Daniele Penna

List of Publications by Year
in descending order

57	2,956	186265	175258
papers	citations	28 h-index	52 g-index

100	100	100	3209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The influence of soil moisture on threshold runoff generation processes in an alpine headwater catchment. Hydrology and Earth System Sciences, 2011, 15, 689-702.	4.9	319
2	The Demographics of Water: A Review of Water Ages in the Critical Zone. Reviews of Geophysics, 2019, 57, 800-834.	23.0	197
3	Hillslope scale soil moisture variability in a steep alpine terrain. Journal of Hydrology, 2009, 364, 311-327.	5.4	171
4	Soil moisture temporal stability at different depths on two alpine hillslopes during wet and dry periods. Journal of Hydrology, 2013, 477, 55-71.	5.4	163
5	Effects of climatic seasonality on the isotopic composition of evaporating soil waters. Hydrology and Earth System Sciences, 2018, 22, 2881-2890.	4.9	124
6	On the reproducibility and repeatability of laser absorption spectroscopy measurements for Î´²H and Î´¹⁸O isotopic analysis. Hydrology and Earth System Sciences, 2010, 14, 1551-1566.	4.9	116
7	Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes â€“ challenges and opportunities from an interdisciplinary perspective. Biogeosciences, 2018, 15, 6399-6415.	3.3	115
8	A versatile index to characterize hysteresis between hydrological variables at the runoff event timescale. Hydrological Processes, 2016, 30, 1449-1466.	2.6	105
9	Tracer-based analysis of spatial and temporal variations of water sources in a glacierized catchment. Hydrology and Earth System Sciences, 2014, 18, 5271-5288.	4.9	97
10	Seasonal changes in runoff generation in a small forested mountain catchment. Hydrological Processes, 2015, 29, 2027-2042.	2.6	95
11	A new monitoring station for debris flows in the European Alps: first observations in the Gadria basin. Natural Hazards, 2014, 73, 1175-1198.	3.4	86
12	Bedload hysteresis in a glacierâ€fed mountain river. Earth Surface Processes and Landforms, 2014, 39, 964-976.	2.5	84
13	Identifying runâ€off contributions during meltâ€induced runâ€off events in a glacierized alpine catchment. Hydrological Processes, 2016, 30, 343-364.	2.6	81
14	Technical Note: Evaluation of between-sample memory effects in the analysis of Î´²H and Î´¹⁸O of water samples measured by laser spectroscopes. Hydrology and Earth System Sciences, 2012, 16, 3925-3933.	4.9	78
15	Hydrological response of an Alpine catchment to rainfall and snowmelt events. Journal of Hydrology, 2016, 537, 382-397.	5.4	75
16	Rainfall estimation from in situ soil moisture observations at several sites in Europe: an evaluation of the SM2RAIN algorithm. Journal of Hydrology and Hydromechanics, 2015, 63, 201-209.	2.0	73
17	Water sources for root water uptake: Using stable isotopes of hydrogen and oxygen as a research tool in agricultural and agroforestry systems. Agriculture, Ecosystems and Environment, 2020, 291, 106790.	5.3	65
18	The influence of grid resolution on the prediction of natural and road-related shallow landslides. Hydrology and Earth System Sciences, 2014, 18, 2127-2139.	4.9	50

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19	Towards a tracer-based conceptualization of meltwater dynamics and streamflow response in a glacierized catchment. Hydrology and Earth System Sciences, 2017, 21, 23-41.	4.9	46
20	A field and modeling study of nonlinear storage-discharge dynamics for an Alpine headwater catchment. Water Resources Research, 2014, 50, 806-822.	4.2	44
21	Conceptualization of Water Flow Pathways in Agricultural Terraced Landscapes. Land Degradation and Development, 2018, 29, 651-662.	3.9	43
22	Glacier melt runoff controls bedload transport in Alpine catchments. Earth and Planetary Science Letters, 2019, 520, 77-86.	4.4	43
23	Depth distribution of soil water sourced by plants at the global scale: A new direct inference approach. Ecohydrology, 2020, 13, e2177.	2.4	43
24	Quantification of subsurface hydrologic connectivity in four headwater catchments using graph theory. Science of the Total Environment, 2019, 646, 1265-1280.	8.0	42
25	Spatio-temporal variability of piezometric response on two steep alpine hillslopes. Hydrological Processes, 2015, 29, 198-211.	2.6	41
26	Understanding hydrological processes in glacierized catchments: Evidence and implications of highly variable isotopic and electrical conductivity data. Hydrological Processes, 2019, 33, 816-832.	2.6	38
27	Tracing the Water Sources of Trees and Streams: Isotopic Analysis in a Small Pre-Alpine Catchment. Procedia Environmental Sciences, 2013, 19, 106-112.	1.4	33
28	Response time and water origin in a steep nested catchment in the Italian Dolomites. Hydrological Processes, 2017, 31, 768-782.	2.6	31
29	Controls on spatial and temporal variability in streamflow and hydrochemistry in a glacierized catchment. Hydrology and Earth System Sciences, 2019, 23, 2041-2063.	4.9	29
30	A new method of snowmelt sampling for water stable isotopes. Hydrological Processes, 2014, 28, 5637-5644.	2.6	28
31	On the Spatio-Temporal Under-Representation of Isotopic Data in Ecohydrological Studies. Frontiers in Water, 2021, 3, .	2.3	28
32	Downscaling near-surface soil moisture from field to plot scale: A comparative analysis under different environmental conditions. Journal of Hydrology, 2018, 557, 97-108.	5.4	26
33	Spatial variability in the isotopic composition of water in small catchments and its effect on hydrograph separation. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1367.	6.5	24
34	The pulse of a montane ecosystem: coupling between daily cycles in solar flux, snowmelt, transpiration, groundwater, and streamflow at Sagehen Creek and Independence Creek, Sierra Nevada, USA. Hydrology and Earth System Sciences, 2020, 24, 5095-5123.	4.9	23
35	Runoff generation in mountain catchments: long-term hydrological monitoring in the Rio Vauz Catchment, Italy. Cuadernos De Investigacion Geografica, 2018, 44, 397-428.	1.1	22
36	How does streamflow response vary with spatial scale? Analysis of controls in three nested Alpine catchments. Journal of Hydrology, 2019, 570, 705-718.	5.4	20

