Emiliano Renzi

List of Publications by Year
in descending order

36 papers	1,012 citations	361413 20 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	580 citing authors

#	Article	IF	Citations
1	Resonant behaviour of an oscillating wave energy converter in a channel. Journal of Fluid Mechanics, 2012, 701, 482-510.	3.4	106
2	Hydrodynamics of the oscillating wave surge converter in the open ocean. European Journal of Mechanics, B/Fluids, 2013, 41, 1-10.	2.5	99
3	How does Oyster work? The simple interpretation of Oyster mathematics. European Journal of Mechanics, B/Fluids, 2014, 47, 124-131.	2.5	72
4	Landslide tsunamis propagating along a plane beach. Journal of Fluid Mechanics, 2008, 598, 107-119.	3.4	62
5	Relations for a periodic array of flap-type wave energy converters. Applied Ocean Research, 2013, 39, 31-39.	4.1	56
6	Wave-power absorption from a finite array of oscillating wave surge converters. Renewable Energy, 2014, 63, 55-68.	8.9	56
7	Power extraction in regular and random waves from an OWC in hybrid wind-wave energy systems. Ocean Engineering, 2019, 191, 106519.	4.3	52
8	Effect of a straight coast on the hydrodynamics and performance of the Oscillating Wave Surge Converter. Ocean Engineering, 2015, 105, 25-32.	4.3	46
9	Analytical and computational modelling for wave energy systems: the example of oscillating wave surge converters. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 647-662.	3.4	37
10	Landslide tsunamis propagating around a conical island. Journal of Fluid Mechanics, 2010, 650, 251-285.	3.4	30
11	Wave farm modelling of oscillating wave surge converters. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140118.	2.1	28
12	Catalogue of extreme wave events in Ireland: revised and updated for 14â€680 BP to 2017. Natural Hazards and Earth System Sciences, 2018, 18, 729-758.	3.6	28
13	Life of a droplet: Buoyant vortex dynamics drives the fate of micro-particle expiratory ejecta. Physics of Fluids, 2020, 32, 123301.	4.0	28
14	Niche Applications and Flexible Devices for Wave Energy Conversion: A Review. Energies, 2021, 14, 6537.	3.1	28
15	Hydroelectromechanical modelling of a piezoelectric wave energy converter. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160715.	2.1	27
16	On the Modelling of Tsunami Generation and Tsunami Inundation. Procedia IUTAM, 2014, 10, 338-355.	1.2	26
17	Weakly nonlinear theory for a gate-type curved array in waves. Journal of Fluid Mechanics, 2019, 869, 238-263.	3.4	25
18	A second-order theory for an array of curved wave energy converters in open sea. Journal of Fluids and Structures, 2019, 88, 315-330.	3.4	22

#	Article	IF	Citations
19	Hydro-acoustic precursors of gravity waves generated by surface pressure disturbances localised in space and time. Journal of Fluid Mechanics, 2014, 754, 250-262.	3.4	21
20	The influence of landslide shape and continental shelf on landslide generated tsunamis along a plane beach. Natural Hazards and Earth System Sciences, 2012, 12, 1503-1520.	3.6	20
21	Flap gate farm: From Venice lagoon defense to resonating wave energy production. Part 2: Synchronous response to incident waves in open sea. Applied Ocean Research, 2015, 52, 43-61.	4.1	17
22	The pressure impulse of wave slamming on an oscillating wave energy converter. Journal of Fluids and Structures, 2018, 82, 258-271.	3.4	17
23	The hydrodynamics of landslide tsunamis: current analytical models and future research directions. Landslides, 2016, 13, 1369-1377.	5.4	16
24	Wave Energy Extraction by Flexible Floaters. Energies, 2020, 13, 6167.	3.1	16
25	Motion-resonant modes of large articulated damped oscillators in waves. Journal of Fluids and Structures, 2014, 49, 705-715.	3.4	12
26	Effects of the sound speed vertical profile on the evolution of hydroacoustic waves. Journal of Fluid Mechanics, 2020, 883, .	3.4	11
27	Wave Power Extraction by an Oscillating Wave Surge Converter in Random Seas. , 2013, , .		10
28	Will oscillating wave surge converters survive tsunamis?. Theoretical and Applied Mechanics Letters, 2015, 5, 160-166.	2.8	9
29	Hydro-acoustic frequencies of the weakly compressible mild-slope equation. Journal of Fluid Mechanics, 2017, 812, 5-25.	3.4	9
30	Weakly nonlinear theory for dispersive waves generated by moving seabed deformation. Journal of Fluid Mechanics, 2022, 937, .	3.4	9
31	<scp>UK</scp> meteotsunamis: a revision and update on events and theirÂfrequency. Weather, 2020, 75, 281-287.	0.7	7
32	Application of a Moving Particle Semi-Implicit Numerical Wave Flume (MPS-NWF) to model design waves. Coastal Engineering, 2022, 172, 104066.	4.0	6
33	Wave actions on the side caissons of the Venice gates. Applied Ocean Research, 2007, 29, 210-220.	4.1	2
34	Mathematical Modelling of a Flap-Type Wave Energy Converter. , 2013, , .		1
35	Oscillating Wave Surge Converters: Interactions in a Wave Farm. , 2014, , .		1
36	Landslide Tsunamis Propagating Along a Semi-Plane Beach. , 2009, , .		0