in Human Migration: A Complex Network Perspective. <i>PLoS ONE</i> , 2013, 8, e53723.	2.5	90
133	Dynamical Systems Driven by Dichotomous Noise. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2013, , 59-77.	0.6	0
134	A shallow-water theory of river bedforms in supercritical conditions. <i>Physics of Fluids</i> , 2012, 24, .	4.0	13
135	Spatial organization and drivers of the virtual water trade: a community-structure analysis. <i>Environmental Research Letters</i> , 2012, 7, 034007.	5.2	44
136	Transient growths of stable modes in riverbed dynamics. <i>Europhysics Letters</i> , 2012, 100, 64002.	2.0	6
137	Ice ripple formation at large Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2012, 694, 225-251.	3.4	29
138	A lumped hydrodynamic model to assess ageing and hypertension effects on the aortic stiffness. <i>European Journal of Mechanics, B/Fluids</i> , 2012, 35, 111-116.	2.5	0
139	Spatio-temporal stochastic resonance induces patterns in wetland vegetation dynamics. <i>Ecological Complexity</i> , 2012, 10, 93-101.	2.9	13
140	Nutrient cycling in bedform induced hyporheic zones. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 47-61.	3.9	191
141	Noise-sustained fluctuations in stochastic dynamics with a delay. <i>Physical Review E</i> , 2012, 85, 041106.	2.1	4
142	On the temporal variability of the virtual water network. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	78
143	A phenomenological model to describe turbulent friction in permeable-wall flows. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	23
144	Numerical and experimental characterization of a novel modular passive micromixer. <i>Biomedical Microdevices</i> , 2012, 14, 849-862.	2.8	25

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145	Inequalities in the networks of virtual water flow. <i>Eos</i> , 2012, 93, 309-310.	0.1	16
146	Bed evolution measurement with flowing water in morphodynamics experiments. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 818-827.	2.5	15
147	Hydrodynamic-Driven Stability Analysis of Morphological Patterns on Stalactites and Implications for Cave Paleoflow Reconstructions. <i>Physical Review Letters</i> , 2012, 108, 238501.	7.8	23
148	Stochastic resonance and coherence resonance in groundwater-dependent plant ecosystems. <i>Journal of Theoretical Biology</i> , 2012, 293, 65-73.	1.7	15
149	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.	2.2	14
150	Turbulent friction in flows over permeable walls. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	27
151	A flow resistance model for assessing the impact of vegetation on flood routing mechanics. <i>Water Resources Research</i> , 2011, 47, .	4.2	50
152	Crossing properties for geophysical systems forced by Poisson noise. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	8
153	Modal versus nonmodal linear stability analysis of river dunes. <i>Physics of Fluids</i> , 2011, 23, .	4.0	17
154	Long-term morphological river response to hydrological changes. <i>Advances in Water Resources</i> , 2011, 34, 1643-1655.	3.8	15
155	Spatial pattern formation induced by Gaussian white noise. <i>Mathematical Biosciences</i> , 2011, 229, 174-184.	1.9	17
156	Modeling the impact of river damming on riparian vegetation. <i>Journal of Hydrology</i> , 2011, 396, 302-312.	5.4	62
157	Water and solute exchange through flat streambeds induced by large turbulent eddies. <i>Journal of Hydrology</i> , 2011, 402, 290-296.	5.4	31
158	Generalized collocation method for linear and nonlinear convection-diffusion models. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 589-593.	1.9	1
159	Unsteady overland flow on flat surfaces induced by spatial permeability contrasts. <i>Advances in Water Resources</i> , 2011, 34, 1049-1058.	3.8	39
160	Transient growth induces unexpected deterministic spatial patterns in the Turing process. <i>Europhysics Letters</i> , 2011, 95, 18003.	2.0	14
161	Turbulent boundary layers over permeable walls: scaling and near-wall structure. <i>Journal of Fluid Mechanics</i> , 2011, 687, 141-170.	3.4	116
