

# Michele Mossa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

1,383  
citations

21  
h-index

29  
g-index

119  
ext. papers

1,747  
ext. citations

3.2  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
103	A multi-phase SPH simulation of hydraulic jump oscillations and local scouring processes downstream of bed sills. <i>Advances in Water Resources</i> , <b>2022</b> , 159, 104097	4.7	1
102	Effects of global warming on Mediterranean coral forests. <i>Scientific Reports</i> , <b>2021</b> , 11, 20703	4.9	3
101	Turbulent jet through porous obstructions under Coriolis effect: an experimental investigation. <i>Experiments in Fluids</i> , <b>2021</b> , 62, 1	2.5	
100	Comparison between the Lagrangian and Eulerian Approach for Simulating Regular and Solitary Waves Propagation, Breaking and Run-Up. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9421	2.6	1
99	Multi-phase simulation of infected respiratory cloud transmission in air. <i>AIP Advances</i> , <b>2021</b> , 11, 035035	1.5	4
98	Non-Hydrostatic Discontinuous/Continuous Galerkin Model for Wave Propagation, Breaking and Runup. <i>Computation</i> , <b>2021</b> , 9, 47	2.2	1
97	Hydraulic Jump: A Brief History and Research Challenges. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1733	3	1
96	Closure to a New Approach to Predicting Local Scour Downstream of Grade-Control Structures by M. Ben Meftah and M. Mossa. <i>Journal of Hydraulic Engineering</i> , <b>2021</b> , 147, 07021008	1.8	
95	Quasi-geostrophic jet-like flow with obstructions. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 921,	3.7	1
94	Secondary Currents with Scour Hole at Grade Control Structures. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 319	3	2
93	Meteorological and hydrodynamic data in the Mar Grande and Mar Piccolo, Italy, of the Coastal Engineering Laboratory (LIC) Survey, winter and summer 2015. <i>Earth System Science Data</i> , <b>2021</b> , 13, 599-607	10.5	1
92	Investigation on the Reflection Coefficient for Seawalls Protected by a Rubble Mound Structure. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 937	2.4	
91	Coastal vulnerability analysis to support strategies for tackling COVID-19 infection. <i>Ocean and Coastal Management</i> , <b>2021</b> , 211, 105731	3.9	3
90	Management of Dredging Activities in a Highly Vulnerable Site: Simulation Modelling and Monitoring Activity. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 1020	2.4	4
89	Exploring data from an individual stranding of a Cuvier's beaked whale in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea). <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2020</b> , 533, 151473	2.1	8
88	A mesophotic black coral forest in the Adriatic Sea. <i>Scientific Reports</i> , <b>2020</b> , 10, 8504	4.9	20
87	Modelling fluid-structure interactions: a survey of methods and experimental verification. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , <b>2020</b> , 173, 159-172	0.3	2

86	Theoretical analysis and numerical simulations of turbulent jets in a wave environment. <i>Physics of Fluids</i> , <b>2020</b> , 32, 035105	4.4	10
85	On the Need for an Integrated Large-Scale Methodology of Coastal Management: A Methodological Proposal. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 385	2.4	2
84	Performance Assessment of ERA5 Wave Data in a Swell Dominated Region. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 214	2.4	23
83	Detecting sensitive areas in confined shallow basins. <i>Environmental Modelling and Software</i> , <b>2020</b> , 126, 104659	5.2	7
82	Hydrodynamic Structure with Scour Hole Downstream of Bed Sills. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 186	3	10
81	New Approach to Predicting Local Scour Downstream of Grade-Control Structure. <i>Journal of Hydraulic Engineering</i> , <b>2020</b> , 146, 04019058	1.8	11
80	Computational simulation of round thermal jets in an ambient cross flow using a large-scale hydrodynamic model. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 920-937	1.9	1
79	A Stereoscopic System to Measure Water Waves in Laboratories. <i>Remote Sensing</i> , <b>2020</b> , 12, 2288	5	3
78	Characteristics of breaking vorticity in spilling and plunging waves investigated numerically by SPH. <i>Environmental Fluid Mechanics</i> , <b>2020</b> , 20, 233-260	2.2	11
77	Characteristics of nonbuoyant jets in a wave environment investigated numerically by SPH. <i>Environmental Fluid Mechanics</i> , <b>2020</b> , 20, 189-202	2.2	9
76	Numerical investigation of the behaviour of jets in a wave environment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 618-627	1.9	7
75	Coastline evolution based on statistical analysis and modeling. <i>Natural Hazards and Earth System Sciences</i> , <b>2019</b> , 19, 1937-1953	3.9	6
74	Experimental Observations of Turbulent Events in the Surfzone. <i>Journal of Marine Science and Engineering</i> , <b>2019</b> , 7, 332	2.4	3
73	Experimental Setup and Measuring System to Study Solitary Wave Interaction with Rigid Emergent Vegetation. <i>Sensors</i> , <b>2019</b> , 19,	3.8	5
72	Monitoring Systems and Numerical Models to Study Coastal Sites. <i>Sensors</i> , <b>2019</b> , 19,	3.8	13
71	A Combined Approach of Field Data and Earth Observation for Coastal Risk Assessment. <i>Sensors</i> , <b>2019</b> , 19,	3.8	19
70	SPH numerical investigation of the characteristics of an oscillating hydraulic jump at an abrupt drop. <i>Journal of Hydrodynamics</i> , <b>2018</b> , 30, 106-113	3.3	17
69	Vertical dense jet in flowing current. <i>Environmental Fluid Mechanics</i> , <b>2018</b> , 18, 75-96	2.2	16

