

Silvia Barbetta

List of Publications by Year in descending order

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40
papers

1,217
citations

430442

18
h-index

377514

34
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all docs

44
docs citations

44
times ranked

1359
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of river discharges at confluences based on Entropy theory and surface-velocity measurements. <i>Journal of Hydrology</i> , 2022, 606, 127404.	2.3	13
2	Altimetry for the future: Building on 25 years of progress. <i>Advances in Space Research</i> , 2021, 68, 319-363.	1.2	119
3	A Review of Irrigation Information Retrievals from Space and Their Utility for Users. <i>Remote Sensing</i> , 2021, 13, 4112.	1.8	76
4	Impact of animal burrows on earthen levee body vulnerability to seepage. <i>Journal of Flood Risk Management</i> , 2020, 13, .	1.6	8
5	A multilinear discrete Nash-cascade model for stage-hydrograph routing in compound river channels. <i>Hydrological Sciences Journal</i> , 2020, 65, 335-347.	1.2	11
6	A Self-Contained and Automated Method for Flood Hazard Maps Prediction in Urban Areas. <i>Water (Switzerland)</i> , 2020, 12, 1266.	1.2	6
7	Noncontact Measurement of River Surface Velocity and Discharge Estimation With a Low-Cost Doppler Radar Sensor. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 5195-5207.	2.7	27
8	Potential advantages of flow-area rating curves compared to classic stage-discharge-relations. <i>Journal of Hydrology</i> , 2020, 585, 124752.	2.3	16
9	River Bathymetry Estimate and Discharge Assessment from Remote Sensing. <i>Water Resources Research</i> , 2019, 55, 6692-6711.	1.7	51
10	Complementing near-real time satellite rainfall products with satellite soil moisture-derived rainfall through a Bayesian Inversion approach. <i>Journal of Hydrology</i> , 2019, 573, 341-351.	2.3	18
11	Flood Hydrograph Prediction Using Machine Learning Methods. <i>Water (Switzerland)</i> , 2018, 10, 968.	1.2	41
12	Real-time flood forecasting downstream river confluences using a Bayesian approach. <i>Journal of Hydrology</i> , 2018, 565, 516-523.	2.3	18
13	Levee body vulnerability to seepage: the case study of the levee failure along the Foenna stream on 1 January 2006 (central Italy). <i>Journal of Flood Risk Management</i> , 2017, 10, 314-325.	1.6	16
14	A reappraisal of bridge piers scour vulnerability: a case study in the Upper Tiber River basin (central Italy). <i>Journal of Hydrology</i> , 2017, 554, 216-232.	1.6	14
15	Assessment of river flow with significant lateral inflow through reverse routing modeling. <i>Hydrological Processes</i> , 2017, 31, 1539-1557.	1.1	19
16	Levee body seepage: a refinement of an expeditious procedure for fragility curves and vulnerability diagrams. <i>Hydrology Research</i> , 2017, 48, 763-775.	1.1	8
17	A Muskingum-based methodology for river discharge estimation and rating curve development under significant lateral inflow conditions. <i>Journal of Hydrology</i> , 2017, 554, 216-232.	2.3	26
18	The multi temporal/multi-model approach to predictive uncertainty assessment in real-time flood forecasting. <i>Journal of Hydrology</i> , 2017, 551, 555-576.	2.3	28

#	ARTICLE	IF	CITATIONS
19	From Surface Flow Velocity Measurements to Discharge Assessment by the Entropy Theory. <i>Water (Switzerland)</i> , 2017, 9, 120.	1.2	39
20	Case Study: A Real-Time Flood Forecasting System with Predictive Uncertainty Estimation for the Godavari River, India. <i>Water (Switzerland)</i> , 2016, 8, 463.	1.2	12
21	Coupling MODIS and Radar Altimetry Data for Discharge Estimation in Poorly Gauged River Basins. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 141-148.	2.3	52
22	Using globally available soil moisture indicators for flood modelling in Mediterranean catchments. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 839-853.	1.9	72
23	Comparing grey formulations of the velocity-area method and entropy method for discharge estimation with uncertainty. <i>Journal of Hydroinformatics</i> , 2014, 16, 797-811.	1.1	5
24	The use of remote sensing-derived water surface data for hydraulic model calibration. <i>Remote Sensing of Environment</i> , 2014, 149, 130-141.	4.6	90
25	Spillway Collapse of the Montedoglio Dam on the Tiber River, Central Italy: Data Collection and Event Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 1264-1270.	0.8	12
26	Real-time flood forecasting by relating local stage and remote discharge. <i>Hydrological Sciences Journal</i> , 2014, 59, 1656-1674.	1.2	2
27	Rating Curve Development at Ungauged River Sites using Variable Parameter Muskingum Discharge Routing Method. <i>Water Resources Management</i> , 2014, 28, 3783-3800.	1.9	19
28	Confidence interval of real-time forecast stages provided by the STAFOM-RCM model: the case study of the Tiber River (Italy). <i>Hydrological Processes</i> , 2014, 28, 729-743.	1.1	6
29	River Discharge Estimation by Using Altimetry Data and Simplified Flood Routing Modeling. <i>Remote Sensing</i> , 2013, 5, 4145-4162.	1.8	120
30	Enhancement and comprehensive evaluation of the Rating Curve Model for different river sites. <i>Journal of Hydrology</i> , 2012, 464-465, 376-387.	2.3	15
31	Case Study: Improving Real-Time Stage Forecasting Muskingum Model by Incorporating the Rating Curve Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 540-557.	0.8	24
32	Forecasting discharges at the downstream end of a river reach through two simple Muskingum based procedures. <i>Journal of Hydrology</i> , 2011, 399, 335-352.	2.3	21
33	Real-time flood stage forecasting by Variable Parameter Muskingum Stage hydrograph routing method. <i>Hydrology Research</i> , 2011, 42, 150-161.	1.1	11
34	On the practical applicability of the VPMS routing method for rating curve development at ungauged river sites. <i>Water Resources Research</i> , 2010, 46, .	1.7	36
35	Genetic Algorithm-Based Discharge Estimation at Sites Receiving Lateral Inflows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 463-474.	0.8	16
36	Multilinear Muskingum Method for Stage-Hydrograph Routing in Compound Channels. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 663-670.	0.8	16

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37	A methodology for discharge estimation and rating curve development at ungauged river sites. Water Resources Research, 2007, 43, .	1.7	69
38	A real-time stage Muskingum forecasting model for a site without rating curve. Hydrological Sciences Journal, 2006, 51, 66-82.	1.2	17
39	Relating Local Stage and Remote Discharge with Significant Lateral Inflow. Journal of Hydrologic Engineering - ASCE, 2005, 10, 58-69.	0.8	46
40	A multilayer soil approach for seepage process analysis in earthen levees. Journal of Flood Risk Management, 0, , .	1.6	2