List of Publications by Year in descending order

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1Presistence of angleliblem metapopulation occupancy in dynamic wetlandscapes. Landscape Ecology, 2022, 37, 675-711.1992Toward a Closure of Catchment Mass Balance: Insight on the Missing Link From a Vegetated Lysimeter. Instance, 2022, 15, 2010, 1940.1.61.763Epidemicity of cholera spread and the fate of infection control measures. Journal of the Royal Society1.61.014Pholem water Isotopically different to sylem water. Potential causes and Implications for coordydiological tracing. Ecological Sci a deeper understanding of the groundwater system: case study of the Bachigione Basin (Veneto, Italy). Acque Sotterrance - hallan Journal of Communicational of the spatial allocation of COVID-19 vaccines: Italy as a case study. PLoS1.037Optimal Biology, 2022, 11, 7:12.1.1348Tree water deflet and dynamic source water partitioning. Hydrological Processes, 2021, 3.5,.1.1349Computational Biology, 2022, 18, e1010237.1.13410Research1.01.311Science, 2021, 5, 2010, 237.1.13412Tree water deflet and dynamic source water partitioning. Hydrological Processes, 2021, 3.5,.1.13413Research, 2021, 5, 2013, 252, 253, 253, 253, 253, 253, 253, 25	#	Article	IF	CITATIONS
2Toward a Closure of Catchment Mass Balance: Insight on the Missing Link From a Vegetated Lysimeter.1.763Endemicity of cholors spread and the fate of infection control measures. Journal of the Royal Society1.314Philoem water isotopically different to xylem water: Potential causes and implications for1.1165Ecolydrological tracing. Ecolydrology, 2022, 15,.1.046Coephydrology 2.0. Rendiconti Lincel, 2022, 33, 245-270.1.046Coephydrology, 202, Endiconti Lincel, 2022, 33, 245-270.1.047Computational Enology, 2022, 11, -17.1.147Computational Enology, 2022, 11, -17.1.31.38Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35,.1.1349Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35,.1.13410Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research1.01311Sterree, 2021, 8, 201309.1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 12, 2752.5.8813The epidemicity index of recurrent SARS-COV2 Infections. Nature Communications, 2021, 12, 2752.5.8814The epidemicity index of recurrent SARS-COV2 Infections. Nature Communications, 2021, 12, 2752.5.8815Net eno the Roke of Second Expansione and Contractions of the National Academy of Second Expansion Active Resources Researc	1	Persistence of amphibian metapopulation occupancy in dynamic wetlandscapes. Landscape Ecology, 2022, 37, 695-711.	1.9	9
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aApplying the Principal Component Analysis for a deeper understanding of the groundwater system: case study of the Bacchiglione Basin (Veneto, Italy). Acque Sotterranee - Italian Journal of Computational Biology, 2022, 18, e1010237.0.237Optimal control of the spatial allocation of COVID-19 vaccines: Italy as a case study. PLoS Computational Biology, 2022, 18, e1010237.1.1348Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35, .1.1349Toward catchment hydro&Gbiogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1495.2.86010Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research Communications, 2021, 538, 253-258.1.01.311Dynamic spatio temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open Science, 2021, 8, 201309.1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 57, sciences of the United States of America, 2021, 118, .3.33613The epidemicity Index of recurrent SARS-CoV-2 Infections. Nature Communications, 2021, 12, 2752.5.3314The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .1.71215ANote on the Role of Seasonal Expansions and Contractions of the Flowing Flowial Network on Metapopulation Persistence. Water Resources Research, 2021, N7, e2021WR029813.1.1416SESTET: A spatially explicit stream temperature model based on equilibrium temperatu	5	Ecohydrology 2.0. Rendiconti Lincei, 2022, 33, 245-270.	1.0	4
7Optimal control of the spatial allocation of COVID-19 vaccines: Italy as a case study. PLoS1.5198Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35.1.1349Toward catchment hydroâCblogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8.2.86510Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research1.01311Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 57,1.72013The epidemicity Index of recurrent SARS-CoV-2 Infections. Nature Communications, 2021, 12, 2752.5.8814The videned Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118,.1.71215ANote on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.1.71216SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological1.1417Species., 2020, 47-113.0	6	Applying the Principal Component Analysis for a deeper understanding of the groundwater system: case study of the Bacchiglione Basin (Veneto, Italy). Acque Sotterranee - Italian Journal of Groundwater, 2022, 11, 7-17.	0.2	3
8Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35,1.1340Toward catchment hydroâ@biogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8,6310Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research1.01311Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 57,1.72013The epidemicity index of recurrent SARS-CoV-2 Infections. Nature Communications, 2021, 12, 2752.5.8814The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.1.71215ANote on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Processes, 2020, 34, 355 369.1.1417SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 34, 355 369.1.14	7	Optimal control of the spatial allocation of COVID-19 vaccines: Italy as a case study. PLoS Computational Biology, 2022, 18, e1010237.	1.5	19
9Toward catchment hydroä€biogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8,2.86510Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research1.01311Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 57,1.72013The epidemicity Index of recurrent SARS-CoV-2 Infections. Nature Communications, 2021, 12, 2752.5.8814The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .3.33615A Note on the Role of Seasonal Expansions and Constractions of the Flowing Fluvial Network on Processes, 2020, 34, 355-369.1.71216SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 47-113.1.14	8	Tree water deficit and dynamic source water partitioning. Hydrological Processes, 2021, 35, .	1.1	34
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11Dynamic spatio-temporal patterns of metapopulation occupancy in patchy habitats. Royal Society Open1.11112Tracing and Closing the Water Balance in a Vegetated Lysimeter. Water Resources Research, 2021, 57, e2020WR029049.1.72013The epidemicity index of recurrent SARS-CoV-2 infections. Nature Communications, 2021, 12, 2752.5.8814The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118,.3.33615ANote on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.1.71216SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological 	10	Range of reproduction number estimates for COVID-19 spread. Biochemical and Biophysical Research Communications, 2021, 538, 253-258.	1.0	13
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14The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .3.33615A Note on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.1.71216SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 34, 355-369.1.1417Species., 2020, 47-113.0	13	The epidemicity index of recurrent SARS-CoV-2 infections. Nature Communications, 2021, 12, 2752.	5.8	8
15A Note on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.1.71216SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 34, 355-369.1.1417Species. , 2020, , 47-113.0	14	The Widened Pipe Model of plant hydraulic evolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
16SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 34, 355-369.1.1417Species., 2020,, 47-113.0	15	A Note on the Role of Seasonal Expansions and Contractions of the Flowing Fluvial Network on Metapopulation Persistence. Water Resources Research, 2021, 57, e2021WR029813.	1.7	12
17 Species. , 2020, , 47-113.	16	SESTET: A spatially explicit stream temperature model based on equilibrium temperature. Hydrological Processes, 2020, 34, 355-369.	1.1	4
	17	Species. , 2020, , 47-113.		0