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37	Alternative methods to determine the Î´2H-Î´18O relationship: An application to different water types. Journal of Hydrology, 2020, 587, 124951.	5.4	19
38	Evaporation enhancement drives the European water-budget deficit during multi-year droughts. Hydrology and Earth System Sciences, 2022, 26, 1527-1543.	4.9	18
39	A comparative study of plant water extraction methods for isotopic analyses: Scholander-type pressure chamber vs. cryogenic vacuum distillation. Hydrology and Earth System Sciences, 2022, 26, 3673-3689.	4.9	17
40	Transpiration patterns and water use strategies of beech and oak trees along a hillslope. Ecohydrology, 2022, 15, e2382.	2.4	16
41	Spatial and temporal variability of bacterial communities in high alpine water spring sediments. Research in Microbiology, 2016, 167, 325-333.	2.1	15
42	Seasonal snow cover decreases young water fractions in high Alpine catchments. Hydrological Processes, 2020, 34, 4794-4813.	2.6	15
43	The Role of Snowmelt on the Spatio-Temporal Variability of Spring Recharge in a Dolomitic Mountain Group, Italian Alps. Water (Switzerland), 2020, 12, 2256.	2.7	15
44	Sediment Transport in Proglacial Rivers. Geography of the Physical Environment, 2019, , 199-217.	0.4	13
45	Hydrologic alteration and potential ecosystemic implications under a changing climate in the Chitral River, Hindukush region, Pakistan. Journal of Water and Climate Change, 2021, 12, 1471-1486.	2.9	13
46	Water uptake of apple trees in the Alps: Where does irrigation water go?. Ecohydrology, 2021, 14, e2306.	2.4	13
47	No evidence of isotopic fractionation in olive trees (Olea europaea): a stable isotope tracing experiment. Hydrological Sciences Journal, 2021, 66, 2415-2430.	2.6	11
48	Water uptake dynamics in apple trees assessed by an isotope labeling approach. Agricultural Water Management, 2022, 266, 107572.	5.6	10
49	Ressi experimental catchment: Ecohydrological research in the Italian <scp>preâ€Alps</scp>. Hydrological Processes, 2021, 35, e14095.	2.6	6
50	7.9 Analysis of Flash-Flood Runoff Response, with Examples from Major European Events. , 2013, , 95-104.		4
51	Natural Hazards Assessment in Mountainous Terrains of Europe. , 2013, , 229-239.		4
52	Towards a more active dialogue between hydrologists and ecophysiologists for interdisciplinary studies in forest ecosystems. Science of the Total Environment, 2022, 807, 150877.	8.0	4
53	How do geomorphic characteristics affect the source of tree water uptake in restored river floodplains?. Ecohydrology, 2022, 15, .	2.4	3
54	Towards Improved Understanding of Land Use Effect on Soil Moisture Variability: Analysis and Modeling at the Plot Scale. Procedia Environmental Sciences, 2013, 19, 456-464.	1.4	1

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55	Floods in the Mediterranean area: The role of soil moisture and precipitation. , 2020, , 191-218.		1
56	Geochemical characterization of the Bormio hydrothermal system (central Italian Alps). Rendiconti Online Societa Geologica Italiana, 0, 41, 99-102.	0.3	1
57	Analysis of Flash-Flood Runoff Response, With Examples From Major European Events. , 2013, , 100-109.		1