Stefano Brizzolara

List of Publications by Year in descending order

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76 papers	900 citations	471509 17 h-index	501196 28 g-index
82 all docs	82 docs citations	82 times ranked	778 citing authors

#	Article	IF	Citations
1	Multiomics approaches for the improvements of postharvest systems. , 2022, , 251-276.		0
2	Benchmark study of global linear wave loads on a container ship with forward speed. Marine Structures, 2022, 84, 103162.	3.8	17
3	Changes in volatile organic composition of olive oil extracted from cv. â€˜Leccinoâ€™ fruit subjected to ethylene treatments at different ripening stages. Journal of the Science of Food and Agriculture, 2021, 101, 3981-3986.	3.5	1
4	Postharvest Water Loss of Wine Grape: When, What and Why. Metabolites, 2021, 11, 318.	2.9	21
5	Parameter computation for a Lagrangian mechanical system model of a submerged vessel moving near a free surface. Ocean Engineering, 2021, 230, 108988.	4.3	4
6	An Approach for Computing Parameters for a Lagrangian Nonlinear Maneuvering and Seakeeping Model of Submerged Vessel Motion. IEEE Journal of Oceanic Engineering, 2021, 46, 749-764.	3.8	4
7	Nonlinear System Identification for the Prediction of Unsteady Vertical Plane Hydrodynamic Forces on a Planing Hull. Applied Ocean Research, 2021, 112, 102572.	4.1	2
8	Increase in Stability of an X-Configured AUV through Hydrodynamic Design Iterations with the Definition of a New Stability Index to Include Effect of Gravity. Journal of Marine Science and Engineering, 2021, 9, 942.	2.6	9
9	Metabolomic Approaches for Apple Fruit Quality Improvement. Compendium of Plant Genomes, 2021, , 311-339.	0.5	2
10	Validation of Forced Heave Simulations on a Planing Hull. , 2021, , .		0
11	The Impacts of Model Uncertainty on RANS CFD Simulations of a High-Speed Craft. , 2021, , .		0
12	Design and Experimental Validation of a Novel High-Speed Omnidirectional Underwater Propulsion Mechanism. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2339-2349.	5.8	0
13	The Impact of Sweep Angle on Stepped Planing Hull Performance. , 2021, , .		0
14	Assessing the Effect of Hydrodynamic Parameter Uncertainty on AUV Performance with Gaussian Processes. , 2021, , .		0
15	Towards an Intelligent Energy Monitoring System for an AUV using Bayes Risk. , 2021, , .		1
16	Validation Study of Reynolds Stress Model Coupled With Gamma Transition for UAV Propellers. , 2021, , .		1
17	The inner temperature of the olives (cv. Leccino) before processing affects the volatile profile and the composition of the oil. Food Research International, 2020, 129, 108861.	6.2	13
18	Primary Metabolism in Fresh Fruits During Storage. Frontiers in Plant Science, 2020, 11, 80.	3.6	103

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19	Multi-fidelity Bayesian Optimization of SWATH Hull Forms. Journal of Ship Research, 2020, 64, 154-170.	1.1	4
20	A Linear Model Analysis of the Unsteady Force Response of a Planing Hull Through Forced Vertical Plane Motion Simulations. Progress in Marine Science and Technology, 2020, , .	0.1	0
21	Method for Improving Existing Maneuvering Models to Accommodate Large Drift Angles. , 2020, , .		4
22	Relevance of transition turbulent model for hydrodynamic characteristics of low Reynolds number propeller. Applied Ocean Research, 2019, 87, 165-178.	4.1	19
23	Short-Term Responses of Apple Fruit to Partial Reoxygenation during Extreme Hypoxic Storage Conditions. Journal of Agricultural and Food Chemistry, 2019, 67, 4754-4763.	5.2	11
24	SPH simulation of periodic wave breaking in the surf zone - A detailed fluid dynamic validation. Ocean Engineering, 2019, 176, 20-30.	4.3	16
25	Physiological and Biochemical Effects of Controlled and Modified Atmospheres. , 2019, , 425-441.		2
26	Multi-fidelity Bayesian Optimization of SWATH Hull Forms. Journal of Ship Research, 2019, , .	1.1	2
27	Design and Simulation of a Novel High-Speed Omnidirectional Fully-Actuated Underwater Propulsion Mechanism. , 2019, , .		0
28	Ensuring numerical stability of wave propagation by tuning model parameters using genetic algorithms and response surface methods. Environmental Modelling and Software, 2018, 103, 62-73.	4.5	36
29	Multi-fidelity optimization of super-cavitating hydrofoils. Computer Methods in Applied Mechanics and Engineering, 2018, 332, 63-85.	6.6	37
30	Amplitude Induced Nonlinearity in Piston Mode Resonant Flow: A Fully Viscous Numerical Analysis. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	8
31	Assessment of AUV Hydrodynamic Coefficients from Analytic and Semi-Empirical Methods. , 2018, , .		4
32	Hydrodynamic Analysis of an Underwater Vehicle in Free Dive. , 2018, , .		0
33	Pitch Resonance Tuning Tanks: A novel technology for more efficient wave energy harvesting. , 2018, , .		5
34	Steering Plane Dynamics of a Small Autonomous Underwater Vehicle that Tows a Large Payload. , 2018, , .		2
35	Design of Ducted Propulsors for Towing Autonomous Underwater Vehicles. , 2018, , .		0
36	Extending the applicability of RANS turbulence closures to the simulation of transitional flow around hydrofoils at low Reynolds number. Ocean Engineering, 2018, 164, 1-12.	4.3	14

