Giuliano Di Baldassarre

List of Publications by Year
in descending order

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139 papers	10,137 citations	38742 50 h-index	40979 93 g-index
209 all docs	209 docs citations	209 times ranked	8601 citing authors

#	Article	IF	Citations
1	Disaster risk reduction and the limits of truisms: Improving the knowledge and practice interface. International Journal of Disaster Risk Reduction, 2022, 67, 102661.	3.9	10
2	Drought and society: Scientific progress, blind spots, and future prospects. Wiley Interdisciplinary Reviews: Climate Change, 2022, 13, .	8.1	20
3	Do the Benefits of School Closure Outweigh Its Costs?. International Journal of Environmental Research and Public Health, 2022, 19, 2500.	2.6	10
4	Streamflow droughts aggravated by human activities despite management. Environmental Research Letters, 2022, 17, 044059.	5.2	24
5	Epidemic risk perceptions in Italy and Sweden driven by authority responses to COVID-19. Scientific Reports, 2022, 12, .	3.3	2
6	COVID-19 vaccine hesitancy in Sweden and Italy: The role of trust in authorities. Scandinavian Journal of Public Health, 2022, 50, 803-809.	2.3	7
7	Exploring disaster impacts on adaptation actions in 549 cities worldwide. Nature Communications, 2022, 13, .	12.8	19
8	Social-ecological system approaches for water resources management. International Journal of Sustainable Development and World Ecology, 2021, 28, 109-124.	5.9	29
9	Hydrological risk: modeling flood memory and human proximity to rivers. Hydrology Research, 2021, 52, 241-252.	2.7	15
10	Floodplains in the Anthropocene: A Global Analysis of the Interplay Between Human Population, Built Environment, and Flood Severity. Water Resources Research, 2021, 57, e2020WR027744.	4.2	30
11	Guiding principles for hydrologists conducting interdisciplinary research and fieldwork with participants. Hydrological Sciences Journal, 2021, 66, 214-225.	2.6	24
12	The legacy of large dams in the United States. Ambio, 2021, 50, 1798-1808.	5.5	11
13	Donâ€™t blame the rain: Social power and the 2015â€“2017 drought in Cape Town. Journal of Hydrology, 2021, 594, 125953.	5.4	47
14	Scenarios of Human Responses to Unprecedented Socialâ€Environmental Extreme Events. Earth's Future, 2021, 9, e2020EF001911.	6.3	15
15	Anthropogenic Drought: Definition, Challenges, and Opportunities. Reviews of Geophysics, 2021, 59, e2019RG000683.	23.0	126
16	Scientists' warning on extreme wildfire risks to water supply. Hydrological Processes, 2021, 35, e14086.	2.6	51
17	Heterogeneity in flood risk awareness: A longitudinal, latent class model approach. Journal of Hydrology, 2021, 599, 126255.	5.4	6
18	Integrating Multiple Research Methods to Unravel the Complexity of Humanâ€Water Systems. AGU Advances, 2021, 2, e2021AV000473.	5.4	13

