

# Roberto Ranzi

## List of Publications by Citations

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88

papers

1,981

citations

21

h-index

43

g-index

106

ext. papers

2,294

ext. citations

4

avg, IF

4.61

L-index

#	Paper	IF	Citations
88	The Randolph Glacier Inventory: a globally complete inventory of glaciers. <i>Journal of Glaciology</i> , <b>2014</b> , 60, 537-552	3.4	669
87	MAP D-PHASE: Real-Time Demonstration of Weather Forecast Quality in the Alpine Region. <i>Bulletin of the American Meteorological Society</i> , <b>2009</b> , 90, 1321-1336	6.1	109
86	A RUSLE approach to model suspended sediment load in the Lo river (Vietnam): Effects of reservoirs and land use changes. <i>Journal of Hydrology</i> , <b>2012</b> , 422-423, 17-29	6	91
85	MAP D-PHASE: real-time demonstration of hydrological ensemble prediction systems. <i>Atmospheric Science Letters</i> , <b>2008</b> , 9, 80-87	2.4	90
84	The 1966 Brenty Flood in Italy: A meteorological and hydrological revisit. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		87
83	Scale dynamics of extensive green roofs: Quantifying the effect of drainage area and rainfall characteristics on observed and modeled green roof hydrologic performance. <i>Ecological Engineering</i> , <b>2014</b> , 73, 494-508	3.9	69
82	A conceptual model of people's vulnerability to floods. <i>Water Resources Research</i> , <b>2015</b> , 51, 182-197	5.4	62
81	Flooding Hazard Mapping in Floodplain Areas Affected by Piping Breaches in the Po River, Italy. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2014</b> , 19, 717-731	1.8	48
80	On the derivation of the areal reduction factor of storms. <i>Atmospheric Research</i> , <b>1996</b> , 42, 123-135	5.4	44
79	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. <i>Hydrological Sciences Journal</i> , <b>2016</b> , 61, 2803-2817	3.5	40
78	Effects on floods of recent afforestation and urbanisation in the Mella River (Italian Alps). <i>Hydrology and Earth System Sciences</i> , <b>2002</b> , 6, 239-254	5.5	38
77	Flood risk assessment and coping capacity of floods in central Vietnam. <i>Journal of Hydro-Environment Research</i> , <b>2017</b> , 14, 44-60	2.3	30
76	Hydrological and meteorological aspects of floods in the Alps: an overview. <i>Hydrology and Earth System Sciences</i> , <b>2003</b> , 7, 785-798	5.5	30
75	Ten years of monitoring areal snowpack in the Southern Alps using NOAA-AVHRR imagery, ground measurements and hydrological data. <i>Hydrological Processes</i> , <b>1999</b> , 13, 2079-2095	3.3	28
74	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2005</b> , 43, 2431-2442	8.1	27
73	Data reconstruction and homogenization for reducing uncertainties in high-resolution climate analysis in Alpine regions. <i>Theoretical and Applied Climatology</i> , <b>2012</b> , 110, 345-358	3	26
72	Runoff measurements and hydrological modelling for the estimation of rainfall volumes in an Alpine basin. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2003</b> , 129, 653-672	6.4	23

71	Impacts of climate change scenarios on runoff regimes in the southern Alps		23
70	Erodibility of fluidized cohesive sediments in unidirectional open flows. <i>Ocean Engineering</i> , <b>2017</b> , 130, 523-530	3.9	22
69	Hydrological aspects of the Mesoscale Alpine Programme: findings from field experiments and simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2007</b> , 133, 867-880	6.4	22
68	Study of the snow melt/freeze cycle using multi-sensor data and snow modeling. <i>Journal of Glaciology</i> , <b>2004</b> , 50, 419-426	3.4	22
67	Snow Precipitation Measured by Gauges: Systematic Error Estimation and Data Series Correction in the Central Italian Alps. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 461	3	20
66	Comparing the opportunities of Landsat-TM and Aster data for monitoring a debris covered glacier in the Italian Alps within the GLIMS project		20
65	Distributed estimation of incoming direct solar radiation over a drainage basin. <i>Journal of Hydrology</i> , <b>1995</b> , 166, 461-478	6	20
64	Copula-Based Modeling of Flood Control Reservoirs. <i>Water Resources Research</i> , <b>2017</b> , 53, 9883-9900	5.4	19
63	Surface Energy Balance of High Altitude Glaciers in the Central Andes: The Effect of Snow Penitentes <b>2006</b> , 15-27		19
62	Forecasting of storm rainfall by combined use of radar, rain gages and linear models. <i>Atmospheric Research</i> , <b>1996</b> , 42, 199-216	5.4	18
61	Hydrologic vulnerability to climate change of the Mandrone glacier (Adamello-Presanella group, Italian Alps). <i>Advances in Water Resources</i> , <b>2013</b> , 55, 190-203	4.7	17
60	Use of multispectral ASTER images for mapping debris-covered glaciers within the GLIMS project		17
59	Statistical characterization of spatial patterns of rainfall cells in extratropical cyclones. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 26277-26286		17
58	<b>2005</b> ,		15
57	Water dynamics in a gradually nonhomogeneous soil described by the linearized Richards equation. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	13
56	Innovative Probabilistic Methodology for Evaluating the Reliability of Discrete Levee Reaches Owing to Piping. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 04014067	1.8	12
55	The Influence of Glacier Retreat on Water Yield from High Mountain Areas: Comparison of Alps and Central Asia <b>2006</b> , 261-275		11
54	Long-Term Changes of Hydrological Variables in a Small Lowland Watershed in Central Poland. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 564	3	10