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37	Influence of large hull deformations on the motion response of a fast catamaran craft with varying stiffness. Ocean Engineering, 2018, 163, 207-222.	4.3	4
38	Mathematical Framework for Hydromechanical Time-Domain Simulation of Wave Energy Converters. Mathematical Problems in Engineering, 2018, 2018, 1-15.	1.1	3
39	Metabolic Responses to Low Temperature of Three Peach Fruit Cultivars Differently Sensitive to Cold Storage. Frontiers in Plant Science, 2018, 9, 706.	3.6	63
40	A multi-fidelity framework for investigating the performance of super-cavitating hydrofoils under uncertain flow conditions. , 2017, , .		7
41	A metabolomics approach to elucidate apple fruit responses to static and dynamic controlled atmosphere storage. Postharvest Biology and Technology, 2017, 127, 76-87.	6.0	49
42	Numerical investigation on the hydrodynamic performance of fast SWATHs with optimum canted struts arrangements. Applied Ocean Research, 2017, 63, 76-89.	4.1	25
43	Supercavitating Three-Dimensional Hydrofoil Analysis by Viscous Lifting-Line Approach. AIAA Journal, 2017, 55, 4127-4141.	2.6	17
44	Risk-Adaptive Set-Based Design and Applications to Shaping a Hydrofoil. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	25
45	Extreme Hypoxic Conditions Induce Selective Molecular Responses and Metabolic Reset in Detached Apple Fruit. Frontiers in Plant Science, 2016, 7, 146.	3.6	48
46	Physics-Based Design by Optimization of Unconventional Supercavitating Hydrofoils. Journal of Ship Research, 2016, 60, 187-202.	1.1	19
47	ASV operability at sea: Size matters as much as hull form design. , 2016, , .		1
48	Autonomous Sea Surface Vehicles. , 2016, , 323-340.		1
49	A three-dimensional vortex method for the hydrodynamic solution of planing cambered dihedral surfaces. Engineering Analysis With Boundary Elements, 2016, 63, 15-29.	3.7	6
50	Comparative CFD Investigation on the Performance of a New Family of Super-Cavitating Hydrofoils. Journal of Physics: Conference Series, 2015, 656, 012147.	0.4	6
51	The second generation of autonomous surface vessels: Optimized performance for AUVs assistance at Sea. , 2015, , .		1
52	Comparison of frozen and fresh apple pulp for NMR-based metabolomic analysis. Food Analytical Methods, 2015, 8, 2135-2140.	2.6	7
53	Effect of Inverted Bow on the Hydrodynamic Performance of Navy Combatant Hull Forms. , 2015, , .		3
54	Integrated simulation framework for crash back operation. , 2013, , .		0

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55	Influence of viscous effects on numerical prediction of motions of SWATH vessels in waves. Ocean Systems Engineering, 2013, 3, 219-236.	0.5	4
56	2011 Best Paper Award. Ships and Offshore Structures, 2012, 7, 1-1.	1.9	0
57	EFD and CFD Characterization of a CLT Propeller. International Journal of Rotating Machinery, 2012, 2012, 1-22.	0.8	33
58	Design Method for Contra-Rotating Propellers for High-Speed Crafts: Revising the Original Lerbs Theory in a Modern Perspective. International Journal of Rotating Machinery, 2012, 2012, 1-18.	0.8	4
59	Physical and Theoretical Modeling of Surface-Piercing Hydrofoils for a High-Speed Unmanned Surface Vessel. , 2012, , .		6
60	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
61	Concept design and hydrodynamic optimization of an innovative SWATH USV by CFD methods. Ocean Dynamics, 2012, 62, 227-237.	2.2	30
62	Numerical and Experimental Analysis of a CLT Propeller Cavitation Behavior. , 2012, , .		4
63	Investigation of Hull Pressure Pulses, Making Use of Two Large Scale Cavitation Test Facilities. , 2012, , .		1
64	A Reformulated Lifting Line Theory for Supercavitating Hydrofoil Design. , 2012, , .		0
65	Comparison of experimental and numerical sloshing loads in partially filled tanks. Ships and Offshore Structures, 2011, 6, 15-43.	1.9	34
66	Influence of raised invar edges on sloshing impact pressuresâ€"numerical investigations. , 2011, , 3-8.		1
67	Offshore wind generators dynamics. , 2011, , 221-228.		0
68	Nonlinear motions in head waves with a RANS and a potential code. Journal of Hydrodynamics, 2010, 22, 172-177.	3.2	8
69	RANS and PANEL method for unsteady flow propeller analysis. Journal of Hydrodynamics, 2010, 22, 547-552.	3.2	31
70	Design and analysis of counter-rotating propellers-comparison of numerical and experimental results. Journal of Hydrodynamics, 2010, 22, 553-559.	3.2	8
71	Evaluation of slamming loads using smoothed particle hydrodynamics and Reynolds-averaged Navierâ€"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
72	Comparison of experimental and numerical sloshing loads in partially filled tanks. , 2009, , 13-26.		4

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73	Comparison of experimental and numerical loads on an impacting bow section. Ships and Offshore Structures, 2008, 3, 305-324.	1.9	21
74	Design of contra-rotating propellers for high-speed stern thrusters. Ships and Offshore Structures, 2007, 2, 169-182.	1.9	10
75	Simulation of the Propulsion System Behaviour During Ship Standard Manoeuvres. , 2001, , 657-663.		6
76	Reynolds Stress Turbulence Modelling with Î³ Transition Model. International Journal of Computational Fluid Dynamics, 0, , 1-23.	1.2	0