Andrea Petroselli

List of Publications by Year
in descending order

74	2,561	159585	206112
papers	citations	30 h-index	48 g-index

75	75	75	2547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multivariate return periods in hydrology: a critical and practical review focusing on synthetic design hydrograph estimation. Hydrology and Earth System Sciences, 2013, 17, 1281-1296.	4.9	226
2	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. Hydrological Sciences Journal, 2018, 63, 169-196.	2.6	151
3	Flood mapping in ungauged basins using fully continuous hydrologicâ€“hydraulic modeling. Journal of Hydrology, 2013, 487, 39-47.	5.4	137
4	Time of concentration: a paradox in modern hydrology. Hydrological Sciences Journal, 2012, 57, 217-228.	2.6	118
5	A parsimonious geomorphological unit hydrograph for rainfallâ€“runoff modelling in small ungauged basins. Hydrological Sciences Journal, 2012, 57, 73-83.	2.6	114
6	Greenâ€Ampt Curveâ€Number mixed procedure as an empirical tool for rainfallâ€“runoff modelling in small and ungauged basins. Hydrological Processes, 2013, 27, 1253-1264.	2.6	106
7	Hydrogeomorphic properties of simulated drainage patterns using digital elevation models: the flat area issue / PropriÃ©tÃ©s hydro-gÃ©omorphologiques de rÃ©seaux de drainage simulÃ©s Ã partir de modÃ¨les numÃ©riques de terrain: la question des zones planes. Hydrological Sciences Journal, 2008, 53, 1176-1193.	2.6	105
8	Flow time estimation with spatially variable hillslope velocity in ungauged basins. Advances in Water Resources, 2010, 33, 1216-1223.	3.8	87
9	Do we still need the Rational Formula? An alternative empirical procedure for peak discharge estimation in small and ungauged basins. Hydrological Sciences Journal, 2015, 60, 67-77.	2.6	77
10	UAV-DEMs for Small-Scale Flood Hazard Mapping. Water (Switzerland), 2020, 12, 1717.	2.7	73
11	Pre-processing algorithms and landslide modelling on remotely sensed DEMs. Geomorphology, 2009, 113, 110-125.	2.6	71
12	Curveâ€Number/Greenâ€“Ampt mixed procedure for streamflow predictions in ungauged basins: Parameter sensitivity analysis. Hydrological Processes, 2013, 27, 1265-1275.	2.6	62
13	Design hydrograph estimation in small and ungauged watersheds: continuous simulation method versus eventâ€based approach. Hydrological Processes, 2012, 26, 3124-3134.	2.6	61
14	Short term rainfall-runoff modelling using several machine learning methods and a conceptual event-based model. Stochastic Environmental Research and Risk Assessment, 2021, 35, 597-616.	4.0	58
15	Assessment of droneâ€based surface flow observations. Hydrological Processes, 2016, 30, 1114-1130.	2.6	57
16	Continuous hydrologic modelling for design simulation in small and ungauged basins: A step forward and some tests for its practical use. Journal of Hydrology, 2021, 595, 125664.	5.4	55
17	A continuous simulation model for design-hydrograph estimation in small and ungauged watersheds. Hydrological Sciences Journal, 2012, 57, 1035-1051.	2.6	53
18	Design hydrograph estimation in small and fully ungauged basins: a preliminary assessment of the <scp>EBA4SUB</scp> framework. Journal of Flood Risk Management, 2018, 11, .	3.3	50

