Lorenzo Cappietti

List of Publications by Year
in descending order

38 papers	672 citations	687363 13 h-index	580821 25 g-index
40 all docs	40 docs citations	40 times ranked	511 citing authors

#	Article	IF	Citations
1	Analytical and Computational Fluid Dynamics Models of Wells Turbines for Oscillating Water Column Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	14
2	Wave-to-wire models of wells and impulse turbines for oscillating water column wave energy converters operating in the Mediterranean Sea. Energy, 2022, 238, 121585.	8.8	25
3	Adaptation measures for seawalls to withstand sea-level rise. Ocean Engineering, 2022, 250, 110958.	4.3	0
4	Application of integrated wave-to-wire modelling for the preliminary design of oscillating water column systems for installations in moderate wave climates. Renewable Energy, 2022, 194, 232-248.	8.9	22
5	Hydraulic performance of oscillating water column structures as anti-reflection devices to reduce harbour agitation. Coastal Engineering, 2021, 165, 103837.	4.0	16
6	The influence of waves propagating with the current on the wake of a tidal stream turbine. Applied Energy, 2021, 290, 116729.	10.1	79
7	An Inter-Model Comparison for Wave Interactions with Sea Dikes on Shallow Foreshores. Journal of Marine Science and Engineering, 2020, 8, 985.	2.6	14
8	Validation of RANS Modelling for Wave Interactions with Sea Dikes on Shallow Foreshores Using a Large-Scale Experimental Dataset. Journal of Marine Science and Engineering, 2020, 8, 650.	2.6	14
9	Wave-to-Wire Model of an Oscillating-Water-Column Wave Energy Converter and Its Application to Mediterranean Energy Hot-Spots. Energies, 2020, 13, 5582.	3.1	20
10	Efficiency and Survivability of a Floating Oscillating Water Column Wave Energy Converter Moored to the Seabed: An Overview of the EsfIOWC MaRINET2 Database. Water (Switzerland), 2020, 12, 992.	2.7	6
11	Wave-induced Water-mass Flow Across Shore-defense Detached and Emergent Rubble-mound Breakwaters. Journal of Coastal Research, 2020, 95, 197.	0.3	1
12	SPH simulation of floating structures with moorings. Coastal Engineering, 2019, 153, 103560.	4.0	90
13	Experimental Study of a Moored Floating Oscillating Water Column Wave-Energy Converter and of a Moored Cubic Box. Energies, 2019, 12, 1834.	3.1	16
14	Effect of Sea Level Rise on the Wave Overtopping Rate at Berm Breakwater. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, 04019019.	1.2	4
15	Evaluation of air compressibility effects on the performance of fixed OWC wave energy converters using CFD modelling. Renewable Energy, 2018, 119, 741-753.	8.9	86
16	An empirical model as a supporting tool to optimize the main design parameters of a stationary oscillating water column wave energy converter. Applied Energy, 2018, 231, 1205-1215.	10.1	26
17	Large-Scale Experiments of Wave-Overtopping Loads on Walls: Layer Thicknesses and Velocities. , 2018, , .		2
18	Development of Shore Platforms along the NW Coast of Italy: The Role of Wind Waves. Journal of Coastal Research, 2017, 335, 1102-1112.	0.3	7

#	Article	IF	Citations
19	Optimization of the geometry and the turbine induced damping for fixed detached and asymmetric OWC devices: A numerical study. Energy, 2017, 139, 1197-1209.	8.8	66
20	Experimental Studies of Turbulent Intensity around a Tidal Turbine Support Structure. Energies, 2017, 10, 497.	3.1	7
21	Wave Energy Assessment and Performance Estimation of State of the Art Wave Energy Converters in Italian Hotspots. Sustainability, 2016, 8, 1300.	3.2	50
22	Virtual wave flume and Oscillating Water Column modeled by lattice Boltzmann method and comparison with experimental data. International Journal of Marine Energy, 2016, 14, 41-51.	1.8	22
23	Assessing the wave energy potential in the Mediterranean Sea using WAVEWATCH III. , 2016, , .		2
24	Site-specific optimization of an OWC wave energy converter in a Mediterranean area. , 2016, , .		3
25	Numerical Modelling of Fixed Oscillating Water Column Wave Energy Conversion Devices: Toward Geometry Hydraulic Optimization. , 2015, , .		8
26	3D numerical modelling of oscillating water column wave energy conversion devices: current knowledge and OpenFOAMÂ® implementation. , 2015, , 497-504.		2
27	On salt marshes retreat: Experiments and modeling toppling failures induced by wind waves. Journal of Geophysical Research F: Earth Surface, 2014, 119, 603-620.	2.8	39
28	Wave Energy Estimation in Four Italian Nearshore Areas. , 2013, , .		2
29	Storm-Driven Hydrodynamic and Sedimentological Impacts to an Engineered Coast. Journal of Coastal Research, 2013, 165, 1461-1466.	0.3	7
30	Wave Transmission and Water Setup Behind an Emergent Rubble-Mound Breakwater. Journal of Coastal Research, 2012, 29, 694.	0.3	5
31	Modeling of the Wave Setup Inshore of an Array of Submerged Breakwaters. Journal of Waterway, Port, Coastal and Ocean Engineering, 2009, 135, 38-51.	1.2	10
32	THE BEHAVIOR OF GRAVEL NOURISHMENT IN PRESENCE OF A PROTECTIVE STRUCTURE: LABORATORY TESTS. , 2009, , .		0
33	TOWARD A COMPOSITE LABORATORY PROCESS MODELLING FOR WAVE-FLUME EXPERIMENTS. , 2009, , .		0
34	NUMERICAL SIMULATION OF AN EXPERIMENTAL SUBMERGED GROIN SYSTEM. , 2009, , .		1
35	UNCERTAINTY IN NUMERICAL MODELING OF NEAR-SHORE CIRCULATION OVER A BUMPED BOTTOM. , 2009, , .		0
36	LABORATORY EXPERIMENTS FOR THE REHABILITATION OF DETACHED BREAKWATERS AT MARINA DI MASSA (ITALY). , 2009, , .		1

#	Article	IF	Citations
37	Lattice Boltzmann Numerical Simulations of Wave-Current Interaction Within the Boundary Layer. , 2006, , 1.		0
38	A LATTICE BOLTZMANN STUDY OF THE 2D BOUNDARY LAYER CREATED BY AN OSCILLATING PLATE. International Journal of Modern Physics C, 2006, 17, 39-52.	1.7	5