18 Populations. , 2020, , 114-224.

#	Article	IF	CITATIONS
19	Waterborne Disease. , 2020, , 225-339.		0
20	Afterthoughts and Outlook. , 2020, , 340-361.		0
21	Achieving coordinated national immunity and cholera elimination in Haiti through vaccination: a modelling study. The Lancet Global Health, 2020, 8, e1081-e1089.	2.9	26
22	The geography of COVID-19 spread in Italy and implications for the relaxation of confinement measures. Nature Communications, 2020, 11, 4264.	5.8	110
23	Biological fluid dynamics of airborne COVID-19 infection. Rendiconti Lincei, 2020, 31, 505-537.	1.0	65
24	Spread and dynamics of the COVID-19 epidemic in Italy: Effects of emergency containment measures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10484-10491.	3.3	878
25	Earth and field observations underpin metapopulation dynamics in complex landscapes: Near-term study on carabids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12877-12884.	3.3	4
26	Generation and application of river network analogues for use in ecology and evolution. Ecology and Evolution, 2020, 10, 7537-7550.	0.8	41
27	Transport and Water Age Dynamics in Soils: A Comparative Study of Spatially Integrated and Spatially Explicit Models. Water Resources Research, 2020, 56, no.	1.7	23
28	Advancing ecohydrology in the 21st century: A convergence of opportunities. Ecohydrology, 2020, 13, e2208.	1.1	34
29	Assessing the impact of non-pharmaceutical interventions on SARS-CoV-2 transmission in Switzerland. Swiss Medical Weekly, 2020, 150, w20295.	0.8	61
30	Effects of altered river network connectivity on the distribution ofSalmo trutta: Insights from a metapopulation model. Freshwater Biology, 2019, 64, 1877-1895.	1.2	18
31	Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control. Nature Sustainability, 2019, 2, 611-620.	11.5	32
32	On the probabilistic nature of the species-area relation. Journal of Theoretical Biology, 2019, 462, 391-407.	0.8	4
33	Conditions for transient epidemics of waterborne disease in spatially explicit systems. Royal Society Open Science, 2019, 6, 181517.	1.1	23
34	Estimation of streamflow recession parameters: New insights from an analytic streamflow distribution model. Hydrological Processes, 2019, 33, 1595-1609.	1.1	19
35	A minimalist model of extinction and range dynamics of virtual mountain species driven by warming temperatures. PLoS ONE, 2019, 14, e0213775.	1.1	18
36	Generalized size scaling of metabolic rates based on single-cell measurements with freshwater phytoplankton. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17323-17329.	3.3	16

