

Stefano Brizzolara

List of Publications by Year in descending order

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Version: 2024-02-01

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	Primary Metabolism in Fresh Fruits During Storage. <i>Frontiers in Plant Science</i> , 2020, 11, 80.	3.6	103
2	CPP propeller cavitation and noise optimization at different pitches with panel code and validation by cavitation tunnel measurements. <i>Ocean Engineering</i> , 2012, 53, 177-195.	4.3	63
3	Metabolic Responses to Low Temperature of Three Peach Fruit Cultivars Differently Sensitive to Cold Storage. <i>Frontiers in Plant Science</i> , 2018, 9, 706.	3.6	63
4	A metabolomics approach to elucidate apple fruit responses to static and dynamic controlled atmosphere storage. <i>Postharvest Biology and Technology</i> , 2017, 127, 76-87.	6.0	49
5	Extreme Hypoxic Conditions Induce Selective Molecular Responses and Metabolic Reset in Detached Apple Fruit. <i>Frontiers in Plant Science</i> , 2016, 7, 146.	3.6	48
6	Multi-fidelity optimization of super-cavitating hydrofoils. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 332, 63-85.	6.6	37
7	Ensuring numerical stability of wave propagation by tuning model parameters using genetic algorithms and response surface methods. <i>Environmental Modelling and Software</i> , 2018, 103, 62-73.	4.5	36
8	Comparison of experimental and numerical sloshing loads in partially filled tanks. <i>Ships and Offshore Structures</i> , 2011, 6, 15-43.	1.9	34
9	EFD and CFD Characterization of a CLT Propeller. <i>International Journal of Rotating Machinery</i> , 2012, 2012, 1-22.	0.8	33
10	RANS and PANEL method for unsteady flow propeller analysis. <i>Journal of Hydrodynamics</i> , 2010, 22, 547-552.	3.2	31
11	Concept design and hydrodynamic optimization of an innovative SWATH USV by CFD methods. <i>Ocean Dynamics</i> , 2012, 62, 227-237.	2.2	30
12	Numerical investigation on the hydrodynamic performance of fast SWATHs with optimum canted struts arrangements. <i>Applied Ocean Research</i> , 2017, 63, 76-89.	4.1	25
13	Risk-Adaptive Set-Based Design and Applications to Shaping a Hydrofoil. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017, 139, .	2.9	25
14	Comparison of experimental and numerical loads on an impacting bow section. <i>Ships and Offshore Structures</i> , 2008, 3, 305-324.	1.9	21
15	Postharvest Water Loss of Wine Grape: When, What and Why. <i>Metabolites</i> , 2021, 11, 318.	2.9	21
16	Physics-Based Design by Optimization of Unconventional Supercavitating Hydrofoils. <i>Journal of Ship Research</i> , 2016, 60, 187-202.	1.1	19
17	Relevance of transition turbulent model for hydrodynamic characteristics of low Reynolds number propeller. <i>Applied Ocean Research</i> , 2019, 87, 165-178.	4.1	19
18	Supercavitating Three-Dimensional Hydrofoil Analysis by Viscous Lifting-Line Approach. <i>AIAA Journal</i> , 2017, 55, 4127-4141.	2.6	17

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19	Benchmark study of global linear wave loads on a container ship with forward speed. <i>Marine Structures</i> , 2022, 84, 103162.	3.8	17
20	SPH simulation of periodic wave breaking in the surf zone - A detailed fluid dynamic validation. <i>Ocean Engineering</i> , 2019, 176, 20-30.	4.3	16
21	Extending the applicability of RANS turbulence closures to the simulation of transitional flow around hydrofoils at low Reynolds number. <i>Ocean Engineering</i> , 2018, 164, 1-12.	4.3	14
22	The inner temperature of the olives (cv. Leccino) before processing affects the volatile profile and the composition of the oil. <i>Food Research International</i> , 2020, 129, 108861.	6.2	13
23	Short-Term Responses of Apple Fruit to Partial Reoxygenation during Extreme Hypoxic Storage Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4754-4763.	5.2	11
24	Design of contra-rotating propellers for high-speed stern thrusters. <i>Ships and Offshore Structures</i> , 2007, 2, 169-182.	1.9	10
25	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. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 942.	2.6	9
26	Nonlinear motions in head waves with a RANS and a potential code. <i>Journal of Hydrodynamics</i> , 2010, 22, 172-177.	3.2	8
27	Design and analysis of counter-rotating propellers-comparison of numerical and experimental results. <i>Journal of Hydrodynamics</i> , 2010, 22, 553-559.	3.2	8
28	Amplitude Induced Nonlinearity in Piston Mode Resonant Flow: A Fully Viscous Numerical Analysis. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2018, 140, .	1.2	8
29	Comparison of frozen and fresh apple pulp for NMR-based metabolomic analysis. <i>Food Analytical Methods</i> , 2015, 8, 2135-2140.	2.6	7
30	A multi-fidelity framework for investigating the performance of super-cavitating hydrofoils under uncertain flow conditions. , 2017, , .		7
31	Simulation of the Propulsion System Behaviour During Ship Standard Manoeuvres. , 2001, , 657-663.		6
32	Physical and Theoretical Modeling of Surface-Piercing Hydrofoils for a High-Speed Unmanned Surface Vessel. , 2012, , .		6
33	Comparative CFD Investigation on the Performance of a New Family of Super-Cavitating Hydrofoils. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012147.	0.4	6
34	A three-dimensional vortex method for the hydrodynamic solution of planing cambered dihedral surfaces. <i>Engineering Analysis With Boundary Elements</i> , 2016, 63, 15-29.	3.7	6
35	Pitch Resonance Tuning Tanks: A novel technology for more efficient wave energy harvesting. , 2018, , .		5
36	Design Method for Contra-Rotating Propellers for High-Speed Crafts: Revising the Original Lerbs Theory in a Modern Perspective. <i>International Journal of Rotating Machinery</i> , 2012, 2012, 1-18.	0.8	4