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19	Global riverine flood risk â€“ how do hydrogeomorphic floodplain maps compare to flood hazard maps?. Natural Hazards and Earth System Sciences, 2021, 21, 2921-2948.	3.6	8
20	Longitudinal survey data for diversifying temporal dynamics in flood risk modelling. Natural Hazards and Earth System Sciences, 2021, 21, 2811-2828.	3.6	4
21	Exposure to natural hazard events unassociated with policy change for improved disaster risk reduction. Nature Communications, 2021, 12, 193.	12.8	53
22	Multiple hazards and risk perceptions over time: the availability heuristic in Italy and Sweden under COVID-19. Natural Hazards and Earth System Sciences, 2021, 21, 3439-3447.	3.6	14
23	Exploring the role of risk perception in influencing flood losses over time. Hydrological Sciences Journal, 2020, 65, 12-20.	2.6	29
24	Household resilience to climate change hazards in Uganda. International Journal of Climate Change Strategies and Management, 2020, 12, 59-73.	2.9	16
25	Cover Image, Volume 7, Issue 3. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1447.	6.5	0
26	The need to integrate flood and drought disaster risk reduction strategies. Water Security, 2020, 11, 100070.	2.5	83
27	The Role of Experience and Different Sources of Knowledge in Shaping Flood Risk Awareness. Water (Switzerland), 2020, 12, 2130.	2.7	27
28	Public perceptions of multiple risks during the COVID-19 pandemic in Italy and Sweden. Scientific Data, 2020, 7, 434.	5.3	23
29	Socio-Hydrological Modelling: The Influence of Reservoir Management and Societal Responses on Flood Impacts. Water (Switzerland), 2020, 12, 1384.	2.7	12
30	Concurrent wet and dry hydrological extremes at the global scale. Earth System Dynamics, 2020, 11, 251-266.	7.1	48
31	A review of freely accessible global datasets for the study of floods, droughts and their interactions with human societies. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1424.	6.5	34
32	Extreme dry and wet spells face changes in their duration and timing. Environmental Research Letters, 2020, 15, 074040.	5.2	45
33	Brief communication: Comparing hydrological and hydrogeomorphic paradigms for global flood hazard mapping. Natural Hazards and Earth System Sciences, 2020, 20, 1415-1419.	3.6	24
34	The interplay between reservoir storage and operating rules under evolving conditions. Journal of Hydrology, 2020, 590, 125270.	5.4	22
35	Water management for irrigation, crop yield and social attitudes: a socio-agricultural agent-based model to explore a collective action problem. Hydrological Sciences Journal, 2020, 65, 1815-1829.	2.6	17
36	The interplay between structural flood protection, population density, and flood mortality along the Jamuna River, Bangladesh. Regional Environmental Change, 2020, 20, 5.	2.9	32

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37	Exploring changes in hydrogeological risk awareness and preparedness over time: a case study in northeastern Italy. Hydrological Sciences Journal, 2020, 65, 1049-1059.	2.6	38
38	A flood-risk-oriented, dynamic protection motivation framework to explain risk reduction behaviours. Natural Hazards and Earth System Sciences, 2020, 20, 287-298.	3.6	20
39	The Costs of Living with Floods in the Jamuna Floodplain in Bangladesh. Water (Switzerland), 2019, 11, 1238.	2.7	36
40	Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. Water Resources Research, 2019, 55, 6327-6355.	4.2	226
41	Interdisciplinary Critical Geographies of Water: Capturing the Mutual Shaping of Society and Hydrological Flows. Water (Switzerland), 2019, 11, 1973.	2.7	37
42	A systematic comparison of statistical and hydrological methods for design flood estimation. Hydrology Research, 2019, 50, 1665-1678.	2.7	17
43	Space-time disaggregation of precipitation and temperature across different climates and spatial scales. Journal of Hydrology: Regional Studies, 2019, 21, 126-146.	2.4	20
44	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
45	The levee effect along the Jamuna River in Bangladesh. Water International, 2019, 44, 496-519.	1.0	26
46	Design Flood Estimation: Exploring the Potentials and Limitations of Two Alternative Approaches. Water (Switzerland), 2019, 11, 729.	2.7	2
47	Priorities and Interactions of Sustainable Development Goals (SDGs) with Focus on Wetlands. Water (Switzerland), 2019, 11, 619.	2.7	75
48	Is observation uncertainty masking the signal of land use change impacts on hydrology?. Journal of Hydrology, 2019, 570, 393-400.	5.4	8
49	GFPLAIN250m, a global high-resolution dataset of Earthâ€™s floodplains. Scientific Data, 2019, 6, 180309.	5.3	92
50	An Integrative Research Framework to Unravel the Interplay of Natural Hazards and Vulnerabilities. Earth's Future, 2018, 6, 305-310.	6.3	48
51	Hydrological change: Towards a consistent approach to assess changes on both floods and droughts. Advances in Water Resources, 2018, 111, 31-35.	3.8	25
52	Water shortages worsened by reservoir effects. Nature Sustainability, 2018, 1, 617-622.	23.7	213
53	Model averaging versus model selection: estimating design floods with uncertain river flow data. Hydrological Sciences Journal, 2018, 63, 1913-1926.	2.6	16
54	Hess Opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection. Hydrology and Earth System Sciences, 2018, 22, 5629-5637.	4.9	67

