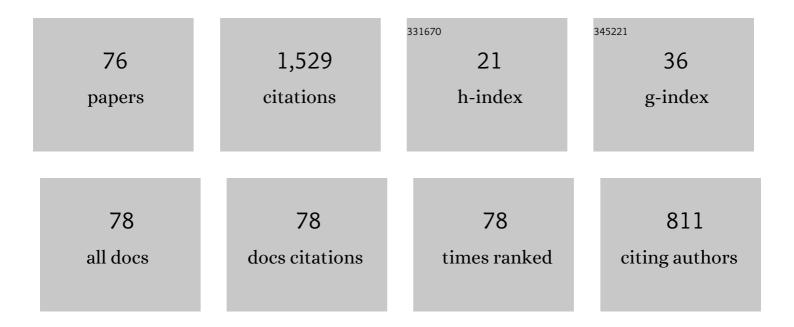
Michele Viviani

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Basic navigation, guidance and control ofÂanÂUnmanned Surface Vehicle. Autonomous Robots, 2008, 25, 349-365.	4.8	194
2	Pathâ€following algorithms and experiments for an unmanned surface vehicle. Journal of Field Robotics, 2009, 26, 669-688.	6.0	109
3	A study on the numerical prediction of propellers cavitating tip vortex. Ocean Engineering, 2014, 92, 137-161.	4.3	89
4	CPP propeller cavitation and noise optimization at different pitches with panel code and validation by cavitation tunnel measurements. Ocean Engineering, 2012, 53, 177-195.	4.3	63
5	Guidance of Unmanned Surface Vehicles: Experiments in Vehicle Following. IEEE Robotics and Automation Magazine, 2012, 19, 92-102.	2.0	60
6	Analysis of twin screw ships' asymmetric propeller behaviour by means of free running model tests. Ocean Engineering, 2013, 68, 47-64.	4.3	59
7	An extensive analysis of numerical ship self-propulsion prediction via a coupled BEM/RANS approach. Applied Ocean Research, 2017, 66, 55-78.	4.1	50
8	Design of ducted propeller nozzles through a RANSE-based optimization approach. Ocean Engineering, 2017, 145, 444-463.	4.3	40
9	Efficient and multi-objective cavitating propeller optimization: An application to a high-speed craft. Applied Ocean Research, 2017, 64, 31-57.	4.1	38
10	Analysis of the asymmetric behavior of propeller–rudder system of twin screw ships by CFD. Ocean Engineering, 2017, 143, 269-281.	4.3	36
11	Comparison of experimental and numerical sloshing loads in partially filled tanks. Ships and Offshore Structures, 2011, 6, 15-43.	1.9	34
12	EFD and CFD Characterization of a CLT Propeller. International Journal of Rotating Machinery, 2012, 2012, 1-22.	0.8	33
13	Propeller modeling approaches for off–design operative conditions. Ocean Engineering, 2019, 178, 283-305.	4.3	28
14	Propeller underwater radiated noise: A comparison between model scale measurements in two different facilities and full scale measurements. Applied Ocean Research, 2016, 56, 48-66.	4.1	26
15	Noise measurements of a cavitating propeller in different facilities: Results of the round robin test programme. Ocean Engineering, 2020, 213, 107599.	4.3	26
16	Design and Validation of Dynamic Positioning for Marine Systems: A Case Study. IEEE Journal of Oceanic Engineering, 2018, 43, 677-688.	3.8	25
17	Numerical Evaluation of Rudder Performance Behind a Propeller in Bollard Pull Condition. Journal of Marine Science and Application, 2018, 17, 153-164.	1.7	24
18	Predicting the cavitating marine propeller noise at design stage: A deep learning based approach. Ocean Engineering, 2020, 209, 107481.	4.3	24

