

Lorenzo Alfieri

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

3,953
citations

30
h-index

62
g-index

99
ext. papers

4,895
ext. citations

5.4
avg, IF

5.66
L-index

#	Paper	IF	Citations
74	National water shortage for low to high environmental flow protection.. <i>Scientific Reports</i> , 2022 , 12, 3037	4.9	3
73	A new dataset of river flood hazard maps for Europe and the Mediterranean Basin. <i>Earth System Science Data</i> , 2022 , 14, 1549-1569	10.5	0
72	Will river floods hit European road networks? A robustness assessment. <i>Transportation Research, Part D: Transport and Environment</i> , 2022 , 108, 103332	6.4	0
71	The number of people exposed to water stress in relation to how much water is reserved for the environment: a global modelling study. <i>Lancet Planetary Health</i> , 2021 , 5, e766-e774	9.8	5
70	Assessing future vulnerability and risk of humanitarian crises using climate change and population projections within the INFORM framework. <i>Global Environmental Change</i> , 2021 , 71, 102393	10.1	0
69	Flood risk assessment of the European road network. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 1011-1027	3.9	7
68	Global Flood Models. <i>Geophysical Monograph Series</i> , 2021 , 181-200	1.1	1
67	Global River Flood Risk Under Climate Change. <i>Geophysical Monograph Series</i> , 2021 , 251-270	1.1	0
66	Global Flood Partnership. <i>Geophysical Monograph Series</i> , 2021 , 307-322	1.1	0
65	Biases in national and continental flood risk assessments by ignoring spatial dependence. <i>Scientific Reports</i> , 2020 , 10, 19387	4.9	4
64	Independence of Future Changes of River Runoff in Europe from the Pathway to Global Warming. <i>Climate</i> , 2020 , 8, 22	3.1	4
63	Satellite-Based Evapotranspiration in Hydrological Model Calibration. <i>Remote Sensing</i> , 2020 , 12, 428	5	17
62	GloFAS-ERA5 operational global river discharge reanalysis 1979-present. <i>Earth System Science Data</i> , 2020 , 12, 2043-2060	10.5	44
61	Will the Paris Agreement protect us from hydro-meteorological extremes? <i>Environmental Research Letters</i> , 2020 , 15, 104037	6.2	6
60	Climatology and Interannual Variability of Floods during the TRMM Era (1998-2013). <i>Journal of Climate</i> , 2020 , 33, 3289-3305	4.4	5
59	A global streamflow reanalysis for 1980-2018. <i>Journal of Hydrology X</i> , 2020 , 6, 100049	4.6	36
58	Toward Global Stochastic River Flood Modeling. <i>Water Resources Research</i> , 2020 , 56, e2020WR027692	5.4	6

57	Global Modeling of Seasonal Mortality Rates From River Floods. <i>Earths Future</i> , 2020 , 8, e2020EF001541	7.9	4
56	Incorporating hydrology into climate suitability models changes projections of malaria transmission in Africa. <i>Nature Communications</i> , 2020 , 11, 4353	17.4	7
55	The macroeconomic impacts of future river flooding in Europe. <i>Environmental Research Letters</i> , 2019 , 14, 084042	6.2	20
54	Streamflow response to climate change in the Greater Horn of Africa. <i>Climatic Change</i> , 2019 , 156, 341-363	13.5	12
53	Hydrological Ensemble Prediction Systems Around the Globe 2019 , 1187-1221		2
52	Global warming to increase flood risk on European railways. <i>Climatic Change</i> , 2019 , 155, 19-36	4.5	16
51	Flash Flood Forecasting Based on Rainfall Thresholds 2019 , 1223-1260		2
50	Predictability of the European heat and cold waves. <i>Climate Dynamics</i> , 2019 , 52, 2481-2495	4.2	13
49	Evaluation of real-time global flood modeling with satellite surface inundation observations from SMAP. <i>Remote Sensing of Environment</i> , 2019 , 233, 111360	13.2	14
48	Range-dependent thresholds for global flood early warning. <i>Journal of Hydrology X</i> , 2019 , 4, 100034	4.6	6
47	Changes in flood damage with global warming on the eastern coast of Spain. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 2855-2877	3.9	8
46	Global Changes in Drought Conditions Under Different Levels of Warming. <i>Geophysical Research Letters</i> , 2018 , 45, 3285-3296	4.9	246
45	A global network for operational flood risk reduction. <i>Environmental Science and Policy</i> , 2018 , 84, 149-158	6.2	59
44	Changes in climate extremes, fresh water availability and vulnerability to food insecurity projected at 1.5°C and 2°C global warming with a higher-resolution global climate model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	74
43	Increased human and economic losses from river flooding with anthropogenic warming. <i>Nature Climate Change</i> , 2018 , 8, 781-786	21.4	202
42	Multi-Model Projections of River Flood Risk in Europe under Global Warming. <i>Climate</i> , 2018 , 6, 6	3.1	64
41	Calibration of the Global Flood Awareness System (GloFAS) using daily streamflow data. <i>Journal of Hydrology</i> , 2018 , 566, 595-606	6	51
40	Future Floods in Bangladesh under 1.5°C, 2°C, and 4°C Global Warming Scenarios. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018 , 23, 04018050	1.8	16

