Abbas Dashtimanesh

List of Publications by Year
in descending order

54 papers	735 citations
471509 17 h-index	642732 23 g-index
54 all docs	54 docs citations
54 times ranked	207 citing authors

#	Article	IF	Citations
1	Digitalization of High Speed Craft Design and Operation Challenges and Opportunities. Procedia Computer Science, 2022, 200, 566-576.	2.0	2
2	Wake waves of a planing boat: An experimental model. Physics of Fluids, 2022, 34, .	4.0	5
3	Ship acceleration motion under the action of a propulsion system: a combined empirical method for simulation and optimisation. Journal of Marine Engineering and Technology, 2021, 20, 200-215.	4.1	5
4	Effects of Vertical Motions on Roll of Planing Hulls. Journal of Offshore Mechanics and Arctic Engineering, 2021, 143, .	1.2	5
5	Performance Prediction of a Hard-Chine Planing Hull by Employing Different CFD Models. Journal of Marine Science and Engineering, 2021, 9, 481.	2.6	15
6	CFD analyses on the water entry process of a freefall lifeboat. Ocean Engineering, 2021, 232, 109115.	4.3	26
7	Seakeeping of double-stepped planing hulls. Ocean Engineering, 2021, 236, 109475.	4.3	9
8	Effects of step configuration on hydrodynamic performance of one- and doubled-stepped planing flat plates: A numerical simulation. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2020, 234, 181-195.	0.5	5
9	Hydrodynamic study of heeled double-stepped planing hulls using CFD and 2D+T method. Ocean Engineering, 2020, 196, 106813.	4.3	21
10	Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods. Ocean Engineering, 2020, 217, 107959.	4.3	25
11	Hullâ€"propeller interaction for planing boats: a numerical study. Ships and Offshore Structures, 2020, , 1-13.	1.9	8
12	Calm-water performance of a boat with two swept steps at high-speeds: Laboratory measurements and mathematical modeling. Procedia Manufacturing, 2020, 42, 467-474.	1.9	10
13	Numerical analysis of shipping water impacting a step structure. Ocean Engineering, 2020, 209, 107517.	4.3	15
14	Numerical study on a heeled one-stepped boat moving forward in planing regime. Applied Ocean Research, 2020, 96, 102057.	4.1	16
15	HYDRODYNAMIC CHARACTERISTICS OF TUNNELED PLANING HULLS IN CALM WATER. Brodogradnja, 2020, 71, 19-38.	1.9	15
16	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, 2020, 36, 52-66.	0.4	6
17	A six-DOF theoretical model for steady turning maneuver of a planing hull. Ocean Engineering, 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. Journal of Ship Research, 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	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
21	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
22	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
23	Three-dimensional simulation of transom stern flow at various Froude numbers and trim angles. Progress in Computational Fluid Dynamics, 2018, 18, 232.	0.2	1
24	Mathematical simulation of planar motion mechanism test for planing hulls by using 2D+T theory. Ocean Engineering, 2018, 169, 651-672.	4.3	17
25	Prediction of Hydrodynamic Coefficients of Coupled Heave and Pitch Motions of Heeled Planing Boats by Asymmetric 2D+T Theory. , 2018, , .		2
26	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
27	Performance Prediction of Two-Stepped Planing Hulls Using Morphing Mesh Approach. Journal of Ship Production and Design, 2018, 34, 236-248.	0.4	24
28	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
29	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
30	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
31	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
32	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
33	Introducing a new flap form to reduce the transom waves using a 3-D numerical analysis. International Journal of Computational Science and Engineering, 2016, 12, 265.	0.5	4
34	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20
35	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
36	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39

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37	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
38	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls. , 2015, , .		6
39	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
40	Numerical simulation of water entry of different arbitrary bow sections. Journal of Naval Architecture and Marine Engineering, 2014, 11, 117-129.	1.2	22
41	A three-dimensional SPH model for detailed study of free surface deformation, just behind a rectangular planing hull. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2013, 35, 369-380.	1.6	18
42	Investigation of free surface flow generated by a planing flat plate using smoothed particle hydrodynamics method and FLOW3D simulations. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2013, 227, 125-135.	0.5	8
43	A Numerical Investigation of the Water Impact of an Arbitrary Bow Section. ISH Journal of Hydraulic Engineering, 2013, 19, 186-195.	2.1	25
44	Application of an Iterative High Order Difference Scheme Along With an Explicit System Solver for Solution of Stream Function-Vorticity Form of Navier–Stokes Equations. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	5
45	Initiating a Mathematical Model for Prediction of 6-DOF Motion of Planing Crafts in Regular Waves. International Journal of Engineering Mathematics, 2013, 2013, 1-15.	0.2	20
46	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. Journal of Computational Engineering, 2013, 2013, 1-13.	0.8	5
47	Development of a mathematical model for simultaneous heave, pitch and roll motions of planing vessel in regular waves. International Journal of Scientific World, 2013, 1, .	3.0	14
48	Developing a Computer Program for Mathematical Investigation of Stepped Planing Hull Characteristics. International Journal of Physical Research, 2013, 1, .	0.5	12
49	Study of various numerical aspects of 3D-SPH for simulation of the dam break problem. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 486-491.	1.6	5
50	Simulation of Free Surface Flow by Using SPH Method and a Comparison Study on Two Different Smoothing Functions. International Journal of Fluid Mechanics Research, 2012, 39, 261-271.	0.4	0
51	Study of water entry of circular cylinder by using analytical and numerical solutions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 225-232.	1.6	29
52	Solution of 2D Navier–Stokes equation by coupled finite difference-dual reciprocity boundary element method. Applied Mathematical Modelling, 2011, 35, 2110-2121.	4.2	9
53	ANALYTICAL SOLUTION OF WEDGE WATER ENTRY BY USING SCHWARTZ–CHRISTOFFEL CONFORMAL MAPPING. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 02, 337-354.	1.4	25
54	Solution of Poisson's equation by analytical boundary element integration. Applied Mathematics and Computation, 2010, 217, 152-163.	2.2	14