Alfonso Senatore

List of Publications by Year
in descending order

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48	1,245	361296	377752
papers	citations	20 h-index	34 g-index

76	76	76	1647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Groundwater Resource Index (GRI) for drought monitoring and forecasting in a mediterranean climate. Journal of Hydrology, 2008, 357, 282-302.	2.3	144
2	Fully coupled atmosphereâ€hydrology simulations for the central <scp>M</scp>editerranean: Impact of enhanced hydrological parameterization for short and long time scales. Journal of Advances in Modeling Earth Systems, 2015, 7, 1693-1715.	1.3	137
3	Regional climate change projections and hydrological impact analysis for a Mediterranean basin in Southern Italy. Journal of Hydrology, 2011, 399, 70-92.	2.3	92
4	Regionalization of the Hargreaves Coefficient for the Assessment of Distributed Reference Evapotranspiration in Southern Italy. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 349-362.	0.6	63
5	EUROâ€CORDEX regional climate model analysis for the Greater Alpine Region: Performance and expected future change. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7710-7728.	1.2	53
6	An integrated Hydrological Model for Assessing Climate Change Impacts on Water Resources of the Upper Po River Basin. Water Resources Management, 2015, 29, 1193-1215.	1.9	52
7	The SCALEX Campaign: Scale-Crossing Land Surface and Boundary Layer Processes in the TERENO-preAlpine Observatory. Bulletin of the American Meteorological Society, 2017, 98, 1217-1234.	1.7	49
8	Worldwide assessment of the Penmanâ€“Monteith temperature approach for the estimation of monthly reference evapotranspiration. Theoretical and Applied Climatology, 2018, 131, 693-703.	1.3	45
9	High-resolution fully coupled atmosphericâ€“hydrological modeling: a cross-compartment regional water and energy cycle evaluation. Hydrology and Earth System Sciences, 2020, 24, 2457-2481.	1.9	43
10	Evaluation of parametric and statistical approaches for the regionalization of flow duration curves in intermittent regimes. Journal of Hydrology, 2013, 480, 19-32.	2.3	42
11	Three-dimensional unsaturated flow modeling using cellular automata. Water Resources Research, 2006, 42, .	1.7	39
12	A model based on cellular automata for the parallel simulation of 3D unsaturated flow. Parallel Computing, 2006, 32, 357-376.	1.3	38
13	Optimization of Drinking Water Distribution Systems in Relation to the Effects of Climate Change. Water (Switzerland), 2017, 9, 803.	1.2	32
14	Impact of high-resolution sea surface temperature representation on the forecast of small Mediterranean catchments' hydrological responses to heavy precipitation. Hydrology and Earth System Sciences, 2020, 24, 269-291.	1.9	32
15	Sensitivity of Modeled Precipitation to Sea Surface Temperature in Regions with Complex Topography and Coastlines: A Case Study for the Mediterranean. Journal of Hydrometeorology, 2014, 15, 2370-2396.	0.7	28
16	Brief communication: Preliminary hydro-meteorological analysis of the flash flood of 20 August 2018 in Raganello Gorge, southern Italy. Natural Hazards and Earth System Sciences, 2019, 19, 1619-1627.	1.5	26
17	Spatial Analysis and Surname Analysis: Complementary Tools for Shedding Light on Human Longevity Patterns. Annals of Human Genetics, 2008, 72, 253-260.	0.3	25
18	Stability of an overland flow scheme in the framework of a fully coupled eco-hydrological model based on the Macroscopic Cellular Automata approach. Communications in Nonlinear Science and Numerical Simulation, 2015, 21, 128-146.	1.7	25