68	Meteo and Hydrodynamic Measurements to Detect Physical Processes in Confined Shallow Seas. <i>Sensors</i> , <b>2018</b> , 18,	3.8	8
67	Turbulence Measurement of Vertical Dense Jets in Crossflow. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 286	3	5
66	Wave Height Attenuation and Flow Resistance Due to Emergent or Near-Emergent Vegetation. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 402	3	21
65	Experimental investigation on dispersion mechanisms in rigid and flexible vegetated beds. <i>Advances in Water Resources</i> , <b>2018</b> , 120, 98-113	4.7	23
64	Some Aspects of Turbulent Mixing of Jets in the Marine Environment. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 522	3	8
63	<b>2018</b> ,		5
62	How to Define Priorities in Coastal Vulnerability Assessment. <i>Geosciences (Switzerland)</i> , <b>2018</b> , 8, 415	2.7	22
61	Experimental and Numerical Investigation of Pre-Breaking and Breaking Vorticity within a Plunging Breaker. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 387	3	11
60	SPH numerical investigation of characteristics of hydraulic jumps. <i>Environmental Fluid Mechanics</i> , <b>2018</b> , 18, 849-870	2.2	20
59	Synergistic use of an oil drift model and remote sensing observations for oil spill monitoring. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 5530-5543	5.1	23
58	Analysis of data characterizing tide and current fluxes in coastal basins. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 3441-3454	5.5	20
57	How vegetation in flows modifies the turbulent mixing and spreading of jets. <i>Scientific Reports</i> , <b>2017</b> , 7, 6587	4.9	27
56	Enhancing the performance of hazard indexes in assessing hot spots of harbour areas by considering hydrodynamic parameters. <i>Ecological Indicators</i> , <b>2017</b> , 73, 38-45	5.8	15
55	Investigation of the current circulation offshore Taranto by using field measurements and numerical model <b>2017</b> ,		9
54	Coastal ocean forecasting with an unstructured grid model in the southern Adriatic and northern Ionian seas. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 45-59	3.9	23
53	SPH Modelling of Hydraulic Jump Oscillations at an Abrupt Drop. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 790	3	22
52	Physical modelling of buoyant effluents discharged into a cross flow <b>2016</b> ,		3
51	Integration of multitemporal SAR/InSAR techniques and NWM for coastal structures monitoring: Outline of the software system and of an operational service with COSMO-SkyMed data <b>2016</b> ,		6

50	Rethinking the process of detrainment: jets in obstructed natural flows. <i>Scientific Reports</i> , <b>2016</b> , 6, 39103-19	3.9	17
49	SPH numerical investigation of the velocity field and vorticity generation within a hydrofoil-induced spilling breaker. <i>Environmental Fluid Mechanics</i> , <b>2016</b> , 16, 267-287	2.2	15
48	A laboratory investigation into the influence of a rigid vegetation on the evolution of a round turbulent jet discharged within a cross flow. <i>Journal of Environmental Management</i> , <b>2016</b> , 173, 105-20	7.9	13
47	A modified log-law of flow velocity distribution in partly obstructed open channels. <i>Environmental Fluid Mechanics</i> , <b>2016</b> , 16, 453-479	2.2	19
46	Environmental monitoring in the Mar Grande basin (Ionian Sea, Southern Italy). <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 12662-74	5.1	18
45	Experimental studies on vertical dense jets in a crossflow <b>2016</b> ,		2
44	Two dimensional Lattice Boltzmann numerical simulation of a buoyant jet <b>2016</b> , 996-1002		1
43	Resistance and boundary shear in a partly obstructed channel flow <b>2016</b> ,		1
42	Marine Rapid Environmental Assessment in the Gulf of Taranto: a multiscale approach. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 2623-2639	3.9	14
41	Coastal ocean forecasting with an unstructured-grid model in the Southern Adriatic Northern Ionian Sea <b>2016</b> ,		4
40	Micrometeorological simulations over a coastal area using CALMET model: Atmosphere monitoring <b>2016</b> ,		3
39	Semi enclosed basin monitoring and analysis of meteo, wave, tide and current data: Sea monitoring <b>2016</b> ,		10
38	Use of SHYFEM open source hydrodynamic model for time scales analysis in a semi-enclosed basin <b>2016</b> ,		2
37	Assessment of hydrodynamics, biochemical parameters and eddy diffusivity in a semi-enclosed Ionian basin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2016</b> , 133, 176-185	2.3	13
36	Partially obstructed channel: Contraction ratio effect on the flow hydrodynamic structure and prediction of the transversal mean velocity profile. <i>Journal of Hydrology</i> , <b>2016</b> , 542, 87-100	6	14
35	Coastal Observation through Cosmo-SkyMed High-Resolution SAR Images. <i>Journal of Coastal Research</i> , <b>2016</b> , 75, 795-799	0.6	10
34	Assessment of classical and approximated models estimating regular waves kinematics. <i>Ocean Engineering</i> , <b>2016</b> , 126, 176-186	3.9	3
33	Analysis of mean velocity and turbulence measurements with ADCPs. <i>Advances in Water Resources</i> , <b>2015</b> , 81, 172-185	4.7	20

