

Daniele Penna

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,956
citations

186265

28
h-index

175258

52
g-index

100
all docs

100
docs citations

100
times ranked

3209
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a more active dialogue between hydrologists and ecophysicologists for interdisciplinary studies in forest ecosystems. <i>Science of the Total Environment</i> , 2022, 807, 150877.	8.0	4
2	Transpiration patterns and water use strategies of beech and oak trees along a hillslope. <i>Ecohydrology</i> , 2022, 15, e2382.	2.4	16
3	Evaporation enhancement drives the European water-budget deficit during multi-year droughts. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1527-1543.	4.9	18
4	Water uptake dynamics in apple trees assessed by an isotope labeling approach. <i>Agricultural Water Management</i> , 2022, 266, 107572.	5.6	10
5	How do geomorphic characteristics affect the source of tree water uptake in restored river floodplains?. <i>Ecohydrology</i> , 2022, 15, .	2.4	3
6	A comparative study of plant water extraction methods for isotopic analyses: Scholander-type pressure chamber vs. cryogenic vacuum distillation. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 3673-3689.	4.9	17
7	Hydrologic alteration and potential ecosystemic implications under a changing climate in the Chitral River, Hindukush region, Pakistan. <i>Journal of Water and Climate Change</i> , 2021, 12, 1471-1486.	2.9	13
8	On the Spatio-Temporal Under-Representation of Isotopic Data in Ecohydrological Studies. <i>Frontiers in Water</i> , 2021, 3, .	2.3	28
9	Ressi experimental catchment: Ecohydrological research in the Italian Alps. <i>Hydrological Processes</i> , 2021, 35, e14095.	2.6	6
10	Water uptake of apple trees in the Alps: Where does irrigation water go?. <i>Ecohydrology</i> , 2021, 14, e2306.	2.4	13
11	No evidence of isotopic fractionation in olive trees (<i>Olea europaea</i>): a stable isotope tracing experiment. <i>Hydrological Sciences Journal</i> , 2021, 66, 2415-2430.	2.6	11
12	Water sources for root water uptake: Using stable isotopes of hydrogen and oxygen as a research tool in agricultural and agroforestry systems. <i>Agriculture, Ecosystems and Environment</i> , 2020, 291, 106790.	5.3	65
13	Depth distribution of soil water sourced by plants at the global scale: A new direct inference approach. <i>Ecohydrology</i> , 2020, 13, e2177.	2.4	43
14	Seasonal snow cover decreases young water fractions in high Alpine catchments. <i>Hydrological Processes</i> , 2020, 34, 4794-4813.	2.6	15
15	The Role of Snowmelt on the Spatio-Temporal Variability of Spring Recharge in a Dolomitic Mountain Group, Italian Alps. <i>Water (Switzerland)</i> , 2020, 12, 2256.	2.7	15
16	Floods in the Mediterranean area: The role of soil moisture and precipitation. , 2020, , 191-218.		1
17	Alternative methods to determine the $\delta^2\text{H}$ - $\delta^{18}\text{O}$ relationship: An application to different water types. <i>Journal of Hydrology</i> , 2020, 587, 124951.	5.4	19
18	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. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5095-5123.	4.9	23

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19	Understanding hydrological processes in glacierized catchments: Evidence and implications of highly variable isotopic and electrical conductivity data. <i>Hydrological Processes</i> , 2019, 33, 816-832.	2.6	38
20	Spatial variability in the isotopic composition of water in small catchments and its effect on hydrograph separation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1367.	6.5	24
21	How does streamflow response vary with spatial scale? Analysis of controls in three nested Alpine catchments. <i>Journal of Hydrology</i> , 2019, 570, 705-718.	5.4	20
22	Glacier melt runoff controls bedload transport in Alpine catchments. <i>Earth and Planetary Science Letters</i> , 2019, 520, 77-86.	4.4	43
23	The Demographics of Water: A Review of Water Ages in the Critical Zone. <i>Reviews of Geophysics</i> , 2019, 57, 800-834.	23.0	197
24	Controls on spatial and temporal variability in streamflow and hydrochemistry in a glacierized catchment. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2041-2063.	4.9	29
25	Quantification of subsurface hydrologic connectivity in four headwater catchments using graph theory. <i>Science of the Total Environment</i> , 2019, 646, 1265-1280.	8.0	42
26	Sediment Transport in Proglacial Rivers. <i>Geography of the Physical Environment</i> , 2019, , 199-217.	0.4	13
27	Downscaling near-surface soil moisture from field to plot scale: A comparative analysis under different environmental conditions. <i>Journal of Hydrology</i> , 2018, 557, 97-108.	5.4	26
28	Conceptualization of Water Flow Pathways in Agricultural Terraced Landscapes. <i>Land Degradation and Development</i> , 2018, 29, 651-662.	3.9	43
29	Ideas and perspectives: Tracing terrestrial ecosystem water fluxes using hydrogen and oxygen stable isotopes – challenges and opportunities from an interdisciplinary perspective. <i>Biogeosciences</i> , 2018, 15, 6399-6415.	3.3	115
30	Effects of climatic seasonality on the isotopic composition of evaporating soil waters. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2881-2890.	4.9	124
31	Runoff generation in mountain catchments: long-term hydrological monitoring in the Rio Vauz Catchment, Italy. <i>Cuadernos De Investigacion Geografica</i> , 2018, 44, 397-428.	1.1	22
32	Response time and water origin in a steep nested catchment in the Italian Dolomites. <i>Hydrological Processes</i> , 2017, 31, 768-782.	2.6	31
33	Towards a tracer-based conceptualization of meltwater dynamics and streamflow response in a glacierized catchment. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 23-41.	4.9	46
34	Hydrological response of an Alpine catchment to rainfall and snowmelt events. <i>Journal of Hydrology</i> , 2016, 537, 382-397.	5.4	75
35	A versatile index to characterize hysteresis between hydrological variables at the runoff event timescale. <i>Hydrological Processes</i> , 2016, 30, 1449-1466.	2.6	105
36	Spatial and temporal variability of bacterial communities in high alpine water spring sediments. <i>Research in Microbiology</i> , 2016, 167, 325-333.	2.1	15

