

# Atilla Incecik

## List of Publications by Year in descending order

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103  
papers

2,786  
citations

186265  
28  
h-index

214800  
47  
g-index

103  
all docs

103  
docs citations

103  
times ranked

1510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Full-scale unsteady RANS CFD simulations of ship behaviour and performance in head seas due to slow steaming. Ocean Engineering, 2015, 97, 186-206.	4.3	267
2	Establishing a fully coupled CFD analysis tool for floating offshore wind turbines. Renewable Energy, 2017, 112, 280-301.	8.9	160
3	Predicting the effect of biofouling on ship resistance using CFD. Applied Ocean Research, 2017, 62, 100-118.	4.1	137
4	A semi-empirical ship operational performance prediction model for voyage optimization towards energy efficient shipping. Ocean Engineering, 2015, 110, 18-28.	4.3	110
5	Estimation of added resistance and ship speed loss in a seaway. Ocean Engineering, 2017, 141, 465-476.	4.3	89
6	A CFD model for the frictional resistance prediction of antifouling coatings. Ocean Engineering, 2014, 89, 21-31.	4.3	81
7	Full-scale unsteady RANS simulations of vertical ship motions in shallow water. Ocean Engineering, 2016, 123, 131-145.	4.3	68
8	Numerical investigation of the behaviour and performance of ships advancing through restricted shallow waters. Journal of Fluids and Structures, 2018, 76, 185-215.	3.4	63
9	Renewable energy storage and sustainable design of hybrid energy powered ships: A case study. Journal of Energy Storage, 2021, 43, 103266.	8.1	61
10	Investigating the effect of biofouling on propeller characteristics using CFD. Ocean Engineering, 2018, 159, 505-516.	4.3	59
11	Aeroelastic analysis of a floating offshore wind turbine in platform-induced surge motion using a fully coupled CFD-MBD method. Wind Energy, 2019, 22, 1-20.	4.2	57
12	Three-dimensional numerical simulation of two-degree-of-freedom VIV of a circular cylinder with varying natural frequency ratios at $Re = 500$ . Journal of Fluids and Structures, 2017, 73, 162-182.	3.4	55
13	Dynamic response of steel catenary riser using a seabed interaction under random loads. Ocean Engineering, 2013, 69, 34-43.	4.3	49
14	A numerical investigation of the squat and resistance of ships advancing through a canal using CFD. Journal of Marine Science and Technology, 2016, 21, 86-101.	2.9	48
15	Numerical studies on added resistance and motions of KVLCC2 in head seas for various ship speeds. Ocean Engineering, 2017, 140, 466-476.	4.3	44
16	Nondestructive testing of marine protective coatings using terahertz waves with stationary wavelet transform. Ocean Engineering, 2016, 111, 582-592.	4.3	41
17	The effect of spacing on the vortex-induced vibrations of two tandem flexible cylinders. Physics of Fluids, 2017, 29, .	4.0	40
18	Verification and validation of numerical modelling of DTMB 5415 roll decay. Ocean Engineering, 2018, 162, 209-223.	4.3	39

