

# Lorenzo Cappietti

## List of Publications by Year in descending order

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Version: 2024-02-01

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	SPH simulation of floating structures with moorings. Coastal Engineering, 2019, 153, 103560.	4.0	90
2	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
3	The influence of waves propagating with the current on the wake of a tidal stream turbine. Applied Energy, 2021, 290, 116729.	10.1	79
4	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
5	Wave Energy Assessment and Performance Estimation of State of the Art Wave Energy Converters in Italian Hotspots. Sustainability, 2016, 8, 1300.	3.2	50
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Hydraulic performance of oscillating water column structures as anti-reflection devices to reduce harbour agitation. Coastal Engineering, 2021, 165, 103837.	4.0	16
14	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
15	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
16	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
17	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
18	Numerical Modelling of Fixed Oscillating Water Column Wave Energy Conversion Devices: Toward Geometry Hydraulic Optimization. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
19	Storm-Driven Hydrodynamic and Sedimentological Impacts to an Engineered Coast. Journal of Coastal Research, 2013, 165, 1461-1466.	0.3	7
20	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
21	Experimental Studies of Turbulent Intensity around a Tidal Turbine Support Structure. Energies, 2017, 10, 497.	3.1	7
22	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
23	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
24	Wave Transmission and Water Setup Behind an Emergent Rubble-Mound Breakwater. Journal of Coastal Research, 2012, 29, 694.	0.3	5
25	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
26	Site-specific optimization of an OWC wave energy converter in a Mediterranean area. , 2016, , .		3
27	Wave Energy Estimation in Four Italian Nearshore Areas. , 2013, , .		2
28	Large-Scale Experiments of Wave-Overtopping Loads on Walls: Layer Thicknesses and Velocities. , 2018, , .		2
29	Assessing the wave energy potential in the Mediterranean Sea using WAVEWATCH III. , 2016, , .		2
30	3D numerical modelling of oscillating water column wave energy conversion devices: current knowledge and OpenFOAM® implementation. , 2015, , 497-504.		2
31	NUMERICAL SIMULATION OF AN EXPERIMENTAL SUBMERGED GROIN SYSTEM. , 2009, , .		1
32	LABORATORY EXPERIMENTS FOR THE REHABILITATION OF DETACHED BREAKWATERS AT MARINA DI MASSA (ITALY). , 2009, , .		1
33	Wave-induced Water-mass Flow Across Shore-defense Detached and Emergent Rubble-mound Breakwaters. Journal of Coastal Research, 2020, 95, 197.	0.3	1
34	Lattice Boltzmann Numerical Simulations of Wave-Current Interaction Within the Boundary Layer. , 2006, , 1.		0
35	THE BEHAVIOR OF GRAVEL NOURISHMENT IN PRESENCE OF A PROTECTIVE STRUCTURE: LABORATORY TESTS. , 2009, , .		0
36	TOWARD A COMPOSITE LABORATORY PROCESS MODELLING FOR WAVE-FLUME EXPERIMENTS. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	UNCERTAINTY IN NUMERICAL MODELING OF NEAR-SHORE CIRCULATION OVER A BUMPED BOTTOM. , 2009, , .		0
38	Adaptation measures for seawalls to withstand sea-level rise. Ocean Engineering, 2022, 250, 110958.	4.3	0