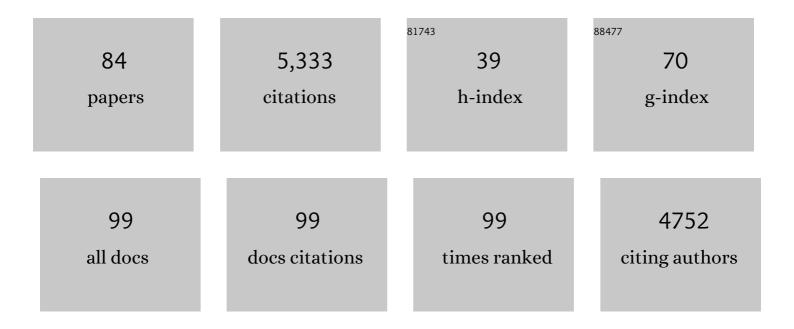
Salvatore Grimaldi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Citizens AND HYdrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. Hydrological Sciences Journal, 2022, 67, 2534-2551.	1.2	33
2	Massive feature extraction for explaining and foretelling hydroclimatic time series forecastability at the global scale. Geoscience Frontiers, 2022, 13, 101349.	4.3	10
3	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.	2.3	17
4	Low-cost stage-camera system for continuous water-level monitoring in ephemeral streams. Hydrological Sciences Journal, 2022, 67, 1439-1448.	1.2	18
5	An evidence for enhancing the design hydrograph estimation for small and ungauged basins in Ethiopia. Journal of Hydrology: Regional Studies, 2022, 42, 101123.	1.0	3
6	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.	2.3	55
7	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.	0.3	2
8	Global-scale massive feature extraction from monthly hydroclimatic time series: Statistical characterizations, spatial patterns and hydrological similarity. Science of the Total Environment, 2021, 767, 144612.	3.9	25
9	Hillslope Erosion Mitigation: An Experimental Proof of a Nature-Based Solution. Sustainability, 2021, 13, 6058.	1.6	23
10	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, .	0.7	3
11	On the Deployment of Out-of-the-Box Embedded Devices for Self-Powered River Surface Flow Velocity Monitoring at the Edge. Applied Sciences (Switzerland), 2021, 11, 7027.	1.3	6
12	Towards a Transdisciplinary Theoretical Framework of Citizen Science: Results from a Meta-Review Analysis. Sustainability, 2021, 13, 7904.	1.6	9
13	Enabling Image-Based Streamflow Monitoring at the Edge. Remote Sensing, 2020, 12, 2047.	1.8	15
14	An Evaluation of Image Velocimetry Techniques under Low Flow Conditions and High Seeding Densities Using Unmanned Aerial Systems. Remote Sensing, 2020, 12, 232.	1.8	69
15	Brief communication: Comparing hydrological and hydrogeomorphic paradigms for global flood hazard mapping. Natural Hazards and Earth System Sciences, 2020, 20, 1415-1419.	1.5	24
16	UAV-DEMs for Small-Scale Flood Hazard Mapping. Water (Switzerland), 2020, 12, 1717.	1.2	73
17	The Benefit of Continuous Modelling for Design Hydrograph Estimation in Small and Ungauged Basins. Lecture Notes in Civil Engineering, 2020, , 133-139.	0.3	1
18	Design discharge estimation in small and ungauged basins: EBA4SUB framework sensitivity analysis. Journal of Agricultural Engineering, 2020, 51, 107-118.	0.7	9

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19	Towards harmonisation of image velocimetry techniques for river surface velocity observations. Earth System Science Data, 2020, 12, 1545-1559.	3.7	44
20	Investigating runoff formation dynamics: field observations at Cape Fear experimental plot. Environmental Monitoring and Assessment, 2019, 191, 642.	1.3	2
21	Challenges, Opportunities, and Pitfalls for Global Coupled Hydrologicâ€Hydraulic Modeling of Floods. Water Resources Research, 2019, 55, 5277-5300.	1.7	52
22	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	1.2	474
23	PTV-Stream: A simplified particle tracking velocimetry framework for stream surface flow monitoring. Catena, 2019, 172, 378-386.	2.2	38
24	GFPLAIN250m, a global high-resolution dataset of Earth's floodplains. Scientific Data, 2019, 6, 180309.	2.4	92
25	Description and preliminary results of a 100 square meter rain gauge. Journal of Hydrology, 2018, 556, 827-834.	2.3	18
26	Effective Representation of River Geometry in Hydraulic Flood Forecast Models. Water Resources Research, 2018, 54, 1031-1057.	1.7	44
27	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. Hydrological Sciences Journal, 2018, 63, 169-196.	1.2	151
28	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, .	1.6	50
29	Optical Tracking Velocimetry (OTV): Leveraging Optical Flow and Trajectory-Based Filtering for Surface Streamflow Observations. Remote Sensing, 2018, 10, 2010.	1.8	49