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19	An experimental study of motion behaviour with an intact and damaged Ro-Ro ship model. <i>Ocean Engineering</i> , 2004, 31, 483-512.	4.3	38
20	Numerical Modelling of Dynamic Responses of a Floating Offshore Wind Turbine Subject to Focused Waves. <i>Energies</i> , 2019, 12, 3482.	3.1	38
21	A geosim analysis of ship resistance decomposition and scale effects with the aid of CFD. <i>Applied Ocean Research</i> , 2019, 92, 101930.	4.1	36
22	Flow-induced vibrations of three and four long flexible cylinders in tandem arrangement: An experimental study. <i>Ocean Engineering</i> , 2019, 178, 170-184.	4.3	35
23	Investigation of the effects of platform motion on the aerodynamics of a floating offshore wind turbine. <i>Journal of Hydrodynamics</i> , 2016, 28, 95-101.	3.2	34
24	Hydrodynamic interactions between two ships travelling or stationary in shallow waters. <i>Ocean Engineering</i> , 2015, 108, 620-635.	4.3	33
25	Structural fatigue life prediction considering model uncertainties through a novel digital twin-driven approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114512.	6.6	33
26	Operability assessment of high speed passenger ships based on human comfort criteria. <i>Ocean Engineering</i> , 2014, 89, 32-52.	4.3	31
27	Phase change material heat storage performance in the solar thermal storage structure employing experimental evaluation. <i>Journal of Energy Storage</i> , 2022, 46, 103638.	8.1	31
28	Global wave loads on a damaged ship. <i>Ships and Offshore Structures</i> , 2012, 7, 237-268.	1.9	30
29	The effects of wind-induced inclination on the dynamics of semi-submersible floating wind turbines in the time domain. <i>Renewable Energy</i> , 2016, 88, 83-94.	8.9	30
30	An investigation of the effects of wind-induced inclination on floating wind turbine dynamics: heave plate excursion. <i>Ocean Engineering</i> , 2014, 91, 208-217.	4.3	28
31	Practical added resistance diagrams to predict fouling impact on ship performance. <i>Ocean Engineering</i> , 2019, 186, 106112.	4.3	28
32	Neural network-based hybrid signal processing approach for resolving thin marine protective coating by terahertz pulsed imaging. <i>Ocean Engineering</i> , 2019, 173, 58-67.	4.3	28
33	Large-amplitude motion responses of a Ro-Ro ship to regular oblique waves in intact and damaged conditions. <i>Journal of Marine Science and Technology</i> , 2002, 7, 91-99.	2.9	26
34	A collision avoidance approach via negotiation protocol for a swarm of USVs. <i>Ocean Engineering</i> , 2021, 224, 108713.	4.3	26
35	Hydrodynamic characteristics of a hybrid oscillating water column-oscillating buoy wave energy converter integrated into a I€-type floating breakwater. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112299.	16.4	25
36	A new radiation condition for ships travelling with very low forward speed. <i>Ocean Engineering</i> , 2014, 88, 298-309.	4.3	24

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37	Side wall effects on ship model testing in a towing tank. <i>Ocean Engineering</i> , 2018, 147, 447-457.	4.3	24
38	Wind and wave energy resources assessment around the Yangtze River Delta. <i>Ocean Engineering</i> , 2019, 182, 75-89.	4.3	24
39	Ensemble learning for remaining fatigue life prediction of structures with stochastic parameters: A data-driven approach. <i>Applied Mathematical Modelling</i> , 2022, 101, 420-431.	4.2	24
40	Verification of a new radiation condition for two ships advancing in waves. <i>Applied Ocean Research</i> , 2014, 48, 186-201.	4.1	23
41	Theoretical and numerical estimation of ship-to-ship hydrodynamic interaction effects. <i>Ocean Engineering</i> , 2016, 121, 239-253.	4.3	23
42	Performance characteristics and parametric analysis of a novel multi-purpose platform combining a moonpool-type floating breakwater and an array of wave energy converters. <i>Applied Energy</i> , 2021, 292, 116888.	10.1	23
43	Steady hydrodynamic interaction between human swimmers. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180768.	3.4	22
44	Numerical studies on non-linearity of added resistance and ship motions of KVLCC2 in short and long waves. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2019, 11, 143-153.	2.3	22
45	Application of eddy-viscosity turbulence models to problems in ship hydrodynamics. <i>Ships and Offshore Structures</i> , 2020, 15, 511-534.	1.9	22
46	Wave-riding and wave-passing by ducklings in formation swimming. <i>Journal of Fluid Mechanics</i> , 2021, 928, .	3.4	22
47	Defect feature extraction of marine protective coatings by terahertz pulsed imaging. <i>Ocean Engineering</i> , 2018, 155, 382-391.	4.3	21
48	Scale effects and full-scale ship hydrodynamics: A review. <i>Ocean Engineering</i> , 2022, 245, 110496.	4.3	21
49	Ship-to-Ship Interaction During Overtaking Operation in Shallow Water. <i>Journal of Ship Research</i> , 2015, 59, 172-187.	1.1	20
50	Assessing the Impact of a Slow Steaming Approach on Reducing the Fuel Consumption of a Containership Advancing in Head Seas. <i>Transportation Research Procedia</i> , 2016, 14, 1659-1668.	1.5	20
51	Dynamic mooring simulation with Code_Aster with application to a floating wind turbine. <i>Ocean Engineering</i> , 2018, 151, 366-377.	4.3	20
52	Experimental analysis of the squat of ships advancing through the New Suez Canal. <i>Ocean Engineering</i> , 2019, 178, 331-344.	4.3	20
53	A numerical performance analysis of a ducted, high-solidity tidal turbine. <i>Renewable Energy</i> , 2020, 159, 663-682.	8.9	19
54	Prediction of the aerodynamic behaviour of a full-scale naval ship in head waves using Detached Eddy Simulation. <i>Ocean Engineering</i> , 2021, 222, 108583.	4.3	18

