## Parviz Ghadimi

## List of Publications by Year in descending order

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471509 552781 1,121 119 17 26 citations h-index g-index papers 120 120 120 516 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Numerical scrutiny of the influence of side hulls arrangement on the motion of a Trimaran vessel in regular waves through CFD analysis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	98
2	Determining Effective Thermal Conductivity of Multilayered Nonwoven Fabrics. Textile Reseach Journal, 2003, 73, 802-808.	2.2	41
3	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39
4	Computational hydrodynamic analysis of the propeller–rudder and the AZIPOD systems. Ocean Engineering, 2008, 35, 117-130.	4.3	34
5	Simulation of 2D symmetry and asymmetry wedge water entry by smoothed particle hydrodynamics method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 821-835.	1.6	31
6	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
7	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
8	Finding the best combination of numerical schemes for 2-D SPH simulation of wedge water entry for a wide range of deadrise angles. International Journal of Naval Architecture and Ocean Engineering, 2014, 6, 638-651.	2.3	27
9	Hydroelastic analysis of water impact of flexible asymmetric wedge with an oblique speed. Meccanica, 2018, 53, 2585-2617.	2.0	27
10	Determination of the Heave and Pitch Motions of a Floating Cylinder by Analytical Solution of its Diffraction Problem and Examination of the Effects of Geometric Parameters on its Dynamics in Regular Waves. International Journal of Applied Mathematical Research, 2012, $1$ , .	0.2	26
11	Aerodynamic analysis of the boundary layer region of symmetric airfoils at ground proximity. Aerospace Science and Technology, 2012, 17, 7-20.	4.8	26
12	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
13	A Numerical Investigation of the Water Impact of an Arbitrary Bow Section. ISH Journal of Hydraulic Engineering, 2013, 19, 186-195.	2.1	25
14	Numerical simulation of water entry of different arbitrary bow sections. Journal of Naval Architecture and Marine Engineering, 2014, 11, 117-129.	1.2	22
15	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
16	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20
17	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
18	Asymmetric Water Entry of Twin Wedges with Different Deadrises, Heel Angles, and Wedge Separations using Finite Element Based Finite Volume Method and VOF. Journal of Applied Fluid Mechanics, 2017, 10, 353-368.	0.2	19

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19	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
20	CFD-based optimization of a displacement trimaran hull for improving its calm water and wavy condition resistance. Applied Ocean Research, 2021, 113, 102729.	4.1	18
21	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
22	Effects of Modified Effective Length Models of the Rupture Zone on the Analysis of a Fluid Journal Bearing. Tribology Transactions, 1992, 35, 29-36.	2.0	15
23	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
24	Solution of Poisson's equation by analytical boundary element integration. Applied Mathematics and Computation, 2010, 217, 152-163.	2.2	14
25	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
26	Investigation of three-dimensionality effects of aspect ratio on water impact of 3D objects using smoothed particle hydrodynamics method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1987-1998.	1.6	14
27	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
28	Experimental and numerical analyses of wedge effects on the rooster tail and porpoising phenomenon of a high-speed planing craft in calm water. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 4637-4652.	2.1	14
29	PROBING INTO THE EFFECTS OF CAVITATION ON HYDRODYNAMIC CHARACTERISTICS OF SURFACE PIERCING PROPELLERS THROUGH NUMERICAL MODELING OF OBLIQUE WATER ENTRY OF A THIN WEDGE.  Brodogradnja, 2018, 69, 151-168.	1.9	14
30	Parametric investigation of the effects of deadrise angle and demi-hull separation on impact forces and spray characteristics of catamaran water entry. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1989-1999.	1.6	13
31	Developing a Computer Program for Mathematical Investigation of Stepped Planing Hull Characteristics. International Journal of Physical Research, 2013, 1, .	0.5	12
32	Effect of flat deck on catamaran water entry through smoothed particle hydrodynamics. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 267-280.	0.5	11
33	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
34	Global optimization of trimaran hull form to get minimum resistance by slender body method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	11
35	Numerical simulation of biodiesel spray under ultra-high injection pressure using OpenFOAM. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 737-746.	1.6	10
36	Shape optimisation of trimaran ship hull using CFD-based simulation and adjoint solver. Ships and Offshore Structures, 2022, 17, 359-373.	1.9	10