#	Article	IF	Citations
19	Flood inundation mapping in small and ungauged basins: sensitivity analysis using the EBA4SUB and HEC-RAS modeling approach. Hydrology Research, 2019, 50, 1002-1019.	2.7	50
20	Catchment compatibility via copulas: A non-parametric study of the dependence structures of hydrological responses. Advances in Water Resources, 2016, 90, 116-133.	3.8	49
21	Assessment of stormwater runoff management practices and BMPs under soil sealing: A study case in a peri-urban watershed of the metropolitan area of Rome (Italy). Journal of Environmental Management, 2017, 201, 6-18.	7.8	48
22	Comparison of different methodologies for rainfallâ€“runoff modeling: machine learning vs conceptual approach. Natural Hazards, 2021, 105, 2987-3011.	3.4	42
23	Flood mapping in small ungauged basins: a comparison of different approaches for two case studies in Slovakia. Hydrology Research, 2019, 50, 379-392.	2.7	41
24	LIDAR Data and Hydrological Applications at the Basin Scale. GIScience and Remote Sensing, 2012, 49, 139-162.	5.9	39
25	Fluorescent particle tracers in surface hydrology: a proof of concept in a semi-natural hillslope. Hydrology and Earth System Sciences, 2012, 16, 2973-2983.	4.9	39
26	Estimating Maximum Daily Precipitation in the Upper Vistula Basin, Poland. Atmosphere, 2019, 10, 43.	2.3	39
27	Ecological behavior of Quercus suber and Quercus ilex inferred by topographic wetness index (TWI). Trees - Structure and Function, 2013, 27, 1201-1215.	1.9	38
28	Land Cover Change and Flood Risk in a Peri-Urban Environment of the Metropolitan Area of Rome (Italy). Water Resources Management, 2020, 34, 4399-4413.	3.9	38
29	Flood frequency analysis by an event-based rainfall-runoff model in selected catchments of southern Poland. Soil and Water Research, 2018, 13, 170-176.	1.7	35
30	A novel permanent gauge-cam station for surface-flow observations on the Tiber River. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 241-251.	1.6	34
31	A software package for predicting design-flood hydrographs in small and ungauged basins. Journal of Agricultural Engineering, 2015, 46, 74.	1.5	28
32	A Transient Stochastic Rainfall Generator for Climate Changes Analysis at Hydrological Scales in Central Italy. Atmosphere, 2020, 11, 1292.	2.3	26
33	Hillslope Erosion Mitigation: An Experimental Proof of a Nature-Based Solution. Sustainability, 2021, 13, 6058.	3.2	23
34	Optical sensing for stream flow observations: A review. Journal of Agricultural Engineering, 2018, 49, 199-206.	1.5	19
35	Description and preliminary results of a 100 square meter rain gauge. Journal of Hydrology, 2018, 556, 827-834.	5.4	18
36	Low-cost stage-camera system for continuous water-level monitoring in ephemeral streams. Hydrological Sciences Journal, 2022, 67, 1439-1448.	2.6	18

#	Article	IF	Citations
37	Comparison of design peak flow estimation methods for ungauged basins in Iran. Hydrological Sciences Journal, 2020, 65, 127-137.	2.6	17
38	Possibility of Using Selected Rainfall-Runoff Models for Determining the Design Hydrograph in Mountainous Catchments: A Case Study in Poland. Water (Switzerland), 2020, 12, 1450.	2.7	17
39	STORAGE (STOchastic RAinfall GEnerator): A User-Friendly Software for Generating Long and High-Resolution Rainfall Time Series. Hydrology, 2021, 8, 76.	3.0	17
40	Continuous hydrologic modelling for small and ungauged basins: A comparison of eight rainfall models for sub-daily runoff simulations. Journal of Hydrology, 2022, 610, 127866.	5.4	17
41	The Flat-Area Issue in Digital Elevation Models and Its Consequences for Rainfall-Runoff Modeling. GIScience and Remote Sensing, 2012, 49, 711-734.	5.9	16
42	New approach for determining the quantiles of maximum annual flows in ungauged catchments using the EBA4SUB model. Journal of Hydrology, 2020, 589, 125198.	5.4	16
43	Curve-Number/Green-Ampt Mixed Procedure for Net Rainfall Estimation: A Case Study of the Mignone Watershed, IT. Procedia Environmental Sciences, 2013, 19, 113-121.	1.4	15
44	A generalization of the EBA4SUB rainfallâ€“runoff model considering surface and subsurface flow. Hydrological Sciences Journal, 2020, 65, 2390-2401.	2.6	13
45	A comparison of statistical methods for evaluating missing data of monitoring wells in the Kazeroun Plain, Fars Province, Iran. Groundwater for Sustainable Development, 2020, 10, 100294.	4.6	12
46	Impacts of Land Use and Land Cover Changes on PeakDischarge and Flow Volume in Kakia and Esamburmbur Sub-Catchments of Narok Town, Kenya. Hydrology, 2021, 8, 82.	3.0	12
47	Rainfall-runoff modeling: A modification of the EBA4SUB framework for ungauged and highly impervious urban catchments. Journal of Hydrology, 2022, 606, 127371.	5.4	11
48	Design discharge estimation in small and ungauged basins: EBA4SUB framework sensitivity analysis. Journal of Agricultural Engineering, 2020, 51, 107-118.	1.5	9
49	Linking phosphorus export and hydrologic modeling: a case study in Central Italy. Environmental Monitoring and Assessment, 2014, 186, 7849-7861.	2.7	8
50	â€œCape Fearâ€â€”A Hybrid Hillslope Plot for Monitoring Hydrological Processes. Hydrology, 2017, 4, 35.	3.0	7
51	Field studies on the soil loss reduction effectiveness of three biodegradable geotextiles. Journal of Agricultural Engineering, 2018, 49, 117-123.	1.5	7
52	Verification of empirical formulas for calculating annual peak flows with specific return period in the upper Vistula basin. Acta Scientiarum Polonorum Formatio Circumiectus, 2018, 2, 145-154.	0.6	7
53	The Benefit of Continuous Hydrological Modelling for Drought Hazard Assessment in Small and Coastal Ungauged Basins: A Case Study in Southern Italy. Climate, 2022, 10, 34.	2.8	7
54	Analysis of the behavior of three digital elevation model correction methods on critical natural scenarios. Journal of Hydrology: Regional Studies, 2016, 8, 304-315.	2.4	6

