

Silvia Barbetta

List of Publications by Year in descending order

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40
papers

1,217
citations

430442

18
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377514

34
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44
all docs

44
docs citations

44
times ranked

1359
citing authors

#	ARTICLE	IF	CITATIONS
1	River Discharge Estimation by Using Altimetry Data and Simplified Flood Routing Modeling. Remote Sensing, 2013, 5, 4145-4162.	1.8	120
2	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	1.2	119
3	The use of remote sensing-derived water surface data for hydraulic model calibration. Remote Sensing of Environment, 2014, 149, 130-141.	4.6	90
4	A Review of Irrigation Information Retrievals from Space and Their Utility for Users. Remote Sensing, 2021, 13, 4112.	1.8	76
5	Using globally available soil moisture indicators for flood modelling in Mediterranean catchments. Hydrology and Earth System Sciences, 2014, 18, 839-853.	1.9	72
6	A methodology for discharge estimation and rating curve development at ungauged river sites. Water Resources Research, 2007, 43, .	1.7	69
7	Coupling MODIS and Radar Altimetry Data for Discharge Estimation in Poorly Gauged River Basins. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 141-148.	2.3	52
8	River Bathymetry Estimate and Discharge Assessment from Remote Sensing. Water Resources Research, 2019, 55, 6692-6711.	1.7	51
9	Relating Local Stage and Remote Discharge with Significant Lateral Inflow. Journal of Hydrologic Engineering - ASCE, 2005, 10, 58-69.	0.8	46
10	Flood Hydrograph Prediction Using Machine Learning Methods. Water (Switzerland), 2018, 10, 968.	1.2	41
11	From Surface Flow Velocity Measurements to Discharge Assessment by the Entropy Theory. Water (Switzerland), 2017, 9, 120.	1.2	39
12	On the practical applicability of the VPMS routing method for rating curve development at ungauged river sites. Water Resources Research, 2010, 46, .	1.7	36
13	The multi temporal/multi-model approach to predictive uncertainty assessment in real-time flood forecasting. Journal of Hydrology, 2017, 551, 555-576.	2.3	28
14	Noncontact Measurement of River Surface Velocity and Discharge Estimation With a Low-Cost Doppler Radar Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5195-5207.	2.7	27
15	A Muskingum-based methodology for river discharge estimation and rating curve development under significant lateral inflow conditions. Journal of Hydrology, 2017, 554, 216-232.	2.3	26
16	Case Study: Improving Real-Time Stage Forecasting Muskingum Model by Incorporating the Rating Curve Model. Journal of Hydrologic Engineering - ASCE, 2011, 16, 540-557.	0.8	24
17	Forecasting discharges at the downstream end of a river reach through two simple Muskingum based procedures. Journal of Hydrology, 2011, 399, 335-352.	2.3	21
18	Rating Curve Development at Ungauged River Sites using Variable Parameter Muskingum Discharge Routing Method. Water Resources Management, 2014, 28, 3783-3800.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Assessment of river flow with significant lateral inflow through reverse routing modeling. <i>Hydrological Processes</i> , 2017, 31, 1539-1557.	1.1	19
20	Real-time flood forecasting downstream river confluences using a Bayesian approach. <i>Journal of Hydrology</i> , 2018, 565, 516-523.	2.3	18
21	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
22	A real-time stage Muskingum forecasting model for a site without rating curve. <i>Hydrological Sciences Journal</i> , 2006, 51, 66-82.	1.2	17
23	Genetic Algorithm-Based Discharge Estimation at Sites Receiving Lateral Inflows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 463-474.	0.8	16
24	Multilinear Muskingum Method for Stage-Hydrograph Routing in Compound Channels. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 663-670.	0.8	16
25	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
26	Potential advantages of flow-area rating curves compared to classic stage-discharge-relations. <i>Journal of Hydrology</i> , 2020, 585, 124752.	2.3	16
27	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
28	A reappraisal of bridge piers scour vulnerability: a case study in the Upper Tiber River basin (central Italy). <i>Journal of Hydrology</i> , 2016, 538, 107-114.	1.6	14
29	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
30	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
31	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
32	Real-time flood stage forecasting by Variable Parameter Muskingum Stage hydrograph routing method. <i>Hydrology Research</i> , 2011, 42, 150-161.	1.1	11
33	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
34	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
35	Impact of animal burrows on earthen levee body vulnerability to seepage. <i>Journal of Flood Risk Management</i> , 2020, 13, .	1.6	8
36	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

#	ARTICLE	IF	CITATIONS
37	A Self-Contained and Automated Method for Flood Hazard Maps Prediction in Urban Areas. Water (Switzerland), 2020, 12, 1266.	1.2	6
38	Comparing grey formulations of the velocity-area method and entropy method for discharge estimation with uncertainty. Journal of Hydroinformatics, 2014, 16, 797-811.	1.1	5
39	Real-time flood forecasting by relating local stage and remote discharge. Hydrological Sciences Journal, 2014, 59, 1656-1674.	1.2	2
40	A multilayer soil approach for seepage process analysis in earthen levees. Journal of Flood Risk Management, 0, , .	1.6	2