162	Effect of streamflow stochasticity on bedform-driven hyporheic exchange. <i>Advances in Water Resources</i> , 2010, 33, 1367-1374.	3.8	35

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163	Interplay among river meandering, discharge stochasticity and riparian vegetation. <i>Journal of Hydrology</i> , 2010, 382, 138-144.	5.4	44
164	A stochastic model for vegetation water stress. <i>Ecohydrology</i> , 2010, 3, 177-188.	2.4	5
165	Longitudinal dispersion in vegetated rivers with stochastic flows. <i>Advances in Water Resources</i> , 2010, 33, 562-571.	3.8	13
166	Ecohydrology of Terrestrial Ecosystems. <i>BioScience</i> , 2010, 60, 898-907.	4.9	109
167	Stochastic description of water table fluctuations in wetlands. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	23
168	Does globalization of water reduce societal resilience to drought?. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	83
169	Role of discharge variability on pseudomeandering channel morphodynamics: Results from laboratory experiments. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
170	Comment on "Pore water flow due to near-bed turbulence and associated solute transfer in a stream or lake sediment bed" by M. Higashino et al.. <i>Water Resources Research</i> , 2010, 46, .	4.2	4
171	Biogeochemical zonation due to intrameander hyporheic flow. <i>Water Resources Research</i> , 2010, 46, .	4.2	136
172	Flow non-normality-induced transient growth in superposed Newtonian and non-Newtonian fluid layers. <i>Physical Review E</i> , 2009, 80, 036312.	2.1	3
173	Quantifying the impact of groundwater discharge on the surface-subsurface exchange. <i>Hydrological Processes</i> , 2009, 23, 2108-2116.	2.6	60
174	Estimation of the dispersion coefficient in rivers with riparian vegetation. <i>Advances in Water Resources</i> , 2009, 32, 78-87.	3.8	52
175	Modelling river and riparian vegetation interactions and related importance for sustainable ecosystem management. <i>Aquatic Sciences</i> , 2009, 71, 266-278.	1.5	63
176	Transport-diffusion models with nonlinear boundary conditions and solution by generalized collocation methods. <i>Computers and Mathematics With Applications</i> , 2009, 58, 558-565.	2.7	3
177	Mathematical models of vegetation pattern formation in ecohydrology. <i>Reviews of Geophysics</i> , 2009, 47, .	23.0	244
178	Gravity-driven water exchange between streams and hyporheic zones. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	32
179	Ecohydrology of groundwater-dependent ecosystems: 1. Stochastic water table dynamics. <i>Water Resources Research</i> , 2009, 45, .	4.2	80
180	Ecohydrology of groundwater-dependent ecosystems: 2. Stochastic soil moisture dynamics. <i>Water Resources Research</i> , 2009, 45, .	4.2	49

#	ARTICLE	IF	CITATIONS
181	Nonnormality and transient behavior of the de Saint-Venant-Exner equations. <i>Water Resources Research</i> , 2009, 45, .	4.2	14
182	Generalized collocation method for two-dimensional reaction-diffusion problems with homogeneous Neumann boundary conditions. <i>Computers and Mathematics With Applications</i> , 2008, 56, 2360-2370.	2.7	3
183	Biodiversity enhancement induced by environmental noise. <i>Journal of Theoretical Biology</i> , 2008, 255, 332-337.	1.7	37
184	Significance of cutoff in meandering river dynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	95
185	Coupled stochastic dynamics of water table and soil moisture in bare soil conditions. <i>Water Resources Research</i> , 2008, 44, .	4.2	41
186	Reduction of the hyporheic zone volume due to the stream-aquifer interaction. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	107
187	Intra-meander hyporheic flow in alluvial rivers. <i>Water Resources Research</i> , 2008, 44, .	4.2	72
188	Closure to "Green's Function of the Linearized de Saint-Venant Equations" by Luca Ridolfi, Amilcare Porporato, and Roberto Revelli. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 809-809.	2.9	0