#	Article	IF	Citations
55	Comparative Evaluation of the Rainfall Erosivity in the Rieti Province, Central Italy, Using Empirical Formulas and a Stochastic Rainfall Generator. Hydrology, 2021, 8, 171.	3.0	6
56	Cape Fear: monitoring basic hydrological processes in an outdoor hillslope plot. Environmental Monitoring and Assessment, 2017, 189, 132.	2.7	5
57	New Insights on Flood Mapping Procedure: Two Case Studies in Poland. Sustainability, 2020, 12, 8454.	3.2	5
58	An update on multivariate return periods in hydrology. Proceedings of the International Association of Hydrological Sciences, 0, 373, 175-178.	1.0	5
59	An Empirical Model for River Ecological Management with Uncertainty Evaluation. Water Resources Management, 2018, 32, 897-912.	3.9	4
60	Modelling Climate Changes with Stationary Models: Is It Possible or Is It a Paradox?. Lecture Notes in Computer Science, 2020, , 84-96.	1.3	4
61	Effects of Land Use-Land Cover Thematic Resolution on Environmental Evaluations. Remote Sensing, 2021, 13, 1232.	4.0	4
62	Noble biomass: restore, recycle, profit using cork oak (Quercus suber L.). Applied Mathematical Sciences, 0, 8, 6495-6513.	0.1	4
63	The Integrated System of Phytodepuration of Sile River Natural Park. International Journal of Phytoremediation, 2015, 17, 1038-1045.	3.1	3
64	Integrated System of Phytodepuration for Agroindustrial Wastewater: Three Different Case Studies. International Journal of Phytoremediation, 2015, 17, 1227-1236.	3.1	3
65	Riparian vegetation as a marker for bankfull and management discharge evaluation: The case study of Rio Torbido river basin (central Italy). Journal of Agricultural Engineering, 2021, 52, .	1.5	3
66	An evidence for enhancing the design hydrograph estimation for small and ungauged basins in Ethiopia. Journal of Hydrology: Regional Studies, 2022, 42, 101123.	2.4	3
67	Integrated system of phytodepuration and water reclamation: A comparative evaluation of four municipal wastewater treatment plants. International Journal of Phytoremediation, 2017, 19, 563-571.	3.1	2
68	Investigating runoff formation dynamics: field observations at Cape Fear experimental plot. Environmental Monitoring and Assessment, 2019, 191, 642.	2.7	2
69	The Use of Lamination Basins for Mitigation of the Urban Flooding Risk: The Case Study of Peschici. Lecture Notes in Civil Engineering, 2021, , 491-500.	0.4	2
70	Mathematical modeling and GIS applications for greenhouse energy planning in Italy. Applied Mathematical Sciences, 0, 8, 6651-6664.	0.1	2
71	Modelling annual maximum daily rainfall with the STORAGE (STOchastic RAinfall GEnerator) model. Hydrology Research, 2022, 53, 547-561.	2.7	2
72	The influence of the net rainfall mixed Curve Number â€“ Green Ampt procedure in flood hazard mapping: a case study in Central Italy. Journal of Agricultural Engineering, 2013, 44, .	1.5	1

#	Article	IF	Citations
73	Comparative analysis of flood and rainfall frequency in the ungauged sub-watersheds of Kakia and Esamburumbur in Narok town, Kenya, using the EBA4SUB rainfall-runoff model. Journal of Agricultural Engineering, 0, , .	1.5	1
74	A proposal for modifying coppicing geometry in order to reduce soil erosion in the forest areas. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12325.	1.1	0