30	Optical sensing for stream flow observations: A review. Journal of Agricultural Engineering, 2018, 49, 199-206.	0.7	19
31	Field studies on the soil loss reduction effectiveness of three biodegradable geotextiles. Journal of Agricultural Engineering, 2018, 49, 117-123.	0.7	7
32	lce dices for monitoring stream surface velocity. Journal of Hydro-Environment Research, 2017, 14, 143-149.	1.0	21
33	"Cape Fearâ€â€"A Hybrid Hillslope Plot for Monitoring Hydrological Processes. Hydrology, 2017, 4, 35.	1.3	7
34	Optimized glcm-based texture features for improved SAR-based flood mapping. , 2017, , .		4
35	Streamflow Observations From Cameras: Large cale Particle Image Velocimetry or Particle Tracking Velocimetry?. Water Resources Research, 2017, 53, 10374-10394.	1.7	63
36	A novel permanent gauge-cam station for surface-flow observations on the Tiber River. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 241-251.	0.6	34

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#	Article	IF	CITATIONS
37	Catchment compatibility via copulas: A non-parametric study of the dependence structures of hydrological responses. Advances in Water Resources, 2016, 90, 116-133.	1.7	49
38	Surface flow measurements from drones. Journal of Hydrology, 2016, 540, 240-245.	2.3	99
39	Flow monitoring with a camera: a case study on a flood event in the Tiber River. Environmental Monitoring and Assessment, 2016, 188, 118.	1.3	38
40	One hundred years of return period: Strengths and limitations. Water Resources Research, 2015, 51, 8570-8585.	1.7	61
41	A software package for predicting design-flood hydrographs in small and ungauged basins. Journal of Agricultural Engineering, 2015, 46, 74.	0.7	28
42	Large-Scale Particle Image Velocimetry From an Unmanned Aerial Vehicle. IEEE/ASME Transactions on Mechatronics, 2015, 20, 3269-3275.	3.7	70
43	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.	1.2	77
44	Unraveling Flow Patterns through Nonlinear Manifold Learning. PLoS ONE, 2014, 9, e91131.	1.1	17
45	Orienting the camera and firing lasers to enhance large scale particle image velocimetry for streamflow monitoring. Water Resources Research, 2014, 50, 7470-7483.	1.7	60
46	Investigation on the use of geomorphic approaches for the delineation of flood prone areas. Journal of Hydrology, 2014, 517, 863-876.	2.3	110
47	Development and Testing of an Unmanned Aerial Vehicle for Large Scale Particle Image Velocimetry. , 2014, , .		5
48	A Topological Framework for Flow Characterization and Identification. , 2014, , .		1
49	Greenâ€Ampt Curveâ€Number mixed procedure as an empirical tool for rainfall–runoff modelling in small and ungauged basins. Hydrological Processes, 2013, 27, 1253-1264.	1.1	106
50	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.	1.3	15
51	Characterization of eco-friendly fluorescent nanoparticle-doped tracers for environmental sensing. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	9
52	Fluorescent Particles for Non-intrusive Surface Flow Observations. Procedia Environmental Sciences, 2013, 19, 895-903.	1.3	1
53	Flood mapping in ungauged basins using fully continuous hydrologic–hydraulic modeling. Journal of Hydrology, 2013, 487, 39-47.	2.3	137
54	"Panta Rhei—Everything Flows― Change in hydrology and society—The IAHS Scientific Decade 2013–2022. Hydrological Sciences Journal, 2013, 58, 1256-1275.	1.2	569

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55	Curveâ€Number/Green–Ampt mixed procedure for streamflow predictions in ungauged basins: Parameter sensitivity analysis. Hydrological Processes, 2013, 27, 1265-1275.	1.1	62
56	Fluorescent eco-particles for surface flow physics analysis. AIP Advances, 2013, 3, .	0.6	15
57	The influence of the net rainfall mixed Curve Number – Green Ampt procedure in flood hazard mapping: a case study in Central Italy. Journal of Agricultural Engineering, 2013, 44, .	0.7	1