189	Noise-induced transitions in state-dependent dichotomous processes. <i>Physical Review E</i> , 2008, 78, 031137.	2.1	11
190	Fertility Island Formation and Evolution in Dryland Ecosystems. <i>Ecology and Society</i> , 2008, 13, .	2.3	75
191	An experimental investigation of turbulent flows over a hilly surface. <i>Physics of Fluids</i> , 2007, 19, 036601.	4.0	41
192	Test to determine the Markov order of a time series. <i>Physical Review E</i> , 2007, 75, 011126.	2.1	7
193	Hierarchy of models for meandering rivers and related morphodynamic processes. <i>Reviews of Geophysics</i> , 2007, 45, .	23.0	180
194	Probabilistic prediction of real-world time series: A local regression approach. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1
195	A stochastic process for the interannual snow storage and melting dynamics. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	21
196	Noise-induced vegetation patterns in fire-prone savannas. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
197	Significance of the riparian vegetation dynamics on meandering river morphodynamics. <i>Water Resources Research</i> , 2007, 43, .	4.2	170
198	Effect of rainfall interannual variability on the stability and resilience of dryland plant ecosystems. <i>Water Resources Research</i> , 2007, 43, .	4.2	41

#	ARTICLE	IF	CITATIONS
199	Noise-induced phenomena in riparian vegetation dynamics. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	21
200	A continuous time random walk approach to the stream transport of solutes. <i>Water Resources Research</i> , 2007, 43, .	4.2	110
201	Challenges in humid land ecohydrology: Interactions of water table and unsaturated zone with climate, soil, and vegetation. <i>Water Resources Research</i> , 2007, 43, .	4.2	109
202	Reply to comment by S. Nadarajah on "Riparian vegetation distribution induced by river flow variability: A stochastic approach". <i>Water Resources Research</i> , 2007, 43, .	4.2	0
203	Bedform-induced hyporheic exchange with unsteady flows. <i>Advances in Water Resources</i> , 2007, 30, 148-156.	3.8	132
204	Vegetation dynamics induced by phreatophyte-aquifer interactions. <i>Journal of Theoretical Biology</i> , 2007, 248, 301-310.	1.7	43
205	Green's Function of the Linearized de Saint-Venant Equations. <i>Journal of Engineering Mechanics - ASCE</i> , 2006, 132, 125-132.	2.9	19
206	Sinuosity-driven hyporheic exchange in meandering rivers. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	159
207	A Probabilistic Analysis of Fire-induced Tree-Grass Coexistence in Savannas. <i>American Naturalist</i> , 2006, 167, E79-E87.	2.1	139
208	Influence of river meandering dynamics on riparian vegetation pattern formation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	52
209	Effect of vegetation-water table feedbacks on the stability and resilience of plant ecosystems. <i>Water Resources Research</i> , 2006, 42, .	4.2	94
210	Patterns as indicators of productivity enhancement by facilitation and competition in dryland vegetation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	49
211	Riparian vegetation distribution induced by river flow variability: A stochastic approach. <i>Water Resources Research</i> , 2006, 42, .	4.2	108
212	Stochastic modelling of DO and BOD components in a stream with random inputs. <i>Advances in Water Resources</i> , 2006, 29, 1341-1350.	3.8	32
213	An analytical model to relate the vertical root distribution to climate and soil properties. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	119
214	Vegetation patterns induced by random climate fluctuations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	53
215	Convective nature of the planimetric instability in meandering river dynamics. <i>Physical Review E</i> , 2006, 73, 026311.	2.1	14
216	HYDROLOGICAL AND GEOMORPHOLOGICAL SIGNIFICANCE OF RIPARIAN VEGETATION IN DRYLANDS. , 2006, , 161-179.		9

