

# Tommaso Moramarco

## List of Publications by Citations

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95  
papers

2,580  
citations

27  
h-index

47  
g-index

99  
ext. papers

2,994  
ext. citations

4.2  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
95	Soil as a natural rain gauge: Estimating global rainfall from satellite soil moisture data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5128-5141	4.4	220
94	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 2542-2555	8.1	200
93	Estimation of Mean Velocity in Natural Channels Based on Chiu's Velocity Distribution Equation. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2004</b> , 9, 42-50	1.8	111
92	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. <i>Hydrological Sciences Journal</i> , <b>2018</b> , 63, 169-196	3.5	107
91	River Discharge Estimation by Using Altimetry Data and Simplified Flood Routing Modeling. <i>Remote Sensing</i> , <b>2013</b> , 5, 4145-4162	5	97
90	Assessment of rainfall thresholds and soil moisture modeling for operational hydrogeological risk prevention in the Umbria region (central Italy). <i>Landslides</i> , <b>2012</b> , 9, 229-237	6.6	80
89	Potential of soil moisture observations in flood modelling: Estimating initial conditions and correcting rainfall. <i>Advances in Water Resources</i> , <b>2014</b> , 74, 44-53	4.7	79
88	Improving Landslide Forecasting Using ASCAT-Derived Soil Moisture Data: A Case Study of the Torgiovannetto Landslide in Central Italy. <i>Remote Sensing</i> , <b>2012</b> , 4, 1232-1244	5	76
87	The use of remote sensing-derived water surface data for hydraulic model calibration. <i>Remote Sensing of Environment</i> , <b>2014</b> , 149, 130-141	13.2	71
86	Data Assimilation of Satellite Soil Moisture into Rainfall-Runoff Modelling: A Complex Recipe?. <i>Remote Sensing</i> , <b>2015</b> , 7, 11403-11433	5	70
85	Toward the estimation of river discharge variations using MODIS data in ungauged basins. <i>Remote Sensing of Environment</i> , <b>2013</b> , 136, 47-55	13.2	68
84	A First Assessment of the SMOS Soil Moisture Product With In Situ and Modeled Data in Italy and Luxembourg. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 1612-1622	8.1	62
83	Formulation of the Entropy Parameter Based on Hydraulic and Geometric Characteristics of River Cross Sections. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2010</b> , 15, 852-858	1.8	58
82	Rainfall estimation from in situ soil moisture observations at several sites in Europe: an evaluation of the SM2RAIN algorithm. <i>Journal of Hydrology and Hydromechanics</i> , <b>2015</b> , 63, 201-209	2.1	57
81	Rainfall-runoff modelling by using SM2RAIN-derived and state-of-the-art satellite rainfall products over Italy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2016</b> , 48, 163-173	7.3	53
80	Discharge estimation and forecasting by MODIS and altimetry data in Niger-Benue River. <i>Remote Sensing of Environment</i> , <b>2017</b> , 195, 96-106	13.2	52
79	Integration of Satellite Soil Moisture and Rainfall Observations over the Italian Territory. <i>Journal of Hydrometeorology</i> , <b>2015</b> , 16, 1341-1355	3.7	50