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55	Unsteady RANS CFD simulations of ship manoeuvrability and course keeping control under various wave height conditions. <i>Applied Ocean Research</i> , 2021, 117, 102940.	4.1	18
56	Exploring inflow wind condition on floating offshore wind turbine aerodynamic characterisation and platform motion prediction using blade resolved CFD simulation. <i>Renewable Energy</i> , 2022, 182, 1060-1079.	8.9	18
57	An experimental study of global loads acting on an intact and damaged RoRo ship model. <i>Ocean Engineering</i> , 2005, 32, 1370-1403.	4.3	17
58	Trenching effects on structural safety assessment of integrated riser/semisubmersible in cohesive soil. <i>Engineering Structures</i> , 2014, 77, 57-64.	5.3	17
59	Manoeuvring prediction based on CFD generated derivatives. <i>Journal of Hydrodynamics</i> , 2016, 28, 284-292.	3.2	17
60	Broken lines path following algorithm for a water-jet propulsion USV with disturbance uncertainties. <i>Ocean Engineering</i> , 2020, 201, 107118.	4.3	17
61	An investigation into fishing boat optimisation using a hybrid algorithm. <i>Ocean Engineering</i> , 2018, 167, 204-220.	4.3	16
62	Experimental investigation on the effect of heterogeneous hull roughness on ship resistance. <i>Ocean Engineering</i> , 2021, 223, 108590.	4.3	16
63	Dynamic modelling of Spar-Buoy oscillating water column wave energy converter. <i>Ships and Offshore Structures</i> , 2015, 10, 601-608.	1.9	15
64	Wave loading fatigue reliability and uncertainty analyses for geotechnical pipeline models. <i>Ships and Offshore Structures</i> , 2014, 9, 450-463.	1.9	14
65	Numerical and experimental study on hydrodynamic performance of ships advancing through different canals. <i>Ocean Engineering</i> , 2020, 195, 106696.	4.3	14
66	Response analysis of a truss spar in the frequency domain. <i>Journal of Marine Science and Technology</i> , 2004, 8, 126-137.	2.9	12
67	Bilge keel design for the traditional fishing boats of Indonesia's East Java. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2019, 11, 380-395.	2.3	12
68	Exploring the effects of speed and scale on a ship's form factor using CFD. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2021, 13, 147-162.	2.3	11
69	A numerical assessment of the scale effects of a ship advancing through restricted waters. <i>Ocean Engineering</i> , 2021, 229, 108972.	4.3	11
70	Hydrodynamic analysis of ship manoeuvrability in shallow water using high-fidelity URANS computations. <i>Applied Ocean Research</i> , 2022, 123, 103176.	4.1	11
71	Coupled CFD-MBD numerical modeling of a mechanically coupled WEC array. <i>Ocean Engineering</i> , 2022, 256, 111541.	4.3	11
72	Flow Field Perception of a Moving Carrier Based on an Artificial Lateral Line System. <i>Sensors</i> , 2020, 20, 1512.	3.8	10