#	ARTICLE	IF	CITATIONS
217	Nonlinear convection-dispersion models with a localized pollutant source, "A class of inverse problems. Mathematical and Computer Modelling, 2005, 42, 601-612.	2.0	9
218	Noise-induced stability in dryland plant ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10819-10822.	7.1	150
219	Nonlinear analysis of the geometry of meandering rivers. Geophysical Research Letters, 2005, 32, .	4.0	52
220	Source identification in river pollution problems: A geostatistical approach. Water Resources Research, 2005, 41, .	4.2	41
221	On the long-term behavior of meandering rivers. Water Resources Research, 2005, 41, .	4.2	120
222	Probabilistic nonlinear prediction of river flows. Water Resources Research, 2005, 41, .	4.2	21
223	Detecting nonlinearity in time series driven by non-Gaussian noise: the case of river flows. Nonlinear Processes in Geophysics, 2004, 11, 463-470.	1.3	17
224	Probabilistic modeling of nitrogen and carbon dynamics in water-limited ecosystems. Ecological Modelling, 2004, 179, 205-219.	2.5	21
225	The Effect of Vegetation Density on Canopy Sub-Layer Turbulence. Boundary-Layer Meteorology, 2004, 111, 565-587.	2.3	550
226	Stochastic dynamics of BOD in a stream with random inputs. Advances in Water Resources, 2004, 27, 943-952.	3.8	24
227	Nonlinear convection-dispersion models with a distributed pollutant source I: Direct initial boundary value problems. Mathematical and Computer Modelling, 2004, 39, 1023-1034.	2.0	6
228	Interaction between large and small scales in the canopy sublayer. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	33
229	Transport of reactive chemicals in sediment-laden streams. Advances in Water Resources, 2003, 26, 815-831.	3.8	13
230	Sinc collocation-interpolation method for the simulation of nonlinear waves. Computers and Mathematics With Applications, 2003, 46, 1443-1453.	2.7	26
231	Soil moisture and plant stress dynamics along the Kalahari precipitation gradient. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	63
232	A comparison of nonlinear flood forecasting methods. Water Resources Research, 2003, 39, .	4.2	57
233	Stochastic soil moisture dynamics along a hillslope. Journal of Hydrology, 2003, 272, 264-275.	5.4	91
234	Analysis of the small-scale structure of turbulence on smooth and rough walls. Physics of Fluids, 2003, 15, 35-46.	4.0	51

#	ARTICLE	IF	CITATIONS
235	Detecting determinism and nonlinearity in river-flow time series. <i>Hydrological Sciences Journal</i> , 2003, 48, 763-780.	2.6	29
236	The influence of stochastic soil moisture dynamics on gaseous emissions of NO, N ₂ O, and N ₂ . <i>Hydrological Sciences Journal</i> , 2003, 48, 781-798.	2.6	21
237	On the seasonal dynamics of mean soil moisture. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 8-1.	3.3	40
238	Influence of suspended sediment on the transport processes of nonlinear reactive substances in turbulent streams. <i>Journal of Fluid Mechanics</i> , 2002, 472, 307-331.	3.4	11
239	Some dynamical properties of a differential model for the bursting cycle in the near-wall turbulence. <i>Physics of Fluids</i> , 2002, 14, 4278-4283.	4.0	1
240	Fuzzy Approach for Analysis of Pipe Networks. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 93-101.	1.5	80
241	An experimental contribution to near-wall measurements by means of a special laser Doppler anemometry technique. <i>Experiments in Fluids</i> , 2002, 32, 366-375.	2.4	48
242	Ecohydrology of water-controlled ecosystems. <i>Advances in Water Resources</i> , 2002, 25, 1335-1348.	3.8	242
243	Reconstructing the temporal dynamics of snow cover from observations. <i>Geophysical Research Letters</i> , 2001, 28, 2975-2978.	4.0	6
244	Transition between stable states in the dynamics of soil development. <i>Geophysical Research Letters</i> , 2001, 28, 595-598.	4.0	5
245	Intensive or extensive use of soil moisture: Plant strategies to cope with stochastic water availability. <i>Geophysical Research Letters</i> , 2001, 28, 4495-4497.	4.0	68