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55	Reply to Discussion of â€œPerceptual models of uncertainty for socio-hydrological systems: a flood risk change exampleâ€• Hydrological Sciences Journal, 2018, 63, 2001-2003.	2.6	0
56	Socio-hydrological spaces in the Jamuna River floodplain in Bangladesh. Hydrology and Earth System Sciences, 2018, 22, 5159-5173.	4.9	26
57	Nighttime light data reveal how flood protection shapes human proximity to rivers. Science Advances, 2018, 4, eaar5779.	10.3	59
58	Event and model dependent rainfall adjustments to improve discharge predictions. Hydrological Sciences Journal, 2017, 62, 232-245.	2.6	8
59	Impact of the timing of a SAR image acquisition on the calibration of a flood inundation model. Advances in Water Resources, 2017, 100, 126-138.	3.8	27
60	Impact of social preparedness on flood early warning systems. Water Resources Research, 2017, 53, 522-534.	4.2	47
61	Socio-hydrological modelling of flood-risk dynamics: comparing the resilience of green and technological systems. Hydrological Sciences Journal, 2017, 62, 880-891.	2.6	72
62	Perceptual models of uncertainty for socio-hydrological systems: a flood risk change example. Hydrological Sciences Journal, 2017, 62, 1705-1713.	2.6	40
63	Can weather generation capture precipitation patterns across different climates, spatial scales and under data scarcity?. Scientific Reports, 2017, 7, 5449.	3.3	33
64	Adaptation to flood risk: Results of international paired flood event studies. Earth's Future, 2017, 5, 953-965.	6.3	156
65	Simple vs complex rating curves: accounting for measurement uncertainty, slope ratio and sample size. Hydrological Sciences Journal, 2017, 62, 2072-2082.	2.6	8
66	Reproducing an extreme flood with uncertain post-event information. Hydrology and Earth System Sciences, 2017, 21, 3597-3618.	4.9	14
67	Drought and flood in the Anthropocene: feedback mechanisms in reservoir operation. Earth System Dynamics, 2017, 8, 225-233.	7.1	122
68	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. Hydrology and Earth System Sciences, 2016, 20, 3631-3650.	4.9	289
69	An intercomparison of remote sensing river discharge estimation algorithms from measurements of river height, width, and slope. Water Resources Research, 2016, 52, 4527-4549.	4.2	163
70	Probabilistic Flood Maps to support decisionâ€making: Mapping the Value of Information. Water Resources Research, 2016, 52, 1026-1043.	4.2	61
71	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. Hydrological Sciences Journal, 2016, 61, 2803-2817.	2.6	57
72	A new methodology to define homogeneous regions through an entropy based clustering method. Advances in Water Resources, 2016, 96, 237-250.	3.8	25

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73	Optimal cross-sectional sampling for river modelling with bridges: An information theory-based method. AIP Conference Proceedings, 2016, , .	0.4	2
74	Testing new sources of topographic data for flood propagation modelling under structural, parameter and observation uncertainty. Hydrological Sciences Journal, 2016, 61, 1707-1715.	2.6	12
75	Increasing flood risk under climate change: a pan-European assessment of the benefits of four adaptation strategies. Climatic Change, 2016, 136, 507-521.	3.6	131
76	Drought in the Anthropocene. Nature Geoscience, 2016, 9, 89-91.	12.9	537
77	A theoretical model of water and trade. Advances in Water Resources, 2016, 89, 32-41.	3.8	21
78	The seventh facet of uncertainty: wrong assumptions, unknowns and surprises in the dynamics of humanâ€“water systems. Hydrological Sciences Journal, 2016, 61, 1748-1758.	2.6	73
79	Debatesâ€”Perspectives on socioâ€hydrology: Capturing feedbacks between physical and social processes. Water Resources Research, 2015, 51, 4770-4781.	4.2	337
80	Assessing the impact of different sources of topographic data on 1-D hydraulic modelling of floods. Hydrology and Earth System Sciences, 2015, 19, 631-643.	4.9	78
81	Remotely Sensed Nightlights to Map Societal Exposure to Hydrometeorological Hazards. Remote Sensing, 2015, 7, 12380-12399.	4.0	4
82	A review of lowâ€cost spaceâ€borne data for flood modelling: topography, flood extent and water level. Hydrological Processes, 2015, 29, 3368-3387.	2.6	107
83	The failed-levee effect: Do societies learn from flood disasters?. Natural Hazards, 2015, 76, 373-388.	3.4	79
84	Exploring the Potential of SRTM Topography and Radar Altimetry to Support Flood Propagation Modeling: Danube Case Study. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	32
85	Flood risk mitigation in developing countries: deriving accurate topographic data for remote areas under severe time and economic constraints. Journal of Flood Risk Management, 2015, 8, 301-314.	3.3	14
86	Testing different cross-section spacing in 1D hydraulic modelling: a case study on Johor River, Malaysia. Hydrological Sciences Journal, 2015, 60, 351-360.	2.6	18
87	Global and Low-Cost Topographic Data to Support Flood Studies. , 2015, , 105-123.		0
88	KULTURisk Methodology Application. , 2015, , 201-211.		2
89	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	4.9	83
90	Floods and societies: the spatial distribution of waterâ€related disaster risk and its dynamics. Wiley Interdisciplinary Reviews: Water, 2014, 1, 133-139.	6.5	40