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19	Evaluation of EURO-CORDEX (Coordinated Regional Climate Downscaling Experiment for the) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Italy: insights on drought assessment. Natural Hazards and Earth System Sciences, 2020, 20, 3057-3082.	1.5	23
20	Hierarchical climate-driven dynamics of the active channel length in temporary streams. Scientific Reports, 2021, 11, 21503.	1.6	21
21	The Open Computing Abstraction Layer for Parallel Complex Systems Modeling on Many-Core Systems. Journal of Parallel and Distributed Computing, 2018, 121, 53-70.	2.7	19
22	Monitoring and Modeling Drainage Network Contraction and Dry Down in Mediterranean Headwater Catchments. Water Resources Research, 2021, 57, e2020WR028741.	1.7	19
23	OpenCAL system extension and application to the three-dimensional Richards equation for unsaturated flow. Computers and Mathematics With Applications, 2021, 81, 133-158.	1.4	18
24	Climate conditions and drought assessment with the Palmer Drought Severity Index in Iran: evaluation of CORDEX South Asia climate projections (2070â€“2099). Climate Dynamics, 2019, 52, 865-891.	1.7	16
25	A coupled ecohydrologicalâ€“threeâ€dimensional unsaturated flow model describing energy, H₂O and CO₂ fluxes. Ecohydrology, 2010, 3, 205-225.	1.1	15
26	Multiscale assessment of the impact on air quality of an intense wildfire season in southern Italy. Science of the Total Environment, 2021, 761, 143271.	3.9	15
27	Coupled Vegetation and Soil Moisture Dynamics Modeling in Heterogeneous and Sloping Terrains. Vadose Zone Journal, 2011, 10, 206-225.	1.3	14
28	The impact of initial conditions on convection-permitting simulations of a flood event over complex mountainous terrain. Hydrology and Earth System Sciences, 2020, 24, 771-791.	1.9	14
29	Hydrometeorological Ensemble Forecast of a Highly Localized Convective Event in the Mediterranean. Water (Switzerland), 2020, 12, 1545.	1.2	14
30	Evaluating the uncertainty of climate model structure and bias correction on the hydrological impact of projected climate change in a Mediterranean catchment. Journal of Hydrology: Regional Studies, 2022, 42, 101120.	1.0	14
31	Asynchronous cellular automata subsurface flow simulations in two- and three-dimensional heterogeneous soils. Advances in Water Resources, 2021, 153, 103952.	1.7	13
32	Probabilistic Description of Streamflow and Active Length Regimes in Rivers. Water Resources Research, 2022, 58, .	1.7	10
33	Numerical Evaluation of the Effects of Increasing Ratio of Cropped to Uncropped Width on Dry Drainage Efficiency in Salty Soils. Irrigation and Drainage, 2018, 67, 91-100.	0.8	7
34	UAV Thermal Images for Water Presence Detection in a Mediterranean Headwater Catchment. Remote Sensing, 2022, 14, 108.	1.8	7
35	Cellular Automata based Modeling for the Assessment of Ecohydrological Dynamics at the Hillslope Scale: Preliminary Results. Procedia Environmental Sciences, 2013, 19, 311-320.	1.3	6
36	Regional-Scale Modeling of Reference Evapotranspiration: Intercomparison of Two Simplified Temperature- and Radiation-Based Approaches. Journal of Irrigation and Drainage Engineering - ASCE, 2015, 141, 04015022.	0.6	6

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37	Exploring the Potential of Temperature-Based Methods for Regionalization of Daily Reference Evapotranspiration in Two Spanish Regions. Journal of Irrigation and Drainage Engineering - ASCE, 2020, 146, 05020001.	0.6	6
38	Fully coupled highâ€resolution mediumâ€range forecasts: Evaluation of the hydrometeorological impact in an ensemble framework. Hydrological Processes, 2022, 36, .	1.1	5
39	Concurrent Influence of Different Natural Sources on the Particulate Matter in the Central Mediterranean Region during a Wildfire Season. Atmosphere, 2021, 12, 144.	1.0	4
40	A combined modelling system for short-term wind power forecasting based on mesoscale Numerical Weather Prediction. , 2020, , .		3
41	Preliminary Model of Saturated Flow Using Cellular Automata. Lecture Notes in Computer Science, 2020, , 256-268.	1.0	3
42	Accelerating a three-dimensional eco-hydrological cellular automaton on GPGPU with OpenCL. AIP Conference Proceedings, 2016, , .	0.3	2
43	The Role of Evapotranspiration in the Framework of Water Resource Management and Planning Under Shortage Conditions. , 2012, , .		1
44	The Quantization Algorithm Impact in Hydrological Applications: Preliminary Results. Lecture Notes in Computer Science, 2020, , 191-204.	1.0	1
45	Preface to the special session High performance computing in modeling and simulation. AIP Conference Proceedings, 2016, , .	0.3	0
46	A General Computational Formalism for Networks of Structured Grids. Lecture Notes in Computer Science, 2020, , 243-255.	1.0	0
47	Seeking for a Trade-Off Between Accuracy and Timeliness inÂMeteo-Hydrological Modeling Chains. Lecture Notes in Computer Science, 2020, , 537-544.	1.0	0
48	Evaluation of an Integrated Seasonal Forecast System for Agricultural Water Management in Mediterranean Regions. Lecture Notes in Computer Science, 2020, , 596-603.	1.0	0