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19	Method for estimating parameters of practical ship manoeuvring models based on the combination of RANSE computations and System Identification. Applied Ocean Research, 2015, 52, 274-294.	4.1	23
20	Two medium size cavitation tunnel hydro-acoustic benchmark experiment comparisons as part of a round robin test campaign. Ocean Engineering, 2017, 138, 179-207.	4.3	23
21	An efficient and robust approach to predict ship self-propulsion coefficients. Applied Ocean Research, 2019, 92, 101862.	4.1	22
22	Comparison of experimental and numerical loads on an impacting bow section. Ships and Offshore Structures, 2008, 3, 305-324.	1.9	21
23	EFD and CFD Design and Analysis of a Propeller in Decelerating Duct. International Journal of Rotating Machinery, 2012, 2012, 1-15.	0.8	21
24	Design and Construction of a Modular Pump-Jet Thruster for Autonomous Surface Vehicle Operations in Extremely Shallow Water. Journal of Marine Science and Engineering, 2019, 7, 222.	2.6	21
25	Z-Drive Escort Tug manoeuvrability model and simulation. Ocean Engineering, 2019, 191, 106461.	4.3	21
26	Numerical and Experimental Comparison of Ducted and Non-Ducted Propellers. Journal of Marine Science and Engineering, 2020, 8, 257.	2.6	20
27	Aspects of twin screw ships semi-empirical maneuvering models. Ocean Engineering, 2012, 48, 69-80.	4.3	19
28	SWAMP, an Autonomous Surface Vehicle expressly designed for extremely shallow waters. Ocean Engineering, 2020, 216, 108205.	4.3	19
29	Numerical Analysis of the Rudder–Propeller Interaction. Journal of Marine Science and Engineering, 2020, 8, 990.	2.6	17
30	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	1.1	16
31	Numerical analysis of escort tug manoeuvrability characteristics. Applied Ocean Research, 2020, 97, 102075.	4.1	16
32	Assessment of the Manoeuvrability Characteristics of a Twin Shaft Naval Vessel Using an Open-Source CFD Code. Journal of Marine Science and Engineering, 2021, 9, 665.	2.6	16
33	Cavitation tunnel tests for "The Princess Royal―model propeller behind a 2-dimensional wake screen. Ocean Engineering, 2019, 172, 829-843.	4.3	15
34	CFD-based analyses for a slow speed manoeuvrability model. Journal of Marine Science and Technology, 2019, 24, 871-883.	2.9	15
35	A Practical Method for the Prediction of Planing Craft Motions in Regular and Irregular Waves. , 2008, , .		14
36	An improved wake description by higher order velocity statistical moments for single screw vessel. Ocean Engineering, 2015, 108, 181-190.	4.3	14

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37	Numerical modelling of propulsion, control and ship motions in 6 degrees of freedom. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2014, 228, 373-397.	0.5	13
38	Parametric Analysis of Ship Noise Spectra. IEEE Journal of Oceanic Engineering, 2017, 42, 424-438.	3.8	13
39	Aspects of the measurement of the acoustic transfer function in a cavitation tunnel. Applied Ocean Research, 2019, 87, 264-278.	4.1	13
40	Monitoring of Sea-Ice-Atmosphere Interface in the Proximity of Arctic Tidewater Glaciers: The Contribution of Marine Robotics. Remote Sensing, 2020, 12, 1707.	4.0	13
41	Experimental investigation of pressure pulses and radiated noise for two alternative designs of the propeller of a high-speed craft. Ocean Engineering, 2017, 132, 45-69.	4.3	12
42	The use of computational fluid dynamic technique in ship control design. Ships and Offshore Structures, 2021, 16, 31-45.	1.9	12
43	Interactive design and variation of hull shapes: pros and cons of different CAD approaches. International Journal on Interactive Design and Manufacturing, 2020, 14, 103-114.	2.2	10
44	Numerical analysis of escort tug manoeuvrability characteristics – Part II: The skeg effect. Applied Ocean Research, 2020, 100, 102199.	4.1	10
45	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	1.1	10
46	An Investigation on the Discrepancies Between RANSE and BEM Approaches for the Prediction of Marine Propeller Unsteady Performances in Strongly Non-Homogeneous Wakes. , 2014, , .		9
47	Towards Posidonia Meadows Detection, Mapping and Automatic recognition using Unmanned Marine Vehicles. IFAC-PapersOnLine, 2017, 50, 12386-12391.	0.9	9
48	Development and assessment of CFD methods to calculate propeller and hull impact on the rudder inflow for a twin-screw ship. Applied Ocean Research, 2022, 125, 103227.	4.1	9
49	Design and analysis of counter-rotating propellers-comparison of numerical and experimental results. Journal of Hydrodynamics, 2010, 22, 553-559.	3.2	8
50	Model scale cavitation noise spectra prediction: Combining physical knowledge with data science. Ocean Engineering, 2019, 178, 185-203.	4.3	8
51	An All-Round Design-to-Simulation Approach of a New Z-Drive Escort Tug Class. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	1.2	8
52	Cavitation tunnel acoustic characterisation and application to model propeller radiated noise measurements at different functioning conditions. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 250-266.	0.5	7
53	A new concept of highly modular ASV for extremely shallow water applications. IFAC-PapersOnLine, 2019, 52, 181-186.	0.9	7
54	Experimental investigation of single blade loads by captive model tests in pure oblique flow. Ocean Engineering, 2020, 196, 106789.	4.3	7