246	Multivariate nonlinear prediction of river flows. <i>Journal of Hydrology</i> , 2001, 248, 109-122.	5.4	93
247	Plants in water-controlled ecosystems: active role in hydrologic processes and response to water stress. <i>Advances in Water Resources</i> , 2001, 24, 695-705.	3.8	275
248	Plants in water-controlled ecosystems: active role in hydrologic processes and response to water stress. <i>Advances in Water Resources</i> , 2001, 24, 725-744.	3.8	421
249	Plants in water-controlled ecosystems: active role in hydrologic processes and response to water stress. <i>Advances in Water Resources</i> , 2001, 24, 707-723.	3.8	742
250	Mean first passage times of processes driven by white shot noise. <i>Physical Review E</i> , 2001, 63, 036105.	2.1	56
251	A Spatial Model for Soil-Atmosphere Interaction: Model Construction and Linear Stability Analysis. <i>Journal of Hydrometeorology</i> , 2000, 1, 61-74.	1.9	14
252	On the Trajectory Method for the Reconstruction of Differential Equations from Time Series. <i>Nonlinear Dynamics</i> , 2000, 23, 13-33.	5.2	21

#	ARTICLE	IF	CITATIONS
253	Brief Note “ Inception of Channelization Over a Non-flat Bed. <i>Meccanica</i> , 2000, 35, 457-461.	2.0	7
254	Influence Zone of Recharging-Dewatering Actions in Unconfined Aquifer. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2000, 126, 110-112.	1.0	4
255	Influence of heterogeneity on the flow in unconfined aquifers. <i>Journal of Hydrology</i> , 2000, 228, 150-159.	5.4	10
256	Impact of climate variability on the vegetation water stress. <i>Journal of Geophysical Research</i> , 2000, 105, 18013-18025.	3.3	36
257	Preferential states of seasonal soil moisture: The impact of climate fluctuations. <i>Water Resources Research</i> , 2000, 36, 2209-2219.	4.2	132
258	Duration and frequency of water stress in vegetation: An analytical model. <i>Water Resources Research</i> , 2000, 36, 2297-2307.	4.2	38
259	On the use of neural networks for dendroclimatic reconstructions. <i>Geophysical Research Letters</i> , 2000, 27, 791-794.	4.0	21
260	On the spatial and temporal links between vegetation, climate, and soil moisture. <i>Water Resources Research</i> , 1999, 35, 3709-3722.	4.2	314
261	Probabilistic modelling of water balance at a point: the role of climate, soil and vegetation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999, 455, 3789-3805.	2.1	482
262	Tree-grass coexistence in Savannas: The role of spatial dynamics and climate fluctuations. <i>Geophysical Research Letters</i> , 1999, 26, 247-250.	4.0	84
263	Reply [to “Comment on “Nonlinear analysis of river flow time sequences” by Amilcare Porporato and Luca Ridolfi”]. <i>Water Resources Research</i> , 1999, 35, 899-901.	4.2	2
264	Influence of weak trends on exceedance probability. <i>Stochastic Hydrology & Hydraulics</i> , 1998, 12, 1-14.	0.5	26
265	A simple experimental equation for the bursting cycle. <i>Physics of Fluids</i> , 1998, 10, 3023-3026.	4.0	6
266	Nonlinear analysis of river flow time sequences. <i>Water Resources Research</i> , 1997, 33, 1353-1367.	4.2	157
267	Hydrodynamic dispersion in an artesian aquifer during flow to a partially penetrating well. <i>Journal of Hydrology</i> , 1997, 201, 183-210.	5.4	2
268	Identification of source terms in nonlinear convection diffusion phenomena by sinc collocation-interpolation methods. <i>Mathematical and Computer Modelling</i> , 1997, 26, 69-79.	2.0	11
269	Nonlinear analysis of near-wall turbulence time series. <i>Flow, Turbulence and Combustion</i> , 1996, 57, 235-261.	0.2	7
270	CLUES TO THE EXISTENCE OF DETERMINISTIC CHAOS IN RIVER FLOW. <i>International Journal of Modern Physics B</i> , 1996, 10, 1821-1862.	2.0	55

#	ARTICLE	IF	CITATIONS
271	Solution of nonlinear initial-boundary value problems by sinc collocation-interpolation methods. Computers and Mathematics With Applications, 1995, 29, 15-28.	2.7	42
272	Analysis of Relationship between Porosity and Roughness of Surface Based on Fractal Model. Advanced Materials Research, 0, 683, 413-418.	0.3	1