53	Supplement to MAP D-PHASE: Real-Time Demonstration of Weather Forecast Quality in the Alpine Region: Additional Applications of the D-Phase Datasets. <i>Bulletin of the American Meteorological Society</i> , <b>2009</b> , 90, S28-S32	6.1	9
52	A multi-century meteo-hydrological analysis for the Adda river basin (Central Alps). Part I: Gridded monthly precipitation (1800-2016) records. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 162-180	3.5	9
51	Real-time demonstration of hydrological ensemble forecasts in map d-phase. <i>Houille Blanche</i> , <b>2009</b> , 95, 95-104	0.3	8
50	Surface melting over the Greenland ice sheet derived from enhanced resolution passive microwave brightness temperatures (1979-2019). <i>Cryosphere</i> , <b>2021</b> , 15, 2623-2646	5.5	7
49	Profiles and species of Mn, Fe and trace metals in soils near a ferromanganese plant in Bagnolo Mella (Brescia, IT). <i>Science of the Total Environment</i> , <b>2021</b> , 755, 143123	10.2	7
48	Experimental and numerical investigation of backward erosion piping in heterogeneous sands <b>2016</b>		6
47	Assessment of the Water Balance in an Alpine Climate: Setup of a Micrometeorological Station and Preliminary Results. <i>Procedia Environmental Sciences</i> , <b>2013</b> , 19, 275-284		6
46	Use of Positive Degree-Day Methods for Calculating Snow and Ice Melting and Discharge in Glacierized Basins in the Langtang Valley, Central Nepal <b>2006</b> , 5-14		6
45	Copula-based modeling of earthen levee breach due to overtopping. <i>Advances in Water Resources</i> , <b>2019</b> , 134, 103433	4.7	5
44	Uncertainty propagation for flood forecasting in the Alps: different views and impacts from MAP D-PHASE. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 2439-2448	3.9	5
43	Climate Variability, Water Resources, and Hydrologic Extremes [Modeling the Water and Energy Budgets <b>2006</b> , 291-306		5
42	Bridging Mediterranean cultures in the International Year of Soils 2015: a documentary exhibition on irrigation techniques in water scarcity conditions <b>2017</b> , 48, 789-801		4
41	Evaluation of Machine Learning Techniques for Inflow Prediction in Lake Como, Italy. <i>Procedia Computer Science</i> , <b>2020</b> , 176, 918-927	1.6	4
40	Design Storm for Mixed Urban and Agricultural Drainage Systems in the Northern Delta in Vietnam. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2016</b> , 142, 04015051	1.1	4
39	Impact of Climatic and Land Use Changes on River Flows in the Southern Alps <b>2017</b> , 61-83		4
38	Permafrost Monitoring in High Mountain Areas Using a Coupled Geophysical and Meteorological Approach <b>2006</b> , 57-71		4
37	Saturated Hydraulic Conductivity and Water Retention Relationships for Alpine Mountain Soils <b>2006</b> , 101-121		4
36	Characterization of interannual and seasonal variability of hydro-climatic trends in the Upper Indus Basin. <i>Theoretical and Applied Climatology</i> , <b>2022</b> , 147, 1163-1184	3	4

