

Sasan Tavakoli

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

578
citations

516710

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713466

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43
all docs

43
docs citations

43
times ranked

146
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39
2	Sea level rise will change estuarine tidal energy: A review. Renewable and Sustainable Energy Reviews, 2022, 156, 111855.	16.4	34
3	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
4	Hydroelastic analysis of water impact of flexible asymmetric wedge with an oblique speed. Meccanica, 2018, 53, 2585-2617.	2.0	27
5	CFD analyses on the water entry process of a freefall lifeboat. Ocean Engineering, 2021, 232, 109115.	4.3	26
6	Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods. Ocean Engineering, 2020, 217, 107959.	4.3	25
7	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
8	Hydrodynamic study of heeled double-stepped planing hulls using CFD and 2D+T method. Ocean Engineering, 2020, 196, 106813.	4.3	21
9	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20
10	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
11	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
12	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
13	Mathematical simulation of planar motion mechanism test for planing hulls by using 2D+T theory. Ocean Engineering, 2018, 169, 651-672.	4.3	17
14	A six-DOF theoretical model for steady turning maneuver of a planing hull. Ocean Engineering, 2019, 189, 106328.	4.3	17
15	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
16	Numerical study on a heeled one-stepped boat moving forward in planing regime. Applied Ocean Research, 2020, 96, 102057.	4.1	16
17	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
18	Numerical analysis of shipping water impacting a step structure. Ocean Engineering, 2020, 209, 107517.	4.3	15

#	ARTICLE	IF	CITATIONS
19	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
20	Running attitudes of yawed planing hulls in calm water: development of an oblique 2D+T approach. <i>Ships and Offshore Structures</i> , 2017, 12, 1086-1099.	1.9	14
21	Numerical modeling of the freefall of two-dimensional wedge bodies into water surface. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	14
22	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
23	An Oblique 2D+T Approach for Hydrodynamic Modeling of Yawed Planing Boats in Calm Water. <i>Journal of Ship Production and Design</i> , 2018, 34, 335-346.	0.4	12
24	Hydrodynamic study of a double-stepped planing craft through numerical simulations. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	11
25	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
26	Dynamic response of a wedge through asymmetric free fall in 2 degrees of freedom. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 229-250.	0.5	9
27	Seakeeping of double-stepped planing hulls. <i>Ocean Engineering</i> , 2021, 236, 109475.	4.3	9
28	Development of a 2D+T theory for performance prediction of double-stepped planing hulls in calm water. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 886-904.	0.5	8
29	Hull-propeller interaction for planing boats: a numerical study. <i>Ships and Offshore Structures</i> , 2020, , 1-13.	1.9	8
30	Wave energy attenuation by drifting and non-drifting floating rigid plates. <i>Ocean Engineering</i> , 2021, 226, 108717.	4.3	6
31	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
32	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls. , 2015, , .		6
33	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. <i>Journal of Computational Engineering</i> , 2013, 2013, 1-13.	0.8	5
34	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
35	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
36	Effects of Vertical Motions on Roll of Planing Hulls. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	5

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37	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
38	Wake waves of a planing boat: An experimental model. Physics of Fluids, 2022, 34, .	4.0	5
39	A hybrid empiricalâ€“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
40	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
41	Prediction of Hydrodynamic Coefficients of Coupled Heave and Pitch Motions of Heeled Planing Boats by Asymmetric 2D+T Theory. , 2018, , .		2
42	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