39	Global projections of river flood risk in a warmer world. <i>Earthis Future</i> , 2017 , 5, 171-182	7.9	288
38	Extreme flows and water availability of the Brahmaputra River under 1.5 and 2 °C global warming scenarios. <i>Climatic Change</i> , 2017 , 145, 159-175	4.5	30
37	Impact of High-End Climate Change on Floods and Low Flows of the Brahmaputra River. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 04017041	1.8	23
36	An operational procedure for rapid flood risk assessment in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2017 , 17, 1111-1126	3.9	41
35	Development and evaluation of a framework for global flood hazard mapping. <i>Advances in Water Resources</i> , 2016 , 94, 87-102	4.7	170
34	Multi-hazard assessment in Europe under climate change. <i>Climatic Change</i> , 2016 , 137, 105-119	4.5	136
33	Increasing flood risk under climate change: a pan-European assessment of the benefits of four adaptation strategies. <i>Climatic Change</i> , 2016 , 136, 507-521	4.5	91
32	Hydrological Ensemble Prediction Systems Around the Globe 2016 , 1-35		9
31	Modelling the socio-economic impact of river floods in Europe 2016 ,		1
30	The transformed-stationary approach: a generic and simplified methodology for non-stationary extreme value analysis. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 3527-3547	5.5	26
29	Modelling the socio-economic impact of river floods in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1401-1411	3.9	46
28	The Effect of Reference Climatology on Global Flood Forecasting. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1131-1145	3.7	28
27	Ensemble flood risk assessment in Europe under high end climate scenarios. <i>Global Environmental Change</i> , 2015 , 35, 199-212	10.1	160
26	A high-resolution global flood hazard model. <i>Water Resources Research</i> , 2015 , 51, 7358-7381	5.4	256
25	Flash Flood Forecasting Based on Rainfall Thresholds 2015 , 1-38		9
24	A dynamic runoff co-efficient to improve flash flood early warning in Europe: evaluation on the 2013 central European floods in Germany. <i>Meteorological Applications</i> , 2015 , 22, 410-418	2.1	41
23	Joining Forces in a Global Flood Partnership. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, ES97-ES100	6.1	19
22	A European precipitation index for extreme rain-storm and flash flood early warning. <i>Meteorological Applications</i> , 2015 , 22, 3-13	2.1	52

21	Global warming increases the frequency of river floods in Europe. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 2247-2260	5.5	262
20	How do I know if my forecasts are better? Using benchmarks in hydrological ensemble prediction. <i>Journal of Hydrology</i> , 2015 , 522, 697-713	6	94
19	Evaluation of ensemble streamflow predictions in Europe. <i>Journal of Hydrology</i> , 2014 , 517, 913-922	6	100
18	Advances in pan-European flood hazard mapping. <i>Hydrological Processes</i> , 2014 , 28, 4067-4077	3.3	144
17	The extreme runoff index for flood early warning in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2014 , 14, 1505-1515	3.9	26
16	Visualizing probabilistic flood forecast information: expert preferences and perceptions of best practice in uncertainty communication. <i>Hydrological Processes</i> , 2013 , 27, 132-146	3.3	85
15	GloFAS (Global ensemble streamflow forecasting and flood early warning). <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1161-1175	5.5	269
14	HESS Opinions "Forecaster priorities for improving probabilistic flood forecasts"	5.5	47
13	Operational early warning systems for water-related hazards in Europe. <i>Environmental Science and Policy</i> , 2012 , 21, 35-49	6.2	167
12	Ensemble hydro-meteorological simulation for flash flood early detection in southern Switzerland. <i>Journal of Hydrology</i> , 2012 , 424-425, 143-153	6	59
11	Time-dependent Z-R relationships for estimating rainfall fields from radar measurements. <i>Natural Hazards and Earth System Sciences</i> , 2010 , 10, 149-158	3.9	30
10	An Analysis of the Soil Moisture Feedback on Convective and Stratiform Precipitation. <i>Journal of Hydrometeorology</i> , 2008 , 9, 280-291	3.7	67
9	A simulation experiment for optimal design hyetograph selection. <i>Hydrological Processes</i> , 2008 , 22, 813-820	3.9	58
8	Optimal Water Allocation for an Alpine Hydropower System Under Changing Scenarios. <i>Water Resources Management</i> , 2006 , 20, 761-778	3.7	24
7	A staggered approach to flash flood forecasting (case study in the Cevennes region). <i>Advances in Geosciences</i> , 2009 , 29, 13-20		26
6	Flash flood detection through a multi-stage probabilistic warning system for heavy precipitation events. <i>Advances in Geosciences</i> , 2009 , 29, 69-75		53
5	GloFAS-ERA5 operational global river discharge reanalysis 1979-present		13
4	Non-stationary Extreme Value Analysis: a simplified approach for Earth science applications		8

3	Global warming increases the frequency of river floods in Europe	13
2	GloFAS [g]lobal ensemble streamflow forecasting and flood early warning	11
1	A new dataset of river flood hazard maps for Europe and the Mediterranean Basin region	6