35	Dynamic maps of human exposure to floods based on mobile phone data. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 3485-3500	3.9	4
34	A world of changing glaciers: Summary and climatic context <b>2014</b> , 781-840		4
33	A multi-century meteo-hydrological analysis for the Adda river basin (Central Alps). Part II: Daily runoff (1845-2016) at different scales. <i>International Journal of Climatology</i> , <b>2021</b> , 41, 181-199	3.5	4
32	A parametrization of a steady periodic solution of the Fourier equation to model soil temperature dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2015</b> , 120, 1784-1802	3.8	3
31	Snowmelt under Different Temperature Increase Scenarios in the Swiss Alps <b>2006</b> , 277-289		3
30	1845-2016 gridded dataset of monthly precipitation over the upper Adda river basin: a comparison with runoff series. <i>Advances in Science and Research</i> , <b>15</b> , 173-181		3
29	Runoff and Floods in the Alps: An Overview <b>2006</b> , 215-220		2
28	Operational Weather Radar Assessment of Convective Precipitation as an Input to Flood Modelling in Mountainous Basins <b>2006</b> , 233-246		2
27	The Microwave Alpine Snow Melting Experiment (MASMEx 2002): a contribution to the ENVISNOW project		2
26	Rain pattern detection by means of packet wavelets		2
25	A Stokesian model of areal clear-sky direct radiation for mountainous terrain. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 2893-2896	4.9	2
24	Methodologies for hydraulic hazard mapping in alluvial fan areas. <i>Proceedings of the International Association of Hydrological Sciences</i> , <b>364</b> , 267-272		2
23	Steady Lateral Flow in Sloping Soils: Which is the Effect of the Conductivity at Saturation Profile? <b>2015</b> , 2153-2156		2
22	Non Monotonic Imbibition Profiles and Transition to a Perched Water Table in a Gradually Layered Soil <b>2012</b> , 167-174		2
21	Hydroclimatic Variability and Land Cover Transformations in the Central Italian Alps. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 963	3	2
20	Alpine Climate Change and Cryospheric Responses: An Introduction <b>2006</b> , 1-4		1
19	Water Balance Modeling with Fuzzy Parameterizations: Application to An Alpine Catchment <b>2006</b> , 123-146		1
18	Comparison of Evapotranspiration and Condensation Measurements between the Giant Mountains and the Alps <b>2006</b> , 161-183		1

17	The Use of Coupled Meteorological and Hydrological Models for Flash Flood Simulation <b>2006</b> , 221-232		1
16	Geomorphological Zoning: An Improvement to Coupling Alpine Hydrology and Meteorology? <b>2006</b> , 247-260		1
15	Effects of Frozen Soil on the Groundwater Recharge in Alpine Areas <b>2006</b> , 73-83		1
14	Microwave radiometric measurements of hydrological parameters in mountain areas		1
13	A Hydrometeorological Flood Forecasting Chain for the Red and Ca rivers (China, Laos and Vietnam) Part II Investigated Areas and Model Setup. <i>UNIPA Springer Series</i> , <b>2021</b> , 3-14	0.1	1
12	European Alps <b>2014</b> , 439-463		1
11	Potential Use of Reservoirs for Mitigating Saline Intrusion in the Coastal Areas of Red River Delta <b>2018</b> ,		1
10	Water Relations of an Old-Growth Douglas Fir Stand <b>2006</b> , 147-159		0
9	Assessment of Snow-Covered Areas Using Air Temperatures During Melt in a Mountainous Basin <b>2006</b> , 45-55		0
8	Failure Probability Analysis of Levees Affected by Mammal Bioerosion. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR030559	5.4	0
7	Erratum for Flooding Hazard Mapping in Floodplain Areas Affected by Piping Breaches in the Po River, Italy By M. Mazzoleni, B. Bacchi, S. Barontini, G. Di Baldassarre, M. Pilotti, and R. Ranzi. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2014</b> , 19, 08014001	1.8	
6	Climatologic and Hydrologic Coupling in the Ecology of Norwegian High Mountain Catchments <b>2006</b> , 185-214		
5	Using Subgrid Parameterisation and a Forest Canopy Climate Model for Improving Forecasts of Snowmelt Runoff <b>2006</b> , 29-44		
4	Water Balance in Surface Soil: Analytical Solutions of Flow Equations and Measurements in the Alpine Toce Valley <b>2006</b> , 85-100		
3	An Effective Model of Sediment Deposition in Rivers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1988</b> , 21, 29-34		
2	Structural Residual Risk Due to Levee Failures in Flood Mapping <b>2015</b> , 449-452		
1	On the hydrological properties of mountain soils, from measurement to the geotechnical implications. <i>E3S Web of Conferences</i> , <b>2016</b> , 9, 16002	0.5	