

# Riccardo Broglia

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

1,443  
citations

257450

24  
h-index

345221

36  
g-index

71  
all docs

71  
docs citations

71  
times ranked

580  
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamics of the tip and hub vortices shed by a propeller: Eulerian and Lagrangian approaches. Computers and Fluids, 2022, 236, 105313.	2.5	24
2	Development of the wake shed by a system composed of a propeller and a rudder at incidence. International Journal of Heat and Fluid Flow, 2022, 94, 108919.	2.4	21
3	Recovery in the wake of in-line axial-flow rotors. Physics of Fluids, 2022, 34, .	4.0	17
4	Influence of an upstream hydrofoil on the acoustic signature of a propeller. Physics of Fluids, 2022, 34, .	4.0	20
5	Mitigation of rotor thrust fluctuations through passive pitch. Journal of Fluids and Structures, 2022, 112, 103599.	3.4	3
6	Acoustic signature of a propeller operating upstream of a hydrofoil. Physics of Fluids, 2022, 34, .	4.0	17
7	Near wake of a propeller across a hydrofoil at incidence. Physics of Fluids, 2022, 34, .	4.0	21
8	Characterization of the turbulent wake of an axial-flow hydrokinetic turbine via large-eddy simulation. Computers and Fluids, 2021, 216, 104815.	2.5	18
9	The wake flow downstream of a propeller-rudder system. International Journal of Heat and Fluid Flow, 2021, 87, 108765.	2.4	29
10	Design of a Double Ended Ferry. , 2021, , 373-426.		0
11	A Generalized Hybrid RANSE/BEM Approach for the Analysis of Hull-Propeller Interaction in Off-Design Conditions. Journal of Marine Science and Engineering, 2021, 9, 482.	2.6	2
12	Momentum recovery downstream of an axial-flow hydrokinetic turbine. Renewable Energy, 2021, 170, 1275-1291.	8.9	12
13	Instability of the tip vortices shed by an axial-flow turbine in uniform flow. Journal of Fluid Mechanics, 2021, 920, .	3.4	26
14	Flow over a hydrofoil at incidence immersed within the wake of a propeller. Physics of Fluids, 2021, 33, .	4.0	25
15	Accurate experimental benchmark study of a catamaran in regular and irregular head waves including uncertainty quantification. Ocean Engineering, 2020, 195, 106685.	4.3	12
16	Flow over a hydrofoil in the wake of a propeller. Computers and Fluids, 2020, 213, 104714.	2.5	29
17	The wake structure of a propeller operating upstream of a hydrofoil. Journal of Fluid Mechanics, 2020, 904, .	3.4	43
18	Analysis of vortices shed by a notional submarine model in steady drift and pitch advancement. Ocean Engineering, 2020, 218, 108236.	4.3	8

#	ARTICLE	IF	CITATIONS
19	Uncertainty Quantification of Ship Resistance via Multi-Index Stochastic Collocation and Radial Basis Function Surrogates: A Comparison. , 2020, , .		6
20	LES study of the wake features of a propeller in presence of an upstream rudder. Computers and Fluids, 2019, 192, 104247.	2.5	33
21	An immersed boundary method coupled with a dynamic overlapping-grids strategy. Computers and Fluids, 2019, 191, 104250.	2.5	9
22	Characterization of the wake of a submarine propeller via Large-Eddy simulation. Computers and Fluids, 2019, 184, 138-152.	2.5	84
23	Flow separation prevention around a NACA0012 profile through multivariable feedback controlled plasma actuators. Computers and Fluids, 2019, 182, 85-107.	2.5	6
24	Assessment of Computational Fluid Dynamics Capabilities for the Prediction of Three-Dimensional Separated Flows: The DELFT 372 Catamaran in Static Drift Conditions. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	11
25	Robust Feedback Control of Two and Three Dimensional Flow Separation Around a NACA0012 Profile Using Plasma Actuators. ERCOFTAC Series, 2019, , 389-395.	0.1	1
26	Hydrodynamic Tools in Ship Design. , 2019, , 139-207.		0
27	Modeling ship-induced waves in shallow water systems: The Venice experiment. Ocean Engineering, 2018, 155, 227-239.	4.3	26
28	Resistance and Payload Optimization of a Sea Vehicle by Adaptive Multi-Fidelity Metamodeling. , 2018, , .		10
29	Accurate prediction of complex free surface flow around a high speed craft using a single-phase level set method. Computational Mechanics, 2018, 62, 421-437.	4.0	32
30	A Residual Theorem Approach Applied to Stokesâ€™ Problems with Generally Periodic Boundary Conditions including a Pressure Gradient Term. Mathematical Problems in Engineering, 2018, 2018, 1-16.	1.1	0
31	Statistical Assessment and Validation of Experimental and Computational Ship Response in Irregular Waves. Journal of Verification, Validation and Uncertainty Quantification, 2018, 3, .	0.4	6
32	Development and Assessment of Uncertainty Quantification Methods for Ship Hydrodynamics. , 2017, , .		5
33	Validation of Uncertainty Quantification Methods for High-Fidelity CFD of Ship Response in Irregular Waves. , 2017, , .		5
34	Robust control of flow separation over a pitching aerofoil using plasma actuators. IFAC-PapersOnLine, 2017, 50, 11120-11125.	0.9	4
35	CFD analysis of turning abilities of a submarine model. Ocean Engineering, 2017, 129, 459-479.	4.3	50
36	Hydrogeological effects of dredging navigable canals through lagoon shallows. A case study in Venice. Hydrology and Earth System Sciences, 2017, 21, 5627-5646.	4.9	19