3

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37	Analysis and Observation of Cavities in a Journal Bearing Considering Flow Continuity. Tribology Transactions, 2001, 44, 88-96.	2.0	9
38	Numerical analysis of the high skew propeller of an underwater vehicle. Journal of Marine Science and Application, 2011, 10, 289-299.	1.7	9
39	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
40	Numerical investigation of the effects of chamber backpressure on HFO spray characteristics. International Journal of Automotive Technology, 2015, 16, 339-349.	1.4	9
41	A CFD study on spray characteristics of heavy fuel oil-based microalgae biodiesel blends under ultra-high injection pressures. Meccanica, 2017, 52, 153-170.	2.0	9
42	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
43	Air Permeability of Multilayer Needle Punched Nonwoven Fabrics: Experimental Method. Journal of Industrial Textiles, 2002, 32, 139-150.	2.4	8
44	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
45	Low Frequency Sound Scattering from Rough Bubbly Ocean Surface: Small Perturbation Theory Based on the Reformed Helmholtz-Kirchhoff-Fresnel Method. Journal of Low Frequency Noise Vibration and Active Control, 2015, 34, 49-72.	2.9	8
46	Three-dimensional LES modeling of induced gas motion under the influence of injection pressure and ambient density in an ultrahigh-pressure diesel injector. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 1235-1243.	1.6	8
47	Experimental and Numerical Investigation of Stepped Planing Hulls in Finding an Optimized Step Location and Analysis of Its Porpoising Phenomenon. Mathematical Problems in Engineering, 2020, 2020, 1-18.	1.1	8
48	Numerical Assessment of turbulence effect on Forces, Spray parameters, and secondary impact in wedge water entry problem using k-l $\mu$ method. Scientia Iranica, 2017, 24, 223-236.	0.4	8
49	Calculation of Solitary Wave Shoaling on Plane Beaches by Extended Boussinesq Equations. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 25-38.	3.1	7
50	A Numerical Study of Spray Characteristics in Medium Speed Engine Fueled by Different HFO/n-Butanol Blends. International Journal of Chemical Engineering, 2014, 2014, 1-13.	2.4	7
51	Numerical investigation of hydrodynamic forces acting on the non-stepped and double-stepped planing hulls during yawed steady motion. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 428-442.	0.5	7
52	Neural network-PID controller for roll fin stabilizer. Polish Maritime Research, 2010, 17, .	1.9	7
53	A more robust multiparameter conformal mapping method for geometry generation of any arbitrary ship section. Journal of Engineering Mathematics, 2014, 89, 113-136.	1.2	6
54	Acoustic simulation of scattering sound from a more realistic sea surface: consideration of two practical underwater sound sources. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 773-787.	1.6	6

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55	Adaptive viscous–inviscid interaction method for analysis of airfoils in ground effect. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1593-1607.	1.6	6
56	Experimental investigation of the effect of two steps on the performance and longitudinal stability of a mono-hull high-speed craft. Cogent Engineering, 2020, 7, 1790980.	2.2	6
57	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls., 2015, , .		6
58	Multi-objective optimization of ship hull modification based on resistance and wake field improvement: combination of adjoint solver and CAD-CFD-based approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	1.6	6
59	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
60	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
61	A Unique Finite Element Modeling of the Periodic Wave Transformation over Sloping and Barred Beaches by Beji and Nadaoka's Extended Boussinesq Equations. Scientific World Journal, The, 2013, 2013, 1-11.	2.1	5
62	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. Journal of Computational Engineering, 2013, 2013, 1-13.	0.8	5
63	Application of evolution strategy algorithm for optimization of a single-layer sound absorber. Cogent Engineering, 2014, 1, 945820.	2.2	5
64	Analysis of Ventilation Regimes of the Oblique Wedge-Shaped Surface Piercing Hydrofoil During Initial Water Entry Process. Polish Maritime Research, 2018, 25, 33-43.	1.9	5
65	Investigating the interaction of two oscillating foils in tandem arrangement, using 3D unsteady boundary element method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	5
66	Efficacy Analysis of Thickness and Camber Size of Cross Section of the Stator on Hydrodynamic Parameters in Linear Jet Propulsion System. Mathematical Problems in Engineering, 2020, 2020, 1-17.	1.1	5
67	Numerical Modeling of the Interaction of Solitary Waves and Submerged Breakwaters with Sharp Vertical Edges Using One-Dimensional Beji & Nadaoka Extended Boussinesq Equations. International Journal of Oceanography, 2013, 2013, 1-7.	0.2	4
68	Numerical Hydroacoustic Analysis of NACA Foils in Marine Applications and Comparison of Their Acoustic Behavior. ISRN Mechanical Engineering, 2013, 2013, 1-12.	0.9	4
69	Unstructured Grid Solutions for Incompressible Laminar Flow over a Circular Cylinder Using a Particular Finite Volume-Finite Element Method. Journal of Engineering (United States), 2013, 2013, 1-9.	1.0	4
70	Numerical investigation of transmission of low frequency sound through a smooth air-water interface. Journal of Marine Science and Application, 2015, 14, 334-342.	1.7	4
71	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
72	Experimental investigation of the effect of a step and wedge on the performance of a high-speed craft in calm water and statistical analysis of its seakeeping in irregular waves. AIP Advances, 2020, 10, 095206.	1.3	4