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91	Flooding Hazard Mapping in Floodplain Areas Affected by Piping Breaches in the Po River, Italy. Journal of Hydrologic Engineering - ASCE, 2014, 19, 717-731.	1.9	58
92	An entropy approach for the optimization of cross-section spacing for river modelling. Hydrological Sciences Journal, 2014, 59, 126-137.	2.6	28
93	Flood modelling: parameterisation and inflow uncertainty. Water Management, 2014, 167, 51-60.	1.2	11
94	Insights from socio-hydrology modelling on dealing with flood risk â€“ Roles of collective memory, risk-taking attitude and trust. Journal of Hydrology, 2014, 518, 71-82.	5.4	223
95	HP - Special Issue on Flood Risk and Uncertainty. Hydrological Processes, 2013, 27, 1291-1291.	2.6	4
96	Data errors and hydrological modelling: The role of model structure to propagate observation uncertainty. Advances in Water Resources, 2013, 51, 498-504.	3.8	55
97	â€œPanta Rheiâ€”Everything Flowsâ€• Change in hydrology and societyâ€”The IAHS Scientific Decade 2013â€“2022. Hydrological Sciences Journal, 2013, 58, 1256-1275.	2.6	569
98	Characterizing Climate Model Uncertainty Using an Informal Bayesian Framework: Application to the River Nile. Journal of Hydrologic Engineering - ASCE, 2013, 18, 582-589.	1.9	8
99	Exploring the potential of SRTM topographic data for flood inundation modelling under uncertainty. Journal of Hydroinformatics, 2013, 15, 849-861.	2.4	49
100	Downscaling technique uncertainty in assessing hydrological impact of climate change in the Upper Beles River Basin, Ethiopia. Hydrology Research, 2013, 44, 377-398.	2.7	23
101	Reconstruction and analysis of the Po River inundation of 1951. Hydrological Processes, 2013, 27, 1341-1348.	2.6	27
102	Detailed data is welcome, but with a pinch of salt: Accuracy, precision, and uncertainty in flood inundation modeling. Water Resources Research, 2013, 49, 6079-6085.	4.2	134
103	The role of risk perception in making flood risk management more effective. Natural Hazards and Earth System Sciences, 2013, 13, 3013-3030.	3.6	62
104	Towards understanding the dynamic behaviour of floodplains as human-water systems. Hydrology and Earth System Sciences, 2013, 17, 3235-3244.	4.9	189
105	Socio-hydrology: conceptualising human-flood interactions. Hydrology and Earth System Sciences, 2013, 17, 3295-3303.	4.9	403
106	An entropy method for floodplain monitoring network design. AIP Conference Proceedings, 2012, , .	0.4	10
107	Uncertainty in design flood profiles derived by hydraulic modelling. Hydrology Research, 2012, 43, 753-761.	2.7	48
108	Effect of observation errors on the uncertainty of design floods. Physics and Chemistry of the Earth, 2012, 42-44, 85-90.	2.9	36

