

# Parviz Ghadimi

## List of Publications by Year in descending order

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119  
papers

1,121  
citations

471509

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552781

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120  
all docs

120  
docs citations

120  
times ranked

516  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
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	Hydroelastic analysis of water impact of flexible asymmetric wedge with an oblique speed. Meccanica, 2018, 53, 2585-2617.	2.0	27
29	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
30	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
31	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
32	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
33	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	0
34	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
35	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
36	Experimental Study of the Wedge Effects on the Performance of a Hard-chine Planing Craft in Calm Water. Scientia Iranica, 2018, .	0.4	4

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37	A CFD study on spray characteristics of heavy fuel oil-based microalgae biodiesel blends under ultra-high injection pressures. <i>Meccanica</i> , 2017, 52, 153-170.	2.0	9
38	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. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3553-3568.	2.1	0
39	Steady performance prediction of a heeled planing boat in calm water using asymmetric 2D+T model. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2017, 231, 234-257.	0.5	20
40	Numerical modeling of underwater sound propagation in the presence of triangle obstacles at low frequency. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 695-708.	1.6	1
41	Parametric investigation of the effects of deadrise angle and demi-hull separation on impact forces and spray characteristics of catamaran water entry. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 1989-1999.	1.6	13
42	Three-dimensional investigation of the effects of regular seafloor geometry on low frequency sound propagation using parabolic equations. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 3821-3835.	1.6	0
43	Finite difference simulation of regular wave propagation over natural beach and composite barriers by Nwogu's extended Boussinesq equations. <i>Progress in Computational Fluid Dynamics</i> , 2017, 17, 212.	0.2	3
44	Sound attenuation in air-water media with rough bubbly interface at low frequencies considering bubble resonance dispersion. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 4859-4871.	1.6	2
45	Simulation of wind-generated surface waves and effects of bubbles on scattering, transmission, and attenuation of low frequency sound at the sea surface. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 2467-2486.	1.6	2
46	A nonlinear mathematical model for coupled heave, pitch, and roll motions of a high-speed planing hull. <i>Journal of Engineering Mathematics</i> , 2017, 104, 157-194.	1.2	31
47	Using Taguchi method for designing wedge-shaped structures for an acoustically non-reflecting test section. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 1151-1164.	1.6	1
48	Effects of Boundary Layer Control Method on Hydrodynamic Characteristics and Tip Vortex Creation of a Hydrofoil. <i>Polish Maritime Research</i> , 2017, 24, 27-39.	1.9	1
49	Low-frequency sound transmission through rough bubbly air-water interface at the sea surface. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2017, 36, 319-338.	2.9	2
50	ASSESSMENT OF FLOW INTERACTIONS BETWEEN CIRCULAR CYLINDERS AND NACA-0018 HYDROFOILS AT LOW REYNOLDS NUMBERS. <i>Brodogradnja</i> , 2017, 68, 103-120.	1.9	0
51	Asymmetric Water Entry of Twin Wedges with Different Deadrisers, Heel Angles, and Wedge Separations using Finite Element Based Finite Volume Method and VOF. <i>Journal of Applied Fluid Mechanics</i> , 2017, 10, 353-368.	0.2	19
52	Hydroelastic analysis of surface piercing hydrofoil during initial water entry phase. <i>Scientia Iranica</i> , 2017, .	0.4	4
53	Numerical Assessment of turbulence effect on Forces, Spray parameters, and secondary impact in wedge water entry problem using k- $\mu$ method. <i>Scientia Iranica</i> , 2017, 24, 223-236.	0.4	8
54	Ferrofluid appendages: Ferrofluid vortex container - A numerical investigation of free surface shape and vortex flow in ferrofluids for different relative densities. <i>Scientia Iranica</i> , 2017, .	0.4	0

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55	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
56	Calm Water Performance of Hard-Chine Vessels in Semi-Planing and Planing Regimes. Polish Maritime Research, 2016, 23, 23-45.	1.9	20
57	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
58	Coupled heave and pitch motions of planing hulls at non-zero heel angle. Applied Ocean Research, 2016, 59, 286-303.	4.1	39
59	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
60	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
61	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
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	Numerical investigation of the effects of chamber backpressure on HFO spray characteristics. International Journal of Automotive Technology, 2015, 16, 339-349.	1.4	9

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73	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
74	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
75	Determination of Hydrodynamic Coefficients in Roll Motion of High-Speed Planing Hulls. , 2015, , .		6
76	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
77	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
78	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
79	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
80	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
81	Numerical simulation of water entry of different arbitrary bow sections. Journal of Naval Architecture and Marine Engineering, 2014, 11, 117-129.	1.2	22
82	Application of evolution strategy algorithm for optimization of a single-layer sound absorber. Cogent Engineering, 2014, 1, 945820.	2.2	5
83	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
84	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
85	A Numerical Investigation of the Water Impact of an Arbitrary Bow Section. ISH Journal of Hydraulic Engineering, 2013, 19, 186-195.	2.1	25
86	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
87	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
88	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
89	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
90	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

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91	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
92	Three-Dimensional Mathematical Investigation of Dynamic and Hydrostatic Pressure Distributions on Planing Hulls. Journal of Computational Engineering, 2013, 2013, 1-13.	0.8	5
93	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
94	Simulation of Wedge Water Entry using Smoothed Particle Hydrodynamics Method. International Journal of Scientific World, 2013, 1, .	3.0	1
95	Developing a Computer Program for Mathematical Investigation of Stepped Planing Hull Characteristics. International Journal of Physical Research, 2013, 1, .	0.5	12
96	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
97	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
98	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
99	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
100	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
101	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
102	Aerodynamic analysis of the boundary layer region of symmetric airfoils at ground proximity. Aerospace Science and Technology, 2012, 17, 7-20.	4.8	26
103	Numerical analysis of the high skew propeller of an underwater vehicle. Journal of Marine Science and Application, 2011, 10, 289-299.	1.7	9
104	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
105	FINITE ELEMENT MODELING OF ONE-DIMENSIONAL BOUSSINESQ EQUATIONS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 02, 207-235.	1.4	2
106	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
107	Solution of Poisson's equation by analytical boundary element integration. Applied Mathematics and Computation, 2010, 217, 152-163.	2.2	14
108	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

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109	Neural network-PID controller for roll fin stabilizer. Polish Maritime Research, 2010, 17, .	1.9	7
110	Flow Field Analysis Around the Ship Fin Stabilizer Including Free Surface. , 2009, , .		0
111	Computational hydrodynamic analysis of the propellerâ€“rudder and the AZIPOD systems. Ocean Engineering, 2008, 35, 117-130.	4.3	34
112	Determining Effective Thermal Conductivity of Multilayered Nonwoven Fabrics. Textile Reseach Journal, 2003, 73, 802-808.	2.2	41
113	Air Permeability of Multilayer Needle Punched Nonwoven Fabrics: Experimental Method. Journal of Industrial Textiles, 2002, 32, 139-150.	2.4	8
114	Analysis and Observation of Cavities in a Journal Bearing Considering Flow Continuity. Tribology Transactions, 2001, 44, 88-96.	2.0	9
115	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
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	0