78	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> , <b>2015</b> , 8, 141-148	4.7	46
77	A methodology for discharge estimation and rating curve development at ungauged river sites. <i>Water Resources Research</i> , <b>2007</b> , 43,	5.4	45
76	Relating Local Stage and Remote Discharge with Significant Lateral Inflow. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2005</b> , 10, 58-69	1.8	43
75	Predicting and forecasting flow discharge at sites receiving significant lateral inflow. <i>Hydrological Processes</i> , <b>2007</b> , 21, 1848-1859	3.3	38
74	Accuracy of Kinematic Wave and Diffusion Wave Approximations for Flood Routing. I: Steady Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 1078-1088	1.8	33
73	Coupling soil moisture and precipitation observations for predicting hourly runoff at small catchment scale. <i>Journal of Hydrology</i> , <b>2014</b> , 510, 363-371	6	32
72	An entropy-based method for determining the flow depth distribution in natural channels. <i>Journal of Hydrology</i> , <b>2013</b> , 497, 176-188	6	32
71	Simple Method for Relating Local Stage and Remote Discharge. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2001</b> , 6, 78-81	1.8	32
70	River Bathymetry Estimate and Discharge Assessment from Remote Sensing. <i>Water Resources Research</i> , <b>2019</b> , 55, 6692-6711	5.4	31
69	The Use of H-SAF Soil Moisture Products for Operational Hydrology: Flood Modelling over Italy. <i>Hydrology</i> , <b>2015</b> , 2, 2-22	2.8	29
68	Spatio-temporal analysis and forecasting of drought in the plains of northwestern Algeria using the standardized precipitation index. <i>Journal of Earth System Science</i> , <b>2020</b> , 129, 1	1.8	25
67	Exploring the Potential of SRTM Topography and Radar Altimetry to Support Flood Propagation Modeling: Danube Case Study. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 04014048	1.8	24
66	Accuracy of Kinematic Wave Approximation for Flood Routing. II. Unsteady Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 1089-1096	1.8	24
65	Assessment of flooding in urbanized ungauged basins: a case study in the Upper Tiber area, Italy. <i>Hydrological Processes</i> , <b>2005</b> , 19, 1909-1924	3.3	24
64	From Surface Flow Velocity Measurements to Discharge Assessment by the Entropy Theory. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 120	3	23
63	Three Methods for Estimating the Entropy Parameter M Based on a Decreasing Number of Velocity Measurements in a River Cross-Section. <i>Entropy</i> , <b>2014</b> , 16, 2512-2529	2.8	23
62	Velocity profiles assessment in natural channels during high floods <b>2011</b> , 42, 162-170		23
61	Flood Hydrograph Prediction Using Machine Learning Methods. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 968	3	23

60	Investigating the uncertainty of satellite altimetry products for hydrodynamic modelling. <i>Hydrological Processes</i> , <b>2015</b> , 29, 4908-4918	3.3	22
59	The multi temporal/multi-model approach to predictive uncertainty assessment in real-time flood forecasting. <i>Journal of Hydrology</i> , <b>2017</b> , 551, 555-576	6	21
58	On the practical applicability of the VPMS routing method for rating curve development at ungauged river sites. <i>Water Resources Research</i> , <b>2010</b> , 46,	5.4	21
57	Case Study: Improving Real-Time Stage Forecasting Muskingum Model by Incorporating the Rating Curve Model. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2011</b> , 16, 540-557	1.8	21
56	Predicting hourly-based flow discharge hydrographs from level data using genetic algorithms. <i>Journal of Hydrology</i> , <b>2008</b> , 352, 77-93	6	19
55	Assessment of the Drought Hazard in the Tiber River Basin in Central Italy and a Comparison of New and Commonly Used Meteorological Indicators. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 05014029	1.8	18
54	Reverse Flood Routing in Natural Channels using Genetic Algorithm. <i>Water Resources Management</i> , <b>2015</b> , 29, 4241-4267	3.7	18
53	A Muskingum-based methodology for river discharge estimation and rating curve development under significant lateral inflow conditions. <i>Journal of Hydrology</i> , <b>2017</b> , 554, 216-232	6	18
52	Scaling and Filtering Approaches for the Use of Satellite Soil Moisture Observations <b>2013</b> , 411-426		18
51	Forecasting discharges at the downstream end of a river reach through two simple Muskingum based procedures. <i>Journal of Hydrology</i> , <b>2011</b> , 399, 335-352	6	18
50	On the theoretical velocity distribution and flow resistance in natural channels. <i>Journal of Hydrology</i> , <b>2017</b> , 555, 777-785	6	16
49	Potentials and limitations of Sentinel-3 for river discharge assessment. <i>Advances in Space Research</i> , <b>2021</b> , 68, 593-606	2.4	16
48	Genetic Algorithm-Based Discharge Estimation at Sites Receiving Lateral Inflows. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2009</b> , 14, 463-474	1.8	15
47	Complementing near-real time satellite rainfall products with satellite soil moisture-derived rainfall through a Bayesian Inversion approach. <i>Journal of Hydrology</i> , <b>2019</b> , 573, 341-351	6	14
46	Assessment of river flow with significant lateral inflow through reverse routing modeling. <i>Hydrological Processes</i> , <b>2017</b> , 31, 1539-1557	3.3	13
45	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 5195-5207	8.1	13
44	Near-Field Remote Sensing of Surface Velocity and River Discharge Using Radars and the Probability Concept at 10 U.S. Geological Survey Streamgages. <i>Remote Sensing</i> , <b>2020</b> , 12, 1296	5	13
43	Rating Curve Development at Ungauged River Sites using Variable Parameter Muskingum Discharge Routing Method. <i>Water Resources Management</i> , <b>2014</b> , 28, 3783-3800	3.7	13