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37	Space and time predictions of schistosomiasis snail host population dynamics across hydrologic regimes in Burkina Faso. Geospatial Health, 2019, 14, .	0.3	12
38	Velocities, Residence Times, Tracer Breakthroughs in a Vegetated Lysimeter: A Multitracer Experiment. Water Resources Research, 2019, 55, 21-33.	1.7	28
39	Evolving biodiversity patterns in changing river networks. Journal of Theoretical Biology, 2019, 462, 418-424.	0.8	28
40	Rainfall as a driver of epidemic cholera: Comparative model assessments of the effect of intra-seasonal precipitation events. Acta Tropica, 2019, 190, 235-243.	0.9	47
41	Field migration rates of tidal meanders recapitulate fluvial morphodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1463-1468.	3.3	66
42	Epidemicity thresholds for water-borne and water-related diseases. Journal of Theoretical Biology, 2018, 447, 126-138.	0.8	22
43	Spread of proliferative kidney disease in fish along stream networks: A spatial metacommunity framework. Freshwater Biology, 2018, 63, 114-127.	1.2	37
44	River networks as ecological corridors: A coherent ecohydrological perspective. Advances in Water Resources, 2018, 112, 27-58.	1.7	58
45	Catchment Drainage Network Scaling Laws Found Experimentally in Overland Flow Morphologies. Geophysical Research Letters, 2018, 45, 9614-9622.	1.5	6
46	Environmental heterogeneity promotes spatial resilience of phototrophic biofilms in streambeds. Biology Letters, 2018, 14, 20180432.	1.0	14
47	Estimating species distribution and abundance in river networks using environmental DNA. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11724-11729.	3.3	116
48	Near real-time forecasting for cholera decision making in Haiti after Hurricane Matthew. PLoS Computational Biology, 2018, 14, e1006127.	1.5	27
49	Integration of satellite remote sensing data in ecosystem modelling at local scales: Practices and trends. Methods in Ecology and Evolution, 2018, 9, 1810-1821.	2.2	48
50	River landscapes and optimal channel networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6548-6553.	3.3	32
51	The potential impact of case-area targeted interventions in response to cholera outbreaks: A modeling study. PLoS Medicine, 2018, 15, e1002509.	3.9	52
52	Using SAS functions and highâ€resolution isotope data to unravel travel time distributions in headwater catchments. Water Resources Research, 2017, 53, 1864-1878.	1.7	102
53	Demographic stochasticity and resource autocorrelation control biological invasions in heterogeneous landscapes. Oikos, 2017, 126, 1554-1563.	1.2	25
54	Modeling Key Drivers of Cholera Transmission Dynamics Provides New Perspectives for Parasitology. Trends in Parasitology, 2017, 33, 587-599.	1.5	22

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55	A generalized definition of reactivity for ecological systems and the problem of transient species dynamics. Methods in Ecology and Evolution, 2017, 8, 1574-1584.	2.2	28
56	Classification and prediction of river network ephemerality and its relevance for waterborne disease epidemiology. Advances in Water Resources, 2017, 110, 263-278.	1.7	28
57	Integrated field, laboratory, and theoretical study of PKD spread in a Swiss prealpine river. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11992-11997.	3.3	60
58	Covariations in ecological scaling laws fostered by community dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10672-10677.	3.3	25
59	Real-time projections of cholera outbreaks through data assimilation and rainfall forecasting. Advances in Water Resources, 2017, 108, 345-356.	1.7	14
60	On the probability of extinction of the Haiti cholera epidemic. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2043-2055.	1.9	41
61	An epidemiological model for proliferative kidney disease in salmonid populations. Parasites and Vectors, 2016, 9, 487.	1.0	32
62	Statistical characterization of spatiotemporal sediment dynamics in the Venice lagoon. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1049-1064.	1.0	32
63	Mobile phone data highlights the role of mass gatherings in the spreading of cholera outbreaks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6421-6426.	3.3	133
64	Hydrology and density feedbacks control the ecology of intermediate hosts of schistosomiasis across habitats in seasonal climates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6427-6432.	3.3	61
65	Field study on drainage densities and rescaled width functions in a highâ€altitude alpine catchment. Hydrological Processes, 2016, 30, 2138-2152.	1.1	11
66	Geomorphic controls on elevational gradients of species richness. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1737-1742.	3.3	97
67	Metapopulation capacity of evolving fluvial landscapes. Water Resources Research, 2015, 51, 2696-2706.	1.7	39
68	Linking water age and solute dynamics in streamflow at the <scp>H</scp> ubbard <scp>B</scp> rook <scp>E</scp> xperimental <scp>F</scp> orest, <scp>NH</scp> , <scp>USA</scp> . Water Resources Research, 2015, 51, 9256-9272.	1.7	83
69	Storage selection functions: A coherent framework for quantifying how catchments store and release water and solutes. Water Resources Research, 2015, 51, 4840-4847.	1.7	170
70	Transport of fluorobenzoate tracers in a vegetated hydrologic control volume: 2. Theoretical inferences and modeling. Water Resources Research, 2015, 51, 2793-2806.	1.7	44
71	Transport of fluorobenzoate tracers in a vegetated hydrologic control volume: 1. Experimental results. Water Resources Research, 2015, 51, 2773-2792.	1.7	23
72	Thermodynamics in the hydrologic response: Travel time formulation and application to <scp>A</scp> lpine catchments. Water Resources Research, 2015, 51, 1671-1687.	1.7	20

