

Attilio Castellarin

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.

101
papers

4,201
citations

37
h-index

63
g-index

127
ext. papers

5,005
ext. citations

5.4
avg, IF

5.4
L-index

#	Paper	IF	Citations
101	Pluvial flooding: High-resolution stochastic hazard mapping in urban areas by using fast-processing DEM-based algorithms. <i>Journal of Hydrology</i> , 2022 , 608, 127649	6	0
100	Machine-learning blends of geomorphic descriptors: value and limitations for flood hazard assessment across large floodplains. <i>Natural Hazards and Earth System Sciences</i> , 2022 , 22, 1469-1486	3.9	1
99	Comparison of two modelling strategies for 2D large-scale flood simulations. <i>Environmental Modelling and Software</i> , 2021 , 146, 105225	5.2	3
98	A comparison between generalized least squares regression and top-kriging for homogeneous cross-correlated flood regions. <i>Hydrological Sciences Journal</i> , 2021 , 66, 565-579	3.5	1
97	Stationary vs non-stationary modelling of flood frequency distribution across northwest England. <i>Hydrological Sciences Journal</i> , 2021 , 66, 729-744	3.5	4
96	A probabilistic approach to estimating residential losses from different flood types. <i>Natural Hazards</i> , 2021 , 105, 2569-2601	3	6
95	Changes in seasonality and magnitude of sub-daily rainfall extremes in Emilia-Romagna (Italy) and potential influence on regional rainfall frequency estimation. <i>Journal of Hydrology: Regional Studies</i> , 2020 , 32, 100751	3.6	3
94	Comparative analysis of scalar upper tail indicators. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1625-1639	3.5	3
93	Safer_RAIN: A DEM-Based Hierarchical Filling-&Spilling Algorithm for Pluvial Flood Hazard Assessment and Mapping across Large Urban Areas. <i>Water (Switzerland)</i> , 2020 , 12, 1514	3	8
92	Exposure and vulnerability estimation for modelling flood losses to commercial assets in Europe. <i>Science of the Total Environment</i> , 2020 , 737, 140011	10.2	9
91	Levee Breaching: A New Extension to the LISFLOOD-FP Model. <i>Water (Switzerland)</i> , 2020 , 12, 942	3	6
90	Large-scale stochastic flood hazard analysis applied to the Po River. <i>Natural Hazards</i> , 2020 , 104, 2027-2049	3.9	4
89	Predictive Modeling of Envelope Flood Extents Using Geomorphic and Climatic-Hydrologic Catchment Characteristics. <i>Water Resources Research</i> , 2020 , 56, e2019WR026453	5.4	8
88	Changing climate both increases and decreases European river floods. <i>Nature</i> , 2019 , 573, 108-111	50.4	344
87	Hydrologic Record Events 2019 , 491-536		0
86	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158	3.5	259
85	A web application for hydrogeomorphic flood hazard mapping. <i>Environmental Modelling and Software</i> , 2019 , 118, 172-186	5.2	21

84	Testing empirical and synthetic flood damage models: the case of Italy. <i>Natural Hazards and Earth System Sciences</i> , 2019 , 19, 661-678	3.9	37
83	Comparing 2D capabilities of HEC-RAS and LISFLOOD-FP on complex topography. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1769-1782	3.5	36
82	Sewer Flow Prediction at a Large Urban Scale: Influence of Radar Rainfall Spatial Resolution. <i>Green Energy and Technology</i> , 2019 , 794-798	0.6	
81	Characterizing water surface elevation under different flow conditions for the upcoming SWOT mission. <i>Journal of Hydrology</i> , 2018 , 561, 848-861	6	21
80	Hydro-power production and fish habitat suitability: Assessing impact and effectiveness of ecological flows at regional scale. <i>Advances in Water Resources</i> , 2018 , 116, 29-39	4.7	15
79	Climate-change potential effects on the hydrological regime of freshwater springs in the Italian Northern Apennines. <i>Science of the Total Environment</i> , 2018 , 622-623, 337-348	10.2	14
78	Evolutionary leap in large-scale flood risk assessment needed. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018 , 5, e1266	5.7	38
77	Prediction of streamflow regimes over large geographical areas: interpolated flow duration curves for the Danube region. <i>Hydrological Sciences Journal</i> , 2018 , 63, 845-861	3.5	9
76	Development and assessment of uni- and multivariable flood loss models for Emilia-Romagna (Italy). <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 2057-2079	3.9	46
75	Invigorating hydrological research through journal publications. <i>Hydrological Sciences Journal</i> , 2018 , 63, 1113-1117	3.5	3
74	Joint editorial: Invigorating hydrological research through journal publications. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5735-5739	5.5	2
73	A geostatistical data-assimilation technique for enhancing macro-scale rainfall runoff simulations. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4633-4648	5.5	5
72	Socio-hydrological modelling of flood-risk dynamics: comparing the resilience of green and technological systems. <i>Hydrological Sciences Journal</i> , 2017 , 62, 880-891	3.5	52
71	Is anthropogenic land subsidence a possible driver of riverine flood-hazard dynamics? A case study in Ravenna, Italy. <i>Hydrological Sciences Journal</i> , 2017 , 62, 2440-2455	3.5	9
70	Changing climate shifts timing of European floods. <i>Science</i> , 2017 , 357, 588-590	33.3	402
69	Uncertainty in hydrological signatures for gauged and ungauged catchments. <i>Water Resources Research</i> , 2016 , 52, 1847-1865	5.4	82
68	Regional flow duration curves: Geostatistical techniques versus multivariate regression. <i>Advances in Water Resources</i> , 2016 , 96, 11-22	4.7	27
67	Panta Rhei 2013-2015: global perspectives on hydrology, society and change. <i>Hydrological Sciences Journal</i> , 2016 , 1-18	3.5	44