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73	Hydroelastic analysis of surface piercing hydrofoil during initial water entry phase. Scientia Iranica, 2017, .	0.4	4
74	Experimental Study of the Wedge Effects on the Performance of a Hard-chine Planing Craft in Calm Water. Scientia Iranica, 2018, .	0.4	4
75	Numerical simulation of flood waves and calculation of exerted forces on the cylindrical piers in contraction channels with different cross section profiles. Journal of Hydroinformatics, 2012, 14, 366-385.	2.4	3
76	Determining Transmission Coefficient of Propagating Solitary Wave over Trapezoidal Breakwater and Parametric Studies on Different Influential Factors. ISRN Mechanical Engineering, 2014, 2014, 1-7.	0.9	3
77	Sea surface effects on sound scattering in the Persian Gulf region based on empirical relations. Journal of Marine Science and Application, 2015, 14, 113-125.	1.7	3
78	A significant look at the effects of Persian Gulf environmental conditions on sound scattering based on small perturbation method. Journal of Marine Science and Application, 2015, 14, 413-424.	1.7	3
79	Finite difference simulation of regular wave propagation over natural beach and composite barriers by Nwogu's extended Boussinesq equations. Progress in Computational Fluid Dynamics, 2017, 17, 212.	0.2	3
80	Numerical simulation of the slamming phenomenon of a wave-piercing trimaran in the presence of irregular waves under various seagoing modes. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 1198-1211.	0.5	3
81	Experimental appraisal of hydrodynamic performance and motion of a single-stepped high-speed vessel in calm water and regular waves. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 3223-3235.	2.1	3
82	Applying boundary element method to simulate a high-skew Controllable Pitch Propeller with different hub diameters for preliminary design purposes. Cogent Engineering, 2020, 7, 1805857.	2.2	3
83	Numerical investigation of the effect of tip clearance on hydrodynamic performance of the linear jet propulsion system and vortex generation behind the rotor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2395-2407.	2.1	3
84	Multi-objective optimization of trimaran sidehull arrangement via surrogate-based approach for reducing resistance and improving the seakeeping performance. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2021, 235, 944-956.	0.5	3
85	FINITE ELEMENT MODELING OF ONE-DIMENSIONAL BOUSSINESQ EQUATIONS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 02, 207-235.	1.4	2
86	Numerical investigation of free surface elevation and celerity of solitary waves passing over submerged trapezoidal breakwaters. International Journal of Multiphysics, 2015, 9, 61-74.	0.1	2
87	Sound attenuation in air–water media with rough bubbly interface at low frequencies considering bubble resonance dispersion. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4859-4871.	1.6	2
88	Simulation of wind-generated surface waves and effects of bubbles on scattering, transmission, and attenuation of low frequency sound at the sea surface. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2467-2486.	1.6	2
89	Low-frequency sound transmission through rough bubbly air–water interface at the sea surface. Journal of Low Frequency Noise Vibration and Active Control, 2017, 36, 319-338.	2.9	2
90	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