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73	Ship-to-Ship Interaction during Overtaking Operation in Shallow Water. Journal of Ship Research, 2015, 59, 172-187.	1.1	10
74	Comparative study on steady wave-making problem using viscous and potential-flow methods. Ocean Engineering, 2018, 154, 143-152.	4.3	9
75	Investigating the Effect of Heterogeneous Hull Roughness on Ship Resistance Using CFD. Journal of Marine Science and Engineering, 2021, 9, 202.	2.6	9
76	A numerical structural analysis of ducted, high-solidity, fibre-composite tidal turbine rotor configurations in real flow conditions. Ocean Engineering, 2021, 233, 109087.	4.3	9
77	Design and optimization of a water jet-based biomimetic antifouling model for marine structures. Physics of Fluids, 2020, 32, .	4.0	8
78	Analysis of wind load effect on key components in a jack-up offshore platform. Applied Ocean Research, 2020, 101, 102263.	4.1	8
79	A high-fidelity CFD-based model for the prediction of ship manoeuvrability in currents. Ocean Engineering, 2022, 256, 111492.	4.3	8
80	A posteriori error and uncertainty estimation in computational ship hydrodynamics. Ocean Engineering, 2020, 208, 107434.	4.3	7
81	Modelling the hydrodynamic effect of abrupt water depth changes on a ship travelling in restricted waters using CFD. Ships and Offshore Structures, 2021, 16, 1087-1103.	1.9	7
82	Precisely modeling offshore jacket structures considering model parameters uncertainty using Bayesian updating. Ocean Engineering, 2022, 258, 111410.	4.3	7
83	A numerical performance analysis of a ducted, high-solidity tidal turbine in yawed flow conditions. Renewable Energy, 2022, 193, 179-194.	8.9	6
84	Three-dimensional simulation of wind tunnel diffuser to study the effects of different divergence angles on speed uniform distribution, pressure in outlet, and eddy flows formation in the corners. Physics of Fluids, 2020, 32, .	4.0	5
85	Virtual Replica of a Towing Tank Experiment to Determine the Kelvin Half-Angle of a Ship in Restricted Water. Journal of Marine Science and Engineering, 2020, 8, 258.	2.6	4
86	Tensor Properties of Added-mass and Damping Coefficients. Journal of Engineering Mathematics, 2005, 52, 379-387.	1.2	3
87	Discrete-vortex analysis of high Reynolds number flow past a rotating cylinder. AIP Advances, 2020, 10, .	1.3	3
88	A Numerical Swallowing-Capacity Analysis of a Vacant, Cylindrical, Bi-Directional Tidal Turbine Duct in Aligned & Yawed Flow Conditions. Journal of Marine Science and Engineering, 2021, 9, 182.	2.6	3
89	A Methodology for Rapid Selection of a Seaworthy Vessel for Offshore Wind Turbine Construction, Operation and Maintenance. , 2012, , .		3
90	Wave Slamming on An OWSC Wave Energy Converter in Coupled Wave-Current Conditions with Variable-Depth Seabed. China Ocean Engineering, 2021, 35, 646-661.	1.6	3

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91	Damping Potential, Generalized Potential, and D'Alembert's Principle. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2021, 45, 311-319.	1.3	2
92	A Study on Reproduction of Ship Motions in Offshore Refugée Outside Harbour using Observed Waves. Proceedings of Coastal Engineering Jsce, 2007, 54, 1321-1325.	0.1	1
93	A Coupled CFD/Multibody Dynamics Analysis Tool for Offshore Wind Turbines With Aeroelastic Blades. , 2017, , .		1
94	Significance of seabed interaction on fatigue assessment of steel catenary risers in the touchdown zone. Structural Engineering and Mechanics, 2016, 57, 403-423.	1.0	1
95	Measuring Liquid Droplet Size in Two-Phase Nozzle Flow Employing Numerical and Experimental Analyses. Micromachines, 2022, 13, 684.	2.9	1
96	Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions's responses in waves. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 0, , 095765092210984.	1.4	1
97	An Approximate Model for the First- and Second-Order Dynamic Response Analysis of Truss Spar Platforms. , 2006, , 443.		0
98	BASIC STUDY ON SHIP STRENGTH FROM THE VIEWPOINT OF CASUALTIES IN COASTAL ZONE UNDER SEVERE WEATHER. Proceedings of Civil Engineering in the Ocean, 2008, 24, 987-992.	0.0	0
99	Analysing Fibre Composite Designs for High-Solidity Ducted Tidal Turbine Blades. , 2019, , .		0
100	Transient uniformity model predictive control in dealing with non-uniformity of multivariable systems. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2020, 234, 3-14.	0.5	0
101	Basic Research on Parameters to Reproduce Anchored Ship Motions during Offshore Refugée of Harbour. The Journal of Japan Institute of Navigation, 2010, 123, 143-151.	0.1	0
102	Comparative study of offshore spar-buoy oscillating water column dynamic models for captured power estimation. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0, , 147509022110677.	0.5	0
103	Numerical investigation of depth-varying currents on ship hydrodynamics in confined water. International Journal of Naval Architecture and Ocean Engineering, 2022, , 100461.	2.3	0