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55	Simulation of the Dynamic Behaviour of a Codlag Propulsion Plant. , 2010, , .		7
56	Z-Drive Escort Tug manoeuvrability model and simulation, Part II: A full-scale validation. Ocean Engineering, 2022, 259, 111881.	4.3	7
57	Experimental investigation of single blade loads by captive model tests in pure oblique flow. Part II: Propeller in-plane loads and preliminary comparison of single blade loads during transient phases. Ocean Engineering, 2021, 234, 109149.	4.3	6
58	Additive Manufacturing Application to a Ship Propeller Model for Experimental Activity in the Cavitation Tunnel. Journal of Ship Production and Design, 2019, 35, 364-373.	0.4	5
59	Escort Tug Hydrodynamic Forces Estimation in a Design Framework: From Model Test to Manoeuvrability Simulation. , 2018, , .		4
60	Ship self-propulsion performance prediction by using OpenFOAM and different simplified propeller models. , 2018, , 195-203.		4
61	Numerical and Experimental Analysis of a CLT Propeller Cavitation Behavior. , 2012, , .		4
62	Experimental measurements and numerical simulations of underwater radiated noise from a model-scale propeller in uniform inflow. Ocean Engineering, 2022, 255, 111409.	4.3	4
63	Multi-Platforms and Multi-Sensors Integrated Survey for the Submerged and Emerged Areas. Journal of Marine Science and Engineering, 2022, 10, 753.	2.6	4
64	Direct scantling assessment of propeller blades. Applied Ocean Research, 2016, 59, 589-605.	4.1	3
65	Fatigue Strength Assessment of Propellers by Means of Weakly Coupled CFD and FEM Analyses. , 2014, , .		2
66	All Around Approach for the Design of a New Escort Tug Family. , 2018, , .		2
67	Evaluation of slamming loads using smoothed particle hydrodynamics and Reynolds-averaged Navier—Stokes methods. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2009, 223, 17-32.	0.5	1
68	Hybrid Model for Cavitation Noise Spectra Prediction. , 2019, , .		1
69	Deep Learning for Cavitating Marine Propeller Noise Prediction at Design Stage. , 2020, , .		1
70	Assessment of different methods for the prediction of marine propellers induced pressures. , 2016, , 269-278.		1
71	A preliminary experiment combining marine robotics and citizenship engagement using imitation learning. IFAC-PapersOnLine, 2020, 53, 14576-14581.	0.9	1
72	2011 Best Paper Award. Ships and Offshore Structures, 2012, 7, 1-1.	1.9	0

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73	Model scale investigation of the effect of different speed reduction strategies on cavitating propeller radiated noise. , 2015, , .		0
74	Ship propeller side effects: pressure pulses and radiated noise. Noise Mapping, 2016, 3, .	1.8	0
75	A study on the influence of hull wake on model scale cavitation and noise tests for a fast twin screw vessel with inclined shaft. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 307-330.	0.5	0
76	A Kinetic Simulator For Distributed Mechanically Linked Marine Vehicles. IFAC-PapersOnLine, 2021, 54, 266-272.	0.9	0