

Sasan Tavakoli

List of Publications by Year in descending order

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42
papers

578
citations

516710

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43
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docs citations

43
times ranked

146
citing authors

#	ARTICLE	IF	CITATIONS
1	Sea level rise will change estuarine tidal energy: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 111855.	16.4	34
2	Wake waves of a planing boat: An experimental model. <i>Physics of Fluids</i> , 2022, 34, .	4.0	5
3	Ship acceleration motion under the action of a propulsion system: a combined empirical method for simulation and optimisation. <i>Journal of Marine Engineering and Technology</i> , 2021, 20, 200-215.	4.1	5
4	Effects of Vertical Motions on Roll of Planing Hulls. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	5
5	Performance Prediction of a Hard-Chine Planing Hull by Employing Different CFD Models. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 481.	2.6	15
6	Wave energy attenuation by drifting and non-drifting floating rigid plates. <i>Ocean Engineering</i> , 2021, 226, 108717.	4.3	6
7	CFD analyses on the water entry process of a freefall lifeboat. <i>Ocean Engineering</i> , 2021, 232, 109115.	4.3	26
8	Seakeeping of double-stepped planing hulls. <i>Ocean Engineering</i> , 2021, 236, 109475.	4.3	9
9	Effects of step configuration on hydrodynamic performance of one- and doubled-stepped planing flat plates: A numerical simulation. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2020, 234, 181-195.	0.5	5
10	Hydrodynamic study of heeled double-stepped planing hulls using CFD and 2D+T method. <i>Ocean Engineering</i> , 2020, 196, 106813.	4.3	21
11	Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods. <i>Ocean Engineering</i> , 2020, 217, 107959.	4.3	25
12	Hullâ€™s propeller interaction for planing boats: a numerical study. <i>Ships and Offshore Structures</i> , 2020, 1-13.	1.9	8
13	Calm-water performance of a boat with two swept steps at high-speeds: Laboratory measurements and mathematical modeling. <i>Procedia Manufacturing</i> , 2020, 42, 467-474.	1.9	10
14	Numerical analysis of shipping water impacting a step structure. <i>Ocean Engineering</i> , 2020, 209, 107517.	4.3	15
15	Numerical study on a heeled one-stepped boat moving forward in planing regime. <i>Applied Ocean Research</i> , 2020, 96, 102057.	4.1	16
16	Comparison between the Dynamic Behavior of the Non-stepped and Double-stepped Planing Hulls in Rough Water: A Numerical Study. <i>Journal of Ship Production and Design</i> , 2020, 36, 52-66.	0.4	6
17	A six-DOF theoretical model for steady turning maneuver of a planing hull. <i>Ocean Engineering</i> , 2019, 189, 106328.	4.3	17
18	Oblique-Asymmetric 2D+T Model to Compute Hydrodynamic Forces and Moments in Coupled Sway, Roll, and Yaw Motions of Planing Hulls. <i>Journal of Ship Research</i> , 2019, 63, 1-15.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Development of a 2D+T theory for performance prediction of double-stepped planing hulls in calm water. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 886-904.	0.5	8
20	Hydrodynamic study of a double-stepped planing craft through numerical simulations. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	11
21	Dynamic response of a wedge through asymmetric free fall in 2 degrees of freedom. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 229-250.	0.5	9
22	Comparison between the Dynamic Behavior of the Non-stepped and Double-stepped Planing Hulls in Rough Water: A Numerical Study. Journal of Ship Production and Design, 2019, , .	0.4	5
23	Numerical modeling of the freefall of two-dimensional wedge bodies into water surface. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	14
24	Hydroelastic analysis of water impact of flexible asymmetric wedge with an oblique speed. Meccanica, 2018, 53, 2585-2617.	2.0	27
25	A hybrid empirical analytical model for predicting the roll motion of prismatic planing hulls. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 155-175.	0.5	2
26	RANS simulation of the tip vortex flow generated around a NACA 0015 hydrofoil and examination of its hydrodynamic characteristics. Journal of Marine Engineering and Technology, 2018, 17, 106-119.	4.1	2
27	Mathematical simulation of planar motion mechanism test for planing hulls by using 2D+T theory. Ocean Engineering, 2018, 169, 651-672.	4.3	17
28	Prediction of Hydrodynamic Coefficients of Coupled Heave and Pitch Motions of Heeled Planing Boats by Asymmetric 2D+T Theory. , 2018, , .		2
29	Performance of high-speed planing hulls accelerating from rest under the action of a surface piercing propeller and an outboard engine. Applied Ocean Research, 2018, 77, 45-60.	4.1	16
30	An Oblique 2D+T Approach for Hydrodynamic Modeling of Yawed Planing Boats in Calm Water. Journal of Ship Production and Design, 2018, 34, 335-346.	0.4	12
31	Steady performance prediction of a heeled planing boat in calm water using asymmetric 2D+T model. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2017, 231, 234-257.	0.5	20
32	Running attitudes of yawed planing hulls in calm water: development of an oblique 2D+T approach. Ships and Offshore Structures, 2017, 12, 1086-1099.	1.9	14
33	A simplified method to calculate trim and resistance of a two-stepped planing hull. Ships and Offshore Structures, 2017, 12, S317-S329.	1.9	20
34	A nonlinear mathematical model for coupled heave, pitch, and roll motions of a high-speed planing hull. Journal of Engineering Mathematics, 2017, 104, 157-194.	1.2	31
35	Effects of Boundary Layer Control Method on Hydrodynamic Characteristics and Tip Vortex Creation of a Hydrofoil. Polish Maritime Research, 2017, 24, 27-39.	1.9	1
36	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20

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37	An analytical procedure for time domain simulation of roll motion of the warped planing hulls. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 600-615.	0.5	15
38	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39
39	Introducing a particular mathematical model for predicting the resistance and performance of prismatic planing hulls in calm water by means of total pressure distribution. Journal of Naval Architecture and Marine Engineering, 2015, 12, 73-94.	1.2	23
40	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls. , 2015, , .		6
41	Developing a computer program for detailed study of planing hull's spray based on Morabito's approach. Journal of Marine Science and Application, 2014, 13, 402-415.	1.7	17
42	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. Journal of Computational Engineering, 2013, 2013, 1-13.	0.8	5