42	Enhancement and comprehensive evaluation of the Rating Curve Model for different river sites. <i>Journal of Hydrology</i> , <b>2012</b> , 464-465, 376-387	6	13
41	Multilinear Muskingum Method for Stage-Hydrograph Routing in Compound Channels. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2009</b> , 14, 663-670	1.8	13
40	QCam: sUAS-Based Doppler Radar for Measuring River Discharge. <i>Remote Sensing</i> , <b>2020</b> , 12, 3317	5	12
39	A real-time stage Muskingum forecasting model for a site without rating curve. <i>Hydrological Sciences Journal</i> , <b>2006</b> , 51, 66-82	3.5	12
38	Case Study: A Real-Time Flood Forecasting System with Predictive Uncertainty Estimation for the Godavari River, India. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 463	3	11
37	Entropic approach to estimate the mean flow velocity: experimental investigation in laboratory flumes. <i>Environmental Fluid Mechanics</i> , <b>2015</b> , 15, 1163-1179	2.2	9
36	Fundamental Hydraulics of Cross Sections in Natural Rivers: Preliminary Analysis of a Large Data Set of Acoustic Doppler Flow Measurements. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR025986	5.4	9
35	Dip Phenomenon in High-Curved Turbulent Flows and Application of Entropy Theory. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 306	3	9
34	Spillway Collapse of the Montedoglio Dam on the Tiber River, Central Italy: Data Collection and Event Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2014</b> , 19, 1264-1270	1.8	8
33	Analysis of soil moisture dynamics beneath olive trees. <i>Hydrological Processes</i> , <b>2016</b> , 30, 4339	3.3	8
32	Real-time flood forecasting downstream river confluences using a Bayesian approach. <i>Journal of Hydrology</i> , <b>2018</b> , 565, 516-523	6	8
31	Real-time flood stage forecasting by Variable Parameter Muskingum Stage hydrograph routing method <b>2011</b> , 42, 150-161		7
30	A caution about the multilinear discrete lag-cascade model for flood routing. <i>Journal of Hydrology</i> , <b>2007</b> , 338, 308-314	6	7
29	Potential advantages of flow-area rating curves compared to classic stage-discharge-relations. <i>Journal of Hydrology</i> , <b>2020</b> , 585, 124752	6	6
28	Conventional Point-Velocity Records and Surface Velocity Observations for Estimating High Flow Discharge. <i>Entropy</i> , <b>2014</b> , 16, 5546-5559	2.8	6
27	A multilinear discrete Nash-cascade model for stage-hydrograph routing in compound river channels. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 335-347	3.5	6
26	Levee body seepage: a refinement of an expeditious procedure for fragility curves and vulnerability diagrams assessment <b>2017</b> , 48, 763-775		5
25	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> , <b>2014</b> , 28, 729-743	3.3	5

