

# Abbas Dashtimanesh

## List of Publications by Year in descending order

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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	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39
2	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
3	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
4	CFD analyses on the water entry process of a freefall lifeboat. Ocean Engineering, 2021, 232, 109115.	4.3	26
5	ANALYTICAL SOLUTION OF WEDGE WATER ENTRY BY USING SCHWARTZâ€™CHRISTOFFEL CONFORMAL MAPPING. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 02, 337-354.	1.4	25
6	A Numerical Investigation of the Water Impact of an Arbitrary Bow Section. ISH Journal of Hydraulic Engineering, 2013, 19, 186-195.	2.1	25
7	Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods. Ocean Engineering, 2020, 217, 107959.	4.3	25
8	Performance Prediction of Two-Stepped Planing Hulls Using Morphing Mesh Approach. Journal of Ship Production and Design, 2018, 34, 236-248.	0.4	24
9	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
10	Numerical simulation of water entry of different arbitrary bow sections. Journal of Naval Architecture and Marine Engineering, 2014, 11, 117-129.	1.2	22
11	Hydrodynamic study of heeled double-stepped planing hulls using CFD and 2D+T method. Ocean Engineering, 2020, 196, 106813.	4.3	21
12	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
13	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20
14	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
15	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
16	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
17	Developing a computer program for detailed study of planing hullâ€™s spray based on Morabitoâ€™s approach. Journal of Marine Science and Application, 2014, 13, 402-415.	1.7	17
18	Mathematical simulation of planar motion mechanism test for planing hulls by using 2D+T theory. Ocean Engineering, 2018, 169, 651-672.	4.3	17

#	ARTICLE	IF	CITATIONS
19	A six-DOF theoretical model for steady turning maneuver of a planing hull. Ocean Engineering, 2019, 189, 106328.	4.3	17
20	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
21	Numerical study on a heeled one-stepped boat moving forward in planing regime. Applied Ocean Research, 2020, 96, 102057.	4.1	16
22	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
23	Numerical analysis of shipping water impacting a step structure. Ocean Engineering, 2020, 209, 107517.	4.3	15
24	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
25	HYDRODYNAMIC CHARACTERISTICS OF TUNNELED PLANING HULLS IN CALM WATER. Brodogradnja, 2020, 71, 19-38.	1.9	15
26	Solution of Poisson's equation by analytical boundary element integration. Applied Mathematics and Computation, 2010, 217, 152-163.	2.2	14
27	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
28	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
29	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
30	Developing a Computer Program for Mathematical Investigation of Stepped Planing Hull Characteristics. International Journal of Physical Research, 2013, 1, .	0.5	12
31	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
32	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
33	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
34	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
35	Seakeeping of double-stepped planing hulls. Ocean Engineering, 2021, 236, 109475.	4.3	9
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Hullâ€“propeller interaction for planing boats: a numerical study. Ships and Offshore Structures, 2020, , 1-13.	1.9	8
39	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
40	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls. , 2015, , .		6
41	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
42	Application of an Iterative High Order Difference Scheme Along With an Explicit System Solver for Solution of Stream Function-Vorticity Form of Navierâ€“Stokes Equations. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	5
43	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. Journal of Computational Engineering, 2013, 2013, 1-13.	0.8	5
44	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
45	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
46	Effects of Vertical Motions on Roll of Planing Hulls. Journal of Offshore Mechanics and Arctic Engineering, 2021, 143, .	1.2	5
47	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
48	Wake waves of a planing boat: An experimental model. Physics of Fluids, 2022, 34, .	4.0	5
49	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
50	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
51	Prediction of Hydrodynamic Coefficients of Coupled Heave and Pitch Motions of Heeled Planing Boats by Asymmetric 2D+T Theory. , 2018, , .		2
52	Digitalization of High Speed Craft Design and Operation Challenges and Opportunities. Procedia Computer Science, 2022, 200, 566-576.	2.0	2
53	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
54	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