Alfonso Senatore

List of Publications by Year
in descending order

48 papers	**1,245** citations	361296 **20** h-index	377752 **34** g-index
76 all docs	**76** docs citations	**76** times ranked	**1647** citing authors

#	Article	IF	Citations
1	Fully coupled highâ€resolution mediumâ€range forecasts: Evaluation of the hydrometeorological impact in an ensemble framework. Hydrological Processes, 2022, 36, .	1.1	5
2	Probabilistic Description of Streamflow and Active Length Regimes in Rivers. Water Resources Research, 2022, 58, .	1.7	10
3	UAV Thermal Images for Water Presence Detection in a Mediterranean Headwater Catchment. Remote Sensing, 2022, 14, 108.	1.8	7
4	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
5	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
6	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
7	Monitoring and Modeling Drainage Network Contraction and Dry Down in Mediterranean Headwater Catchments. Water Resources Research, 2021, 57, e2020WR028741.	1.7	19
8	Asynchronous cellular automata subsurface flow simulations in two- and three-dimensional heterogeneous soils. Advances in Water Resources, 2021, 153, 103952.	1.7	13
9	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
10	Hierarchical climate-driven dynamics of the active channel length in temporary streams. Scientific Reports, 2021, 11, 21503.	1.6	21
11	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
12	A combined modelling system for short-term wind power forecasting based on mesoscale Numerical Weather Prediction. , 2020, , .		3
13	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
14	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
15	Hydrometeorological Ensemble Forecast of a Highly Localized Convective Event in the Mediterranean. Water (Switzerland), 2020, 12, 1545.	1.2	14
16	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
17	Evaluation of EURO-CORDEX (Coordinated Regional Climate Downscaling Experiment for the) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Italy: insights on drought assessment. Natural Hazards and Earth System Sciences, 2020, 20, 3057-3082.	1.5	23
18	Preliminary Model of Saturated Flow Using Cellular Automata. Lecture Notes in Computer Science, 2020, , 256-268.	1.0	3

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19	A General Computational Formalism for Networks of Structured Grids. Lecture Notes in Computer Science, 2020, , 243-255.	1.0	0
20	Seeking for a Trade-Off Between Accuracy and Timeliness in Meteo-Hydrological Modeling Chains. Lecture Notes in Computer Science, 2020, , 537-544.	1.0	0
21	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
22	The Quantization Algorithm Impact in Hydrological Applications: Preliminary Results. Lecture Notes in Computer Science, 2020, , 191-204.	1.0	1
23	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
24	Climate conditions and drought assessment with the Palmer Drought Severity Index in Iran: evaluation of CORDEX South Asia climate projections (2070–2099). Climate Dynamics, 2019, 52, 865-891.	1.7	16
25	Worldwide assessment of the Penman–Monteith temperature approach for the estimation of monthly reference evapotranspiration. Theoretical and Applied Climatology, 2018, 131, 693-703.	1.3	45
26	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
27	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
28	Optimization of Drinking Water Distribution Systems in Relation to the Effects of Climate Change. Water (Switzerland), 2017, 9, 803.	1.2	32
29	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
30	Preface to the special session High performance computing in modeling and simulation. AIP Conference Proceedings, 2016, , .	0.3	0
31	EURO–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
32	Accelerating a three-dimensional eco-hydrological cellular automaton on GPGPU with OpenCL. AIP Conference Proceedings, 2016, , .	0.3	2
33	Fully coupled atmosphere–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
34	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
35	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
36	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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37	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
38	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
39	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
40	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
41	The Role of Evapotranspiration in the Framework of Water Resource Management and Planning Under Shortage Conditions. , 2012, , .		1
42	Coupled Vegetation and Soil Moisture Dynamics Modeling in Heterogeneous and Sloping Terrains. Vadose Zone Journal, 2011, 10, 206-225.	1.3	14
43	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
44	A coupled ecohydrological–three-dimensional unsaturated flow model describing energy, H_2O and CO_2 fluxes. Ecohydrology, 2010, 3, 205-225.	1.1	15
45	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
46	A Groundwater Resource Index (GRI) for drought monitoring and forecasting in a mediterranean climate. Journal of Hydrology, 2008, 357, 282-302.	2.3	144
47	Three-dimensional unsaturated flow modeling using cellular automata. Water Resources Research, 2006, 42, .	1.7	39
48	A model based on cellular automata for the parallel simulation of 3D unsaturated flow. Parallel Computing, 2006, 32, 357-376.	1.3	38