32	Experimental study of a vertical jet in a vegetated crossflow. <i>Journal of Environmental Management</i> , <b>2015</b> , 164, 19-31	7.9	19
31	Streamwise velocity profiles in coastal currents. <i>Environmental Fluid Mechanics</i> , <b>2014</b> , 14, 895	2.2	15
30	Analysis of the artificial viscosity in the smoothed particle hydrodynamics modelling of regular waves. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2014</b> , 52, 836-848	1.9	40
29	Hydrodynamic behavior in the outer shear layer of partly obstructed open channels. <i>Physics of Fluids</i> , <b>2014</b> , 26, 065102	4.4	29
28	Vegetation effects on vertical jet structures <b>2014</b> , 581-588		2
27	3D SPH modelling of hydraulic jump in a very large channel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2013</b> , 51, 158-173	1.9	48
26	A laboratory study of irregular shoaling waves. <i>Experiments in Fluids</i> , <b>2013</b> , 54, 1	2.5	15
25	Prediction of channel flow characteristics through square arrays of emergent cylinders. <i>Physics of Fluids</i> , <b>2013</b> , 25, 045102	4.4	36
24	Quantitative characterization of marine oil slick by satellite near-infrared imagery and oil drift modelling: the Fun Shai Hai case study. <i>International Journal of Remote Sensing</i> , <b>2013</b> , 34, 1838-1854	3.1	24
23	Discharge estimation in open channels by means of water level hydrograph analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2010</b> , 48, 612-619	1.9	12
22	Considerations on shock wave/boundary layer interaction in undular hydraulic jumps in horizontal channels with a very high aspect ratio. <i>European Journal of Mechanics, B/Fluids</i> , <b>2010</b> , 29, 415-429	2.4	20
21	Numerical modeling of non-hydrostatic free-surface baroclinic flows induced by suspended particles <b>2010</b> , 441-446		1
20	The FUNWAVE model application and its validation using laboratory data. <i>Coastal Engineering</i> , <b>2009</b> , 56, 773-787	4.8	25
19	Experimental study of the flow field with spilling type breaking. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2008</b> , 46, 81-86	1.9	7
18	Experimental study of recirculating flows generated by lateral shock waves in very large channels. <i>Environmental Fluid Mechanics</i> , <b>2008</b> , 8, 215-238	2.2	14
17	Analysis of the velocity field in a large rectangular channel with lateral shockwave. <i>Environmental Fluid Mechanics</i> , <b>2007</b> , 7, 519-536	2.2	18
16	The floods in Bari: What history should have taught. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2007</b> , 45, 579-594	1.9	16
15	Circulation in a Southern Italy coastal basin: Modelling and field measurements. <i>Continental Shelf Research</i> , <b>2007</b> , 27, 779-797	2.4	25

14	Field measurements and monitoring of wastewater discharge in sea water. <i>Estuarine, Coastal and Shelf Science</i> , <b>2006</b> , 68, 509-514	2.9	21
13	Scour holes downstream of bed sills in low-gradient channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2006</b> , 44, 497-509	1.9	55
12	Resistance coefficient in a smooth concentric annular pipe. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2006</b> , 44, 832-840	1.9	2
11	Experimental study on the hydrodynamics of regular breaking waves. <i>Coastal Engineering</i> , <b>2006</b> , 53, 99-113	1.3	37
10	The influence of a localised region of turbulence on the structural development of a turbulent, round, buoyant jet. <i>Fluid Dynamics Research</i> , <b>2006</b> , 38, 683-698	1.2	13
9	Relation of surface roller eddy formation and surface fluctuation in hydraulic jumps. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2005</b> , 43, 588-592	1.9	5
8	Tailwater level effects on flow conditions at an abrupt drop. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2005</b> , 43, 217-224	1.9	5
7	Behavior of Nonbuoyant Jets in a Wave Environment. <i>Journal of Hydraulic Engineering</i> , <b>2004</b> , 130, 704-717	1.8	17
6	Experimental study on the interaction of non-buoyant jets and waves. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2004</b> , 42, 13-28	1.9	27
5	Tidal current computation in the Mar Piccolo (Taranto) <b>2004</b> , 217-224		1
4	Tailwater level effects on flow conditions at an abrupt drop. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2003</b> , 41, 39-51	1.9	30
3	Wave Hydrodynamics over a Barred Beach <b>2002</b> , 1170		2
2	On the oscillating characteristics of hydraulic jumps. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>1999</b> , 37, 541-558	1.9	55
1	Flow Visualization in Bubbly Two-Phase Hydraulic Jump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1998</b> , 120, 160-165	2.1	70