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91	Hydroelastic analysis of a semi-submerged propeller using simultaneous solution of Reynolds-averaged Navier–Stokes equations and linear elasticity equations. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 199-211.	0.5	2
92	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
93	Probing into the Effects of Fuel Injection Pressure and Nozzle Hole Diameter on Spray Characteristics under Ultra-high Injection Pressures Using Advanced Breakup Model. Scientia Iranica, 2016, 23, 238-248.	0.4	2
94	Experimental study of the effects of Vee-shaped steps on the hydrodynamic performance of planing hulls. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2023, 237, 238-256.	0.5	2
95	A novel approach to node distribution for 2D mesh generation and its application in marine and ocean engineering. Advances in Engineering Software, 2010, 41, 1149-1159.	3.8	1
96	Simulation of Wedge Water Entry using Smoothed Particle Hydrodynamics Method. International Journal of Scientific World, 2013, $1$ , .	3.0	1
97	Sound scattering from rough bubbly ocean surface based on modified sea surface acoustic simulator and consideration of various incident angles and sub-surface bubbles' radii. Journal of Marine Science and Application, 2016, 15, 275-287.	1.7	1
98	Numerical modeling of solitary waves by 1-D Madsen and Sorensen extended Boussinesq equations. ISH Journal of Hydraulic Engineering, 2016, 22, 30-39.	2.1	1
99	Numerical modeling of underwater sound propagation in the presence of triangle obstacles at low frequency. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 695-708.	1.6	1
100	Using Taguchi method for designing wedge-shaped structures for an acoustically non-reflecting test section. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 1151-1164.	1.6	1
101	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
102	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
103	Hydroelastic analysis of surface-piercing propeller through one-way and two-way coupling approaches. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2019, 233, 844-856.	0.5	1
104	Unsteady 2D and 3D Navier-Stokes Solver with Application of Multigrid Scheme to Pressure Poisson Fractional Step on Arbitrary Unstructured Grids in Various Applications with Emphasis on Ship Motion. Mathematical Problems in Engineering, 2020, 2020, 1-28.	1.1	1
105	Unsteady simulation of marine controllable pitch propeller using boundary element method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	1
106	Transient analysis of the influence of gap size of the rotor from stator on hydrodynamic performance of the linear jet propulsion system. Ships and Offshore Structures, 2022, 17, 1087-1098.	1.9	1
107	Investigating the Response Amplitude Operator of a Heaving Pontoon under the Influence of a Submerged Trapezoidal Breakwater. Advances in Civil Engineering, 2020, 2020, 1-12.	0.7	1
108	Flow Field Analysis Around the Ship Fin Stabilizer Including Free Surface., 2009,,.		O

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109	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	O
110	Taguchi parametric analysis of the effects of electrode and magnetic actuator characteristics on Lorentz forces and heat transfer of a weak low-profile magneto-hydrodynamic blanket propulsion system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3553-3568.	2.1	0
111	Three-dimensional investigation of the effects of regular seafloor geometry on low frequency sound propagation using parabolic equations. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3821-3835.	1.6	O
112	ASSESSMENT OF FLOW INTERACTIONS BETWEEN CIRCULAR CYLINDERS AND NACA-0018 HYDROFOILS AT LOW REYNOLDS NUMBERS. Brodogradnja, 2017, 68, 103-120.	1.9	0
113	Optimization of double-layer sound absorber in a broadband frequency range using transfer matrix method and Evolution Strategies algorithm. Mechanics and Industry, 2018, 19, 101.	1.3	O
114	Utilization of Open-Source OpenFOAM Code to Examine the Hydrodynamic Characteristics of a Linear Jet Propulsion System with or without Stator in Bollard Pull Condition. International Journal of Rotating Machinery, 2020, 2020, 1-11.	0.8	0
115	Ferrofluid appendages: Ferrofluid vortex container - A numerical investigation of free surface shape and vortex flow in ferrofluids for different relative densities. Scientia Iranica, 2017, .	0.4	0
116	Simulation-based multi-objective optimization of side-hull arrangement applied to an inverted-bow trimaran ship at cruise and sprint speeds. Engineering Optimization, $0$ , $1-22$ .	2.6	0
117	Bow shape modification through multi-objective hydrodynamic optimization: Methodology comparison between CAD-based FreeForm Deformation and Mesh-based Radial Basis Function approach. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment. 0 147509022110689.	0.5	0
118	A multi-objective optimisation study of trimaran hull applying RBF-Morph technique and integrated optimisation platform at two design speeds. Ships and Offshore Structures, 0, , 1-13.	1.9	0
119	Experimental and Numerical Assessment of the Effect of Transverse, Pointed Aft, and Re-entrant Vee Steps as well as Ventilation on Hydrodynamic Performance of Mono-hull Planing Crafts in Calm Water. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 0, , .	1.3	O