66	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. <i>Hydrological Sciences Journal</i> , 2016 , 61, 2803-2817	3.5	40
65	Evolution of flood risk over large areas: Quantitative assessment for the Po river. <i>Journal of Hydrology</i> , 2015 , 527, 809-823	6	61
64	Flood risk mitigation in developing countries: deriving accurate topographic data for remote areas under severe time and economic constraints. <i>Journal of Flood Risk Management</i> , 2015 , 8, 301-314	3.1	11
63	Identification of coherent flood regions across Europe by using the longest streamflow records. <i>Journal of Hydrology</i> , 2015 , 528, 341-360	6	65
62	Investigating the uncertainty of satellite altimetry products for hydrodynamic modelling. <i>Hydrological Processes</i> , 2015 , 29, 4908-4918	3.3	22
61	Virtual laboratories: new opportunities for collaborative water science. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 2101-2117	5.5	49
60	The use of remote sensing-derived water surface data for hydraulic model calibration. <i>Remote Sensing of Environment</i> , 2014 , 149, 130-141	13.2	71
59	Documentary evidence of past floods in Europe and their utility in flood frequency estimation. <i>Journal of Hydrology</i> , 2014 , 517, 963-973	6	88
58	Regional prediction of flow-duration curves using a three-dimensional kriging. <i>Journal of Hydrology</i> , 2014 , 513, 179-191	6	22
57	Geostatistical prediction of flow-duration curves in an index-flow framework. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 3801-3816	5.5	31
56	Regional parent flood frequency distributions in Europe [Part 1: Is the GEV model suitable as a pan-European parent?]. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4381-4389	5.5	42
55	Regional parent flood frequency distributions in Europe [Part 2: Climate and scale controls. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4391-4401	5.5	33
54	Topological and canonical kriging for design flood prediction in ungauged catchments: an improvement over a traditional regional regression approach?. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1575-1588	5.5	34
53	Probabilistic flood hazard mapping: effects of uncertain boundary conditions. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 3127-3140	5.5	73
52	An analysis of change in alpine annual maximum discharges: implications for the selection of design discharges. <i>Hydrological Processes</i> , 2012 , 26, 1517-1526	3.3	12
51	Calibration of a rainfall-runoff model at regional scale by optimising river discharge statistics: Performance analysis for the average/low flow regime. <i>Physics and Chemistry of the Earth</i> , 2012 , 42-44, 77-84	3	11
50	Extreme rainstorms: Comparing regional envelope curves to stochastically generated events. <i>Water Resources Research</i> , 2012 , 48,	5.4	20
49	Assessing rating-curve uncertainty and its effects on hydraulic model calibration. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 1191-1202	5.5	92

48	Estimating the flood frequency distribution at seasonal and annual time scales. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4651-4660	5.5	25
47	Statistical Hydrology 2011 , 479-517		19
46	Floodplain management in Africa: Large scale analysis of flood data. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 292-298	3	20
45	Identifying robust large-scale flood risk mitigation strategies: A quasi-2D hydraulic model as a tool for the Po river. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 299-308	3	36
44	Data-driven catchment classification: application to the pub problem. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 1921-1935	5.5	69
43	Floodplain management strategies for flood attenuation in the river Po. <i>River Research and Applications</i> , 2011 , 27, 1037-1047	2.3	47
42	Smooth regional estimation of low-flow indices: physiographical space based interpolation and top-kriging. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 715-727	5.5	46
41	Deriving probabilistic regional envelope curves with two pooling methods. <i>Journal of Hydrology</i> , 2010 , 380, 14-26	6	19
40	Application of GPR to the monitoring of river embankments. <i>Journal of Applied Geophysics</i> , 2010 , 71, 53-61	1.7	59
39	Calibration of rainfall-runoff models in ungauged basins: A regional maximum likelihood approach. <i>Advances in Water Resources</i> , 2010 , 33, 1235-1242	4.7	55
38	A look at the links between drainage density and flood statistics. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 1019-1029	5.5	97
37	Probabilistic envelope curves for extreme rainfall events. <i>Journal of Hydrology</i> , 2009 , 378, 263-271	6	31
36	Prediction of low-flow indices in ungauged basins through physiographical space-based interpolation. <i>Journal of Hydrology</i> , 2009 , 378, 272-280	6	53
35	Probability-weighted hazard maps for comparing different flood risk management strategies: a case study. <i>Natural Hazards</i> , 2009 , 50, 479-496	3	85
34	Isla Hispaniola: A trans-boundary flood risk mitigation plan. <i>Physics and Chemistry of the Earth</i> , 2009 , 34, 209-218	3	25
33	Analysis of the effects of levee heightening on flood propagation: example of the River Po, Italy. <i>Hydrological Sciences Journal</i> , 2009 , 54, 1007-1017	3.5	96
32	Optimal Cross-Sectional Spacing in Preissmann Scheme 1D Hydrodynamic Models. <i>Journal of Hydraulic Engineering</i> , 2009 , 135, 96-105	1.8	102
31	Effects of intersite dependence of nested catchment structures on probabilistic regional envelope curves. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 1699-1712	5.5	8