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37	Assessment of AUV Hydrodynamic Coefficients from Analytic and Semi-Empirical Methods. , 2018, , .		4
38	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
39	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
40	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
41	Comparison of experimental and numerical sloshing loads in partially filled tanks. , 2009, , 13-26.		4
42	Influence of viscous effects on numerical prediction of motions of SWATH vessels in waves. Ocean Systems Engineering, 2013, 3, 219-236.	0.5	4
43	Numerical and Experimental Analysis of a CLT Propeller Cavitation Behavior. , 2012, , .		4
44	Multi-fidelity Bayesian Optimization of SWATH Hull Forms. Journal of Ship Research, 2020, 64, 154-170.	1.1	4
45	Method for Improving Existing Maneuvering Models to Accommodate Large Drift Angles. , 2020, , .		4
46	Mathematical Framework for Hydromechanical Time-Domain Simulation of Wave Energy Converters. Mathematical Problems in Engineering, 2018, 2018, 1-15.	1.1	3
47	Effect of Inverted Bow on the Hydrodynamic Performance of Navy Combatant Hull Forms. , 2015, , .		3
48	Steering Plane Dynamics of a Small Autonomous Underwater Vehicle that Tows a Large Payload. , 2018, , .		2
49	Physiological and Biochemical Effects of Controlled and Modified Atmospheres. , 2019, , 425-441.		2
50	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
51	Metabolomic Approaches for Apple Fruit Quality Improvement. Compendium of Plant Genomes, 2021, , 311-339.	0.5	2
52	Multi-fidelity Bayesian Optimization of SWATH Hull Forms. Journal of Ship Research, 2019, , .	1.1	2
53	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
54	The second generation of autonomous surface vessels: Optimized performance for AUVs assistance at Sea. , 2015, , .		1

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55	ASV operability at sea: Size matters as much as hull form design. , 2016, , .		1
56	Autonomous Sea Surface Vehicles. , 2016, , 323-340.		1
57	Changes in volatile organic composition of olive oil extracted from cv. "Leccino"™ fruit subjected to ethylene treatments at different ripening stages. Journal of the Science of Food and Agriculture, 2021, 101, 3981-3986.	3.5	1
58	Influence of raised invar edges on sloshing impact pressures" numerical investigations. , 2011, , 3-8.		1
59	Investigation of Hull Pressure Pulses, Making Use of Two Large Scale Cavitation Test Facilities. , 2012, , .		1
60	Towards an Intelligent Energy Monitoring System for an AUV using Bayes Risk. , 2021, , , .		1
61	Validation Study of Reynolds Stress Model Coupled With Gamma Transition for UAV Propellers. , 2021, , .		1
62	2011 Best Paper Award. Ships and Offshore Structures, 2012, 7, 1-1.	1.9	0
63	Integrated simulation framework for crash back operation. , 2013, , .		0
64	Hydrodynamic Analysis of an Underwater Vehicle in Free Dive. , 2018, , .		0
65	Design of Ducted Propulsors for Towing Autonomous Underwater Vehicles. , 2018, , , .		0
66	Validation of Forced Heave Simulations on a Planing Hull. , 2021, , , .		0
67	The Impacts of Model Uncertainty on RANS CFD Simulations of a High-Speed Craft. , 2021, , , .		0
68	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
69	The Impact of Sweep Angle on Stepped Planing Hull Performance. , 2021, , , .		0
70	Offshore wind generators dynamics. , 2011, , 221-228.		0
71	A Reformulated Lifting Line Theory for Supercavitating Hydrofoil Design. , 2012, , , .		0
72	Design and Simulation of a Novel High-Speed Omnidirectional Fully-Actuated Underwater Propulsion Mechanism. , 2019, , , .		0

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73	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
74	Multiomics approaches for the improvements of postharvest systems. , 2022, , 251-276.		0
75	Assessing the Effect of Hydrodynamic Parameter Uncertainty on AUV Performance with Gaussian Processes. , 2021, , .		0
76	Reynolds Stress Turbulence Modelling with $\hat{\nu}^3$ Transition Model. International Journal of Computational Fluid Dynamics, 0, , 1-23.	1.2	0