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73	Modeling chloride transport using travel time distributions at Plynlimon, Wales. Water Resources Research, 2015, 51, 3259-3276.	1.7	109
74	Scaleâ€dependent effects of solar radiation patterns on the snowâ€dominated hydrologic response. Geophysical Research Letters, 2015, 42, 3895-3902.	1.5	35
75	A Theoretical Analysis of the Geography of Schistosomiasis in Burkina Faso Highlights the Roles of Human Mobility and Water Resources Development in Disease Transmission. PLoS Neglected Tropical Diseases, 2015, 9, e0004127.	1.3	34
76	Resilience and reactivity of global food security. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6902-6907.	3.3	179
77	Sample and population exponents of generalized Taylor's law. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7755-7760.	3.3	64
78	On the predictive ability of mechanistic models for the Haitian cholera epidemic. Journal of the Royal Society Interface, 2015, 12, 20140840.	1.5	25
79	Generalized receptor law governs phototaxis in the phytoplankton <i>Euglena gracilis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7045-7050.	3.3	60
80	Cholera in the Lake Kivu region (DRC): Integrating remote sensing and spatially explicit epidemiological modeling. Water Resources Research, 2014, 50, 5624-5637.	1.7	27
81	Fluvial network organization imprints on microbial co-occurrence networks. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12799-12804.	3.3	193
82	Glucose- but Not Rice-Based Oral Rehydration Therapy Enhances the Production of Virulence Determinants in the Human Pathogen Vibrio cholerae. PLoS Neglected Tropical Diseases, 2014, 8, e3347.	1.3	34
83	Evolution and selection of river networks: Statics, dynamics, and complexity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2417-2424.	3.3	143
84	Metapopulation persistence and species spread in river networks. Ecology Letters, 2014, 17, 426-434.	3.0	113
85	Floquet theory for seasonal environmental forcing of spatially explicit waterborne epidemics. Theoretical Ecology, 2014, 7, 351-365.	0.4	33
86	Hydrologic controls on basinâ€scale distribution of benthic invertebrates. Water Resources Research, 2014, 50, 2903-2920.	1.7	48
87	Complex Interaction of Dendritic Connectivity and Hierarchical Patch Size on Biodiversity in River-Like Landscapes. American Naturalist, 2014, 183, 13-25.	1.0	108
88	Geomorphic signatures on Brutsaert base flow recession analysis. Water Resources Research, 2013, 49, 5462-5472.	1.7	70
89	Analytic probability distributions for snowâ€dominated streamflow. Water Resources Research, 2013, 49, 2701-2713.	1.7	37
90	Catchment-scale herbicides transport: Theory and application. Advances in Water Resources, 2013, 52, 232-242.	1.7	45

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91	Statistical mechanics of wind waveâ€induced erosion in shallow tidal basins: Inferences from the Venice Lagoon. Geophysical Research Letters, 2013, 40, 3402-3407.	1.5	46
92	Scaling body size fluctuations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4646-4650.	3.3	77
93	Rainfall mediations in the spreading of epidemic cholera. Advances in Water Resources, 2013, 60, 34-46.	1.7	17
94	The geomorphometry of endorheic drainage basins: implications for interpreting and modelling their evolution. Earth Surface Processes and Landforms, 2013, 38, 1881-1896.	1.2	21
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