30	Homogeneity testing: How homogeneous do heterogeneous cross-correlated regions seem?. <i>Journal of Hydrology</i> , 2008 , 360, 67-76	6	60
29	Multivariate probabilistic regional envelopes of extreme floods. <i>Journal of Hydrology</i> , 2007 , 336, 376-390	14	
28	Probabilistic envelope curves for design flood estimation at ungauged sites. <i>Water Resources Research</i> , 2007 , 43,	5-4	58
27	An assessment of exceedance probabilities of envelope curves. <i>Water Resources Research</i> , 2007 , 43,	5-4	13
26	Predicting annual and long-term flow-duration curves in ungauged basins. <i>Advances in Water Resources</i> , 2007 , 30, 937-953	4-7	95
25	Relationships between statistics of rainfall extremes and mean annual precipitation: an application for design-storm estimation in northern central Italy. <i>Hydrology and Earth System Sciences</i> , 2006 , 10, 589-601	5-5	69
24	Effects of land-use changes on the hydrologic response of reclamation systems. <i>Physics and Chemistry of the Earth</i> , 2005 , 30, 561-574	3	46
23	Probabilistic behavior of a regional envelope curve. <i>Water Resources Research</i> , 2005 , 41,	5-4	33
22	Regional flow-duration curves: reliability for ungauged basins. <i>Advances in Water Resources</i> , 2004 , 27, 953-965	4-7	177
21	A stochastic index flow model of flow duration curves. <i>Water Resources Research</i> , 2004 , 40,	5-4	65
20	Assessing the reliability of regional depth-duration-frequency equations for gaged and ungaged sites. <i>Water Resources Research</i> , 2003 , 39,	5-4	46
19	Assessing the effects of land-use changes on annual average gross erosion. <i>Hydrology and Earth System Sciences</i> , 2002 , 6, 255-265	5-5	27
18	At-site and regional assessment of the possible presence of non-stationarity in extreme rainfall in northern Italy. <i>Physics and Chemistry of the Earth</i> , 2001 , 26, 705-710		4
17	Assessing the effectiveness of hydrological similarity measures for flood frequency analysis. <i>Journal of Hydrology</i> , 2001 , 241, 270-285	6	158
16	Estimating the index flood using indirect methods. <i>Hydrological Sciences Journal</i> , 2001 , 46, 399-418	3-5	52
15	Prediction of flow duration curves in ungauged basins	135-162	22
14	Geostatistical prediction of flow-duration curves		3
13	On the quest for a pan-European flood frequency distribution: effect of scale and climate		5

12	Virtual laboratories: new opportunities for collaborative water science	3
11	A look at the links between drainage density and flood statistics	7
10	Geostatistical regionalization of low-flow indices: PSBI and Top-Kriging	2
9	Assessing rating-curve uncertainty and its effects on hydraulic model calibration	3
8	Data-driven catchment classification: application to the PUB problem	1
7	Topological and canonical kriging for design-flood prediction in ungauged catchments: an improvement over a traditional regional regression approach?	1
6	Effects of rating-curve uncertainty on probabilistic flood mapping	2
5	Simplified graphical tools for assessing flood-risk change over large flood-prone areas. <i>Proceedings of the International Association of Hydrological Sciences</i> ,370, 209-215	2
4	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. <i>Proceedings of the International Association of Hydrological Sciences</i> ,370, 89-95	22
3	Effects of anthropogenic land-subsidence on inundation dynamics: the case study of Ravenna, Italy. <i>Proceedings of the International Association of Hydrological Sciences</i> ,373, 161-166	3
2	Climate, orography and scale controls on flood frequency in Triveneto (Italy). <i>Proceedings of the International Association of Hydrological Sciences</i> ,373, 95-100	2
1	Joint editorial: Invigorating hydrological research through journal publications. <i>Proceedings of the International Association of Hydrological Sciences</i> ,380, 3-8	