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109	Is the current flood of data enough? A treatise on research needs for the improvement of flood modelling. Hydrological Processes, 2012, 26, 153-158.	2.6	65
110	BRIDGE PIER SCOUR: A REVIEW OF PROCESSES, MEASUREMENTS AND ESTIMATES. Environmental Engineering and Management Journal, 2012, 11, 975-989.	0.6	46
111	Future hydrology and climate in the River Nile basin: a review. Hydrological Sciences Journal, 2011, 56, 199-211.	2.6	98
112	Floodplain management in Africa: Large scale analysis of flood data. Physics and Chemistry of the Earth, 2011, 36, 292-298.	2.9	29
113	Selecting the appropriate hydraulic model structure using low-resolution satellite imagery. Advances in Water Resources, 2011, 34, 38-46.	3.8	32
114	Timely Low Resolution SAR Imagery To Support Floodplain Modelling: a Case Study Review. Surveys in Geophysics, 2011, 32, 255-269.	4.6	76
115	Relation Between the North-Atlantic Oscillation and Hydroclimatic Conditions in Mediterranean Areas. Water Resources Management, 2011, 25, 1269-1279.	3.9	76
116	Floodplain management strategies for flood attenuation in the river Po. River Research and Applications, 2011, 27, 1037-1047.	1.7	58
117	A hydraulic study on the applicability of flood rating curves. Hydrology Research, 2011, 42, 10-19.	2.7	77
118	The direct use of radar satellites for event-specific flood risk mapping. Remote Sensing Letters, 2010, 1, 75-84.	1.4	31
119	Flood fatalities in Africa: From diagnosis to mitigation. Geophysical Research Letters, 2010, 37, .	4.0	290
120	Near realâ€time flood wave approximation on large rivers from space: Application to the River Po, Italy. Water Resources Research, 2010, 46, .	4.2	90
121	Flood-plain mapping: a critical discussion of deterministic and probabilistic approaches. Hydrological Sciences Journal, 2010, 55, 364-376.	2.6	213
122	Uncertainty in river discharge observations: a quantitative analysis. Hydrology and Earth System Sciences, 2009, 13, 913-921.	4.9	493
123	A technique for the calibration of hydraulic models using uncertain satellite observations of flood extent. Journal of Hydrology, 2009, 367, 276-282.	5.4	142
124	Near real time satellite imagery to support and verify timely flood modelling. Hydrological Processes, 2009, 23, 799-803.	2.6	69
125	Probability-weighted hazard maps for comparing different flood risk management strategies: a case study. Natural Hazards, 2009, 50, 479-496.	3.4	100
126	Isla Hispaniola: A trans-boundary flood risk mitigation plan. Physics and Chemistry of the Earth, 2009, 34, 209-218.	2.9	35

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127	Design flood estimation using model selection criteria. Physics and Chemistry of the Earth, 2009, 34, 606-611.	2.9	66
128	Model selection techniques for the frequency analysis of hydrological extremes. Water Resources Research, 2009, 45, .	4.2	150
129	The Utility of Spaceborne Radar to Render Flood Inundation Maps Based on Multialgorithm Ensembles. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2801-2807.	6.3	120
130	Analysis of the effects of levee heightening on flood propagation: example of the River Po, Italy. Hydrological Sciences Journal, 2009, 54, 1007-1017.	2.6	121
131	Optimal Cross-Sectional Spacing in Preissmann Scheme 1D Hydrodynamic Models. Journal of Hydraulic Engineering, 2009, 135, 96-105.	1.5	123
132	Comparing the performance of a 2-D finite element and a 2-D finite volume model of floodplain inundation using airborne SAR imagery. Hydrological Processes, 2007, 21, 2745-2759.	2.6	115
133	Reliability of different depth-duration-frequency equations for estimating short-duration design storms. Water Resources Research, 2006, 42, .	4.2	34
134	Relationships between statistics of rainfall extremes and mean annual precipitation: an application for design-storm estimation in northern central Italy. Hydrology and Earth System Sciences, 2006, 10, 589-601.	4.9	77
135	Panta Rhei 2013â€“2015: global perspectives on hydrology, society and change. Hydrological Sciences Journal, 0, , 1-18.	2.6	53
136	Human-flood interactions in Rome over the past 150 years. Advances in Geosciences, 0, 44, 9-13.	12.0	22
137	RIO SOLIETTE (HAITI): AN INTERNATIONAL INITIATIVE FOR FLOOD-HAZARD ASSESSMENT AND MITIGATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W3, 159-165.	0.2	2
138	The interplay between human population dynamics and flooding in Bangladesh: a spatial analysis. Proceedings of the International Association of Hydrological Sciences, 0, 364, 188-191.	1.0	11
139	Bridging the gap: Reply to discussion of â€œGuiding principles for hydrologists conducting interdisciplinary research and fieldwork with participantsâ€• Hydrological Sciences Journal, 0, , .	2.6	2