24	Entropic model application to identify cross-sectional flow effect on velocity distribution in a large amplitude meandering channel. <i>Advances in Water Resources</i> , <b>2020</b> , 143, 103678	4.7	5
23	Applicability of Kinematic model for mud-flows: An unsteady analysis. <i>Journal of Hydrology</i> , <b>2019</b> , 577, 123967	6	4
22	Assimilation of satellite soil moisture data into rainfall-runoff modelling for several catchments worldwide <b>2013</b> ,		4
21	Comparing grey formulations of the velocity-area method and entropy method for discharge estimation with uncertainty. <i>Journal of Hydroinformatics</i> , <b>2014</b> , 16, 797-811	2.6	4
20	River discharge estimation through MODIS data <b>2011</b> ,		4
19	A fast simplified model for predicting river flood inundation probabilities in poorly gauged areas. <i>Hydrological Processes</i> , <b>2015</b> , 29, 2275-2289	3.3	3
18	A Self-Contained and Automated Method for Flood Hazard Maps Prediction in Urban Areas. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1266	3	3
17	On the applicability of temporal stability analysis to raingauge network design. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 1424-1438	3.5	3
16	What perspective in remote sensing of soil moisture for hydrological applications by coarse-resolution sensors <b>2011</b> ,		3
15	Prediction of river discharges at confluences based on Entropy theory and surface-velocity measurements. <i>Journal of Hydrology</i> , <b>2022</b> , 606, 127404	6	3
14	Comparison of Different Satellite Rainfall Products Over the Italian Territory <b>2015</b> , 623-626		3
13	Discharge Estimation Using Tsallis and Shannon Entropy Theory in Natural Channels. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1786	3	3
12	Testing the use of single- and multi-mission satellite altimetry for the calibration of hydraulic models. <i>Advances in Water Resources</i> , <b>2021</b> , 151, 103887	4.7	3
11	Real-time flood forecasting by relating local stage and remote discharge. <i>Hydrological Sciences Journal</i> , <b>2014</b> , 59, 1656-1674	3.5	2
10	An information-theoretic feature for identifying changes in multitemporal SAR images: an evaluation for the detection of flooded areas <b>2007</b> ,		2
9	Analysis of Climate Change Effects on Floods Frequency Through a Continuous Hydrological Modelling. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , <b>2011</b> , 97-104	0.3	2
8	Impact of animal burrows on earthen levee body vulnerability to seepage. <i>Journal of Flood Risk Management</i> , <b>2020</b> , 13,	3.1	2
7	Soil moisture variability estimation through AMSU radiometer. <i>European Journal of Remote Sensing</i> , <b>2012</b> , 45, 89-97	2.9	1

6	Landwarn: An Operative Early Warning System for Landslides Forecasting Based on Rainfall Thresholds and Soil Moisture <b>2013</b> , 627-634		1
5	New approach to computing mean velocity and discharge. <i>Hydrological Sciences Journal</i> , <b>2021</b> , 66, 347-353		1
4	Entropy Based River Discharge Estimation Using One-Point Velocity Measurement at 0.6D. <i>Water Resources Research</i> , <b>2021</b> , 57, e2021WR029825	5.4	1
3	Applicability of Diffusive model for mud-flows: An unsteady analysis. <i>Journal of Hydrology</i> , <b>2021</b> , 600, 126512	6	1
2	Ground and Satellite Observations to Predict Flooding Phenomena. <i>Springer Transactions in Civil and Environmental Engineering</i> , <b>2021</b> , 199-214	0.4	
1	The Applicability of Time-Integrated Unit Stream Power for Estimating Bridge Pier Scour Using Noncontact Methods in a Gravel-Bed River. <i>Remote Sensing</i> , <b>2022</b> , 14, 1978	5	