58	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.	1.9	226
59	Assessment of Fluorescent Particles for Surface Flow Analysis. Sensors, 2012, 12, 15827-15840.	2.1	13
60	Convolution of linear system using geomorphological watershed information. , 2012, , .		1
61	Tracing of shallow water flows through buoyant fluorescent particles. Flow Measurement and Instrumentation, 2012, 26, 93-101.	1.0	26
62	A continuous simulation model for design-hydrograph estimation in small and ungauged watersheds. Hydrological Sciences Journal, 2012, 57, 1035-1051.	1.2	53
63	Fluorescent particle tracers for surface flow measurements: A proof of concept in a natural stream. Water Resources Research, 2012, 48, .	1.7	37
64	A parsimonious geomorphological unit hydrograph for rainfall–runoff modelling in small ungauged basins. Hydrological Sciences Journal, 2012, 57, 73-83.	1.2	114
65	Time of concentration: a paradox in modern hydrology. Hydrological Sciences Journal, 2012, 57, 217-228.	1.2	118
66	Fluorescent particle tracers in surface hydrology: a proof of concept in a semi-natural hillslope. Hydrology and Earth System Sciences, 2012, 16, 2973-2983.	1.9	39
67	Design hydrograph estimation in small and ungauged watersheds: continuous simulation method versus eventâ€based approach. Hydrological Processes, 2012, 26, 3124-3134.	1.1	61
68	Statistical Hydrology. , 2011, , 479-517.		29
69	Synthetic Design Hydrographs Based on Distribution Functions with Finite Support. Journal of Hydrologic Engineering - ASCE, 2011, 16, 434-446.	0.8	60
70	Flow time estimation with spatially variable hillslope velocity in ungauged basins. Advances in Water Resources, 2010, 33, 1216-1223.	1.7	87
71	Characterization of Buoyant Fluorescent Particles for Field Observations of Water Flows. Sensors, 2010, 10, 11512-11529.	2.1	25
72	Pre-processing algorithms and landslide modelling on remotely sensed DEMs. Geomorphology, 2009, 113, 110-125.	1.1	71

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73	Probabilistic characterization of drought properties through copulas. Physics and Chemistry of the Earth, 2009, 34, 596-605.	1.2	185
74	Hydrogeomorphic properties of simulated drainage patterns using digital elevation models: the flat area issue / Propriétés hydro-géomorphologiques de réseaux de drainage simulés à partir de modÔles numériques de terrain: la question des zones planes. Hydrological Sciences Journal, 2008, 53, 1176-1193.	1.2	105
75	Fully Nested 3-Copula: Procedure and Application on Hydrological Data. Journal of Hydrologic Engineering - ASCE, 2007, 12, 420-430.	0.8	104
76	A physically-based method for removing pits in digital elevation models. Advances in Water Resources, 2007, 30, 2151-2158.	1.7	98
77	Investigating a floodplain scaling relation using a hydrogeomorphic delineation method. Water Resources Research, 2006, 42, .	1.7	148
78	Design hyetograph analysis with 3-copula function. Hydrological Sciences Journal, 2006, 51, 223-238.	1.2	131
79	Asymmetric copula in multivariate flood frequency analysis. Advances in Water Resources, 2006, 29, 1155-1167.	1.7	341
80	Preserving first and second moments of the slope area relationship during the interpolation of digital elevation models. Advances in Water Resources, 2005, 28, 583-588.	1.7	25
81	Linear Parametric Models Applied to Daily Hydrological Series. Journal of Hydrologic Engineering - ASCE, 2004, 9, 383-391.	0.8	47
82	Sensitivity of a physically based method for terrain interpolation to initial conditions and its conditioning on stream location. Earth Surface Processes and Landforms, 2004, 29, 587-597.	1.2	34
83	Human-flood interactions in Rome over the past 150 years. Advances in Geosciences, 0, 44, 9-13.	12.0	22
84	An update on multivariate return periods in hydrology. Proceedings of the International Association of Hydrological Sciences, 0, 373, 175-178.	1.0	5