#	ARTICLE	IF	CITATIONS
37	Turning ability analysis of a fully appended twin screw vessel by CFD. Part II: Single vs. twin rudder configuration. <i>Ocean Engineering</i> , 2016, 117, 259-271.	4.3	45
38	Hydrodynamic Characterization of USV Vessels with Innovative SWATH Configuration for Coastal Monitoring and Low Environmental Impact. <i>Transportation Research Procedia</i> , 2016, 14, 1562-1570.	1.5	12
39	Method for estimating parameters of practical ship manoeuvring models based on the combination of RANSE computations and System Identification. <i>Applied Ocean Research</i> , 2015, 52, 274-294.	4.1	23
40	Application of dynamic overlapping grids to the simulation of the flow around a fully-appended submarine. <i>Mathematics and Computers in Simulation</i> , 2015, 116, 75-88.	4.4	21
41	Turning ability analysis of a fully appended twin screw vessel by CFD. Part I: Single rudder configuration. <i>Ocean Engineering</i> , 2015, 105, 275-286.	4.3	51
42	Validation of High-Fidelity Uncertainty Quantification of a High-speed Catamaran in Irregular Waves. , 2015, , .		0
43	CFD Validation for DELFT 372 Catamaran in Static Drift Conditions, Including Onset and Progression Analysis. , 2015, , .		2
44	Enabling hydrodynamics solver for efficient parallel simulations. , 2014, , .		12
45	SPIV measurements around the DELFT 372 catamaran in steady drift. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	26
46	A study on the effect of the cushion pressure on a planing surface. <i>Ocean Engineering</i> , 2014, 91, 122-132.	4.3	0
47	Experimental investigation of interference effects for high-speed catamarans. <i>Ocean Engineering</i> , 2014, 76, 75-85.	4.3	38
48	Numerical investigation of the components of calm-water resistance of a surface-effect ship. <i>Ocean Engineering</i> , 2013, 72, 375-385.	4.3	9
49	Experimental investigation of a fast catamaran in head waves. <i>Ocean Engineering</i> , 2013, 72, 318-330.	4.3	29
50	Simulation of turning circle by CFD: Analysis of different propeller models and their effect on manoeuvring prediction. <i>Applied Ocean Research</i> , 2013, 39, 1-10.	4.1	90
51	Analytical solutions of one-dimensional Stokes' problems for infinite and finite domains with generally periodic boundary conditions. , 2012, , .		0
52	Nonlinear wave resistance of a two-dimensional pressure patch moving on a free surface. <i>Ocean Engineering</i> , 2012, 39, 62-71.	4.3	8
53	Analysis of the interference effects for high-speed catamarans by model tests and numerical simulations. <i>Ocean Engineering</i> , 2011, 38, 2110-2122.	4.3	40
54	Numerical simulation of interference effects for a high-speed catamaran. <i>Journal of Marine Science and Technology</i> , 2011, 16, 254-269.	2.9	31

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55	Experience from SIMMAN 2008â€”The First Workshop on Verification and Validation of Ship Maneuvering Simulation Methods. Journal of Ship Research, 2011, 55, 135-147.	1.1	99
56	Numerical and experimental analysis of the flow field around a surface combatant ship. , 2011, , 87-94.		0
57	Experimental and numerical investigations on fast catamarans interference effects. Journal of Hydrodynamics, 2010, 22, 528-533.	3.2	15
58	Prediction of hydrodynamic coefficients of ship hulls by high-order Godunov-type methods. Journal of Marine Science and Technology, 2009, 14, 19-29.	2.9	50
59	Analysis of the Roll Decay Motion for a Patrol Boat by URANS Simulations. , 2009, , .		1
60	Calm-Water Resistance Prediction of a Surface-Effect Ship. , 2009, , .		2
61	Analysis of the Flow Around a Manoeuvring VLCC. , 2008, , .		1
62	Numerical Simulation of the Flow around an Array of Free-Surface Piercing Cylinders in Waves. Ship Technology Research, 2007, 54, 42-52.	2.5	1
63	Vortex Suppression Efficiency of Discontinuous Helicoidal Fins. , 2007, , 813.		5
64	On the application of the single-phase level set method to naval hydrodynamic flows. Computers and Fluids, 2007, 36, 868-886.	2.5	87
65	Numerical Simulation of the Flow Around an Array of Free-Surface Piercing Cylinders in Waves. , 2007, , .		0
66	Numerical Investigation of the Unsteady Flow at High Reynolds Number Over a Marine Riser With Helical Strakes. , 2006, , 587.		2
67	Numerical Simulation of the Flow Around Free-Surface Piercing Bodies in Waves by an Overlapping Grids Approach. , 2006, , .		0
68	Large-eddy simulations of ducts with a free surface. Journal of Fluid Mechanics, 2003, 484, 223-253.	3.4	42
69	A Second Order Godunov-Type Scheme for Naval Hydrodynamics. , 2001, , 253-261.		17
70	MULTIGRID ACCELERATION OF SECOND-ORDER ENO SCHEMES FROM LOW SUBSONIC TO HIGH SUPERSONIC FLOWS. International Journal for Numerical Methods in Fluids, 1996, 23, 589-606.	1.6	46
71	Comparing multi-index stochastic collocation and multi-fidelity stochastic radial basis functions for forward uncertainty quantification of ship resistance. Engineering With Computers, 0, , 1.	6.1	4