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37	Identifying runoff contributions during melt-induced runoff events in a glacierized alpine catchment. <i>Hydrological Processes</i> , 2016, 30, 343-364.	2.6	81
38	Rainfall estimation from in situ soil moisture observations at several sites in Europe: an evaluation of the SM2RAIN algorithm. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 201-209.	2.0	73
39	Spatio-temporal variability of piezometric response on two steep alpine hillslopes. <i>Hydrological Processes</i> , 2015, 29, 198-211.	2.6	41
40	Seasonal changes in runoff generation in a small forested mountain catchment. <i>Hydrological Processes</i> , 2015, 29, 2027-2042.	2.6	95
41	Tracer-based analysis of spatial and temporal variations of water sources in a glacierized catchment. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5271-5288.	4.9	97
42	The influence of grid resolution on the prediction of natural and road-related shallow landslides. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2127-2139.	4.9	50
43	Bedload hysteresis in a glacier-fed mountain river. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 964-976.	2.5	84
44	A new monitoring station for debris flows in the European Alps: first observations in the Gadria basin. <i>Natural Hazards</i> , 2014, 73, 1175-1198.	3.4	86
45	A new method of snowmelt sampling for water stable isotopes. <i>Hydrological Processes</i> , 2014, 28, 5637-5644.	2.6	28
46	A field and modeling study of nonlinear storage-discharge dynamics for an Alpine headwater catchment. <i>Water Resources Research</i> , 2014, 50, 806-822.	4.2	44
47	7.9 Analysis of Flash-Flood Runoff Response, with Examples from Major European Events. , 2013, , 95-104.		4
48	Soil moisture temporal stability at different depths on two alpine hillslopes during wet and dry periods. <i>Journal of Hydrology</i> , 2013, 477, 55-71.	5.4	163
49	Towards Improved Understanding of Land Use Effect on Soil Moisture Variability: Analysis and Modeling at the Plot Scale. <i>Procedia Environmental Sciences</i> , 2013, 19, 456-464.	1.4	1
50	Tracing the Water Sources of Trees and Streams: Isotopic Analysis in a Small Pre-Alpine Catchment. <i>Procedia Environmental Sciences</i> , 2013, 19, 106-112.	1.4	33
51	Natural Hazards Assessment in Mountainous Terrains of Europe. , 2013, , 229-239.		4
52	Analysis of Flash-Flood Runoff Response, With Examples From Major European Events. , 2013, , 100-109.		1
53	Technical Note: Evaluation of between-sample memory effects in the analysis of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ of water samples measured by laser spectrosopes. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3925-3933.	4.9	78
54	The influence of soil moisture on threshold runoff generation processes in an alpine headwater catchment. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 689-702.	4.9	319

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55	On the reproducibility and repeatability of laser absorption spectroscopy measurements for $\delta^{18}\text{O}$ and $\delta^2\text{H}$ isotopic analysis. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1551-1566.	4.9	116
56	Hillslope scale soil moisture variability in a steep alpine terrain. <i>Journal of Hydrology</i> , 2009, 364, 311-327.	5.4	171
57	Geochemical characterization of the Bormio hydrothermal system (central Italian Alps). <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 41, 99-102.	0.3	1