

# Andrea Di Mascio

## List of Publications by Year in descending order

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79  
papers

2,100  
citations

201385

27  
h-index

253896

43  
g-index

79  
all docs

79  
docs citations

79  
times ranked

884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of vortex dynamics in the wake of a marine propeller. Computers and Fluids, 2013, 73, 65-79.	1.3	129
2	On the wake dynamics of a propeller operating in drift. Journal of Fluid Mechanics, 2014, 754, 263-307.	1.4	97
3	Simulation of turning circle by CFD: Analysis of different propeller models and their effect on manoeuvring prediction. Applied Ocean Research, 2013, 39, 1-10.	1.8	90
4	Ship underwater noise assessment by the acoustic analogy. Part I: nonlinear analysis of a marine propeller in a uniform flow. Journal of Marine Science and Technology, 2013, 18, 547-570.	1.3	89
5	On the application of the single-phase level set method to naval hydrodynamic flows. Computers and Fluids, 2007, 36, 868-886.	1.3	87
6	Prediction of energy losses in water impacts using incompressible and weakly compressible models. Journal of Fluids and Structures, 2015, 54, 802-822.	1.5	82
7	Analysis of the performances of a marine propeller operating in oblique flow. Computers and Fluids, 2013, 75, 86-102.	1.3	80
8	Coupling of Smoothed Particle Hydrodynamics with Finite Volume method for free-surface flows. Journal of Computational Physics, 2016, 310, 161-180.	1.9	69
9	Analysis of propeller bearing loads by CFD. Part I: Straight ahead and steady turning maneuvers. Ocean Engineering, 2017, 130, 241-259.	1.9	69
10	Analysis of a marine propeller operating in oblique flow. Part 2: Very high incidence angles. Computers and Fluids, 2014, 92, 56-81.	1.3	63
11	Analysis of the flow field around a rudder in the wake of a simplified marine propeller. Journal of Fluid Mechanics, 2017, 814, 547-569.	1.4	63
12	Smoothed particle hydrodynamics method from a large eddy simulation perspective. Physics of Fluids, 2017, 29, .	1.6	58
13	Ship underwater noise assessment by the Acoustic Analogy part II: hydroacoustic analysis of a ship scaled model. Journal of Marine Science and Technology, 2014, 19, 52-74.	1.3	54
14	Turning ability analysis of a fully appended twin screw vessel by CFD. Part I: Single rudder configuration. Ocean Engineering, 2015, 105, 275-286.	1.9	51
15	Prediction of hydrodynamic coefficients of ship hulls by high-order Godunov-type methods. Journal of Marine Science and Technology, 2009, 14, 19-29.	1.3	50
16	A level set technique applied to unsteady free surface flows. International Journal for Numerical Methods in Fluids, 2001, 35, 281-297.	0.9	47
17	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.	0.9	46
18	Turning ability analysis of a fully appended twin screw vessel by CFD. Part II: Single vs. twin rudder configuration. Ocean Engineering, 2016, 117, 259-271.	1.9	45

#	ARTICLE	IF	CITATIONS
19	Smoothed particle hydrodynamics method from a large eddy simulation perspective. Generalization to a quasi-Lagrangian model. <i>Physics of Fluids</i> , 2021, 33, .	1.6	43
20	Modal analysis of the wake past a marine propeller. <i>Journal of Fluid Mechanics</i> , 2018, 855, 469-502.	1.4	42
21	Analysis of the interference effects for high-speed catamarans by model tests and numerical simulations. <i>Ocean Engineering</i> , 2011, 38, 2110-2122.	1.9	40
22	Coupled SPH-FV method with net vorticity and mass transfer. <i>Journal of Computational Physics</i> , 2018, 364, 111-136.	1.9	40
23	Viscous-inviscid coupling in free surface ship flows. <i>International Journal for Numerical Methods in Fluids</i> , 1995, 21, 699-722.	0.9	36
24	Analysis of the asymmetric behavior of propeller-rudder system of twin screw ships by CFD. <i>Ocean Engineering</i> , 2017, 143, 269-281.	1.9	36
25	Analysis of propeller bearing loads by CFD. Part II: Transient maneuvers. <i>Ocean Engineering</i> , 2017, 146, 217-233.	1.9	32
26	Numerical simulation of interference effects for a high-speed catamaran. <i>Journal of Marine Science and Technology</i> , 2011, 16, 254-269.	1.3	31
27	Analysis of free-surface flows through energy considerations: Single-phase versus two-phase modeling. <i>Physical Review E</i> , 2016, 93, 053113.	0.8	29
28	A self-adaptive oriented particles Level-Set method for tracking interfaces. <i>Journal of Computational Physics</i> , 2010, 229, 1353-1380.	1.9	27
29	Analysis of the Flow Past a Fully Appended Hull with Propellers by Computational and Experimental Fluid Dynamics. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, .	0.8	22
30	The Problem With Oscillatory Behavior in Grid Convergence Studies. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 438-439.	0.8	22
31	Marine propellers performance and flow-field prediction by a free-wake panel method. <i>Journal of Hydrodynamics</i> , 2014, 26, 780-795.	1.3	21
32	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.	2.4	21
33	Experimental and Numerical Investigation of Propeller Loads in Off-Design Conditions. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 45.	1.2	21
34	CFD analysis of the sensitivity of propeller bearing loads to stern appendages and propulsive configurations. <i>Applied Ocean Research</i> , 2017, 69, 205-219.	1.8	20
35	Simulation of high pressure, direct injection processes of gaseous fuels by a density-based OpenFOAM solver. <i>Physics of Fluids</i> , 2021, 33, .	1.6	20
36	Local mass non-equilibrium dynamics in multi-layered porous media: application to the drug-eluting stent. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 844-854.	2.5	18

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37	A Second Order Godunov-Type Scheme for Naval Hydrodynamics. , 2001, , 253-261.		17
38	Breaking wave at the bow of a fast displacement ship model. Journal of Marine Science and Technology, 2003, 8, 68-75.	1.3	17
39	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	0.5	16
40	Assessment of blockage effects in wind tunnel testing of wind turbines. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 154, 1-9.	1.7	16
41	SPH-FV coupling algorithm for solving multi-scale three-dimensional free-surface flows. Applied Ocean Research, 2021, 115, 102846.	1.8	16
42	Experimental and numerical investigations on fast catamarans interference effects. Journal of Hydrodynamics, 2010, 22, 528-533.	1.3	15
43	RANS simulations of a junction flow. International Journal of Computational Fluid Dynamics, 2005, 19, 179-189.	0.5	14
44	Numerical analysis of marine propellers low frequency noise during maneuvering. Applied Ocean Research, 2021, 106, 102461.	1.8	14
45	A two-step godunov-type scheme for the euler equations. Meccanica, 1991, 26, 179-188.	1.2	13
46	Truncation Error Analysis in Turbulent Boundary Layers. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 657-663.	0.8	13
47	Numerical modeling of breaking waves generated by a ship's hull. Journal of Marine Science and Technology, 2004, 9, 158-170.	1.3	12
48	Chorin's approaches revisited: Vortex Particle Method vs Finite Volume Method. Engineering Analysis With Boundary Elements, 2019, 106, 371-388.	2.0	12
49	Large-Eddy Simulation of Vortex Shedding and Pressure Oscillations in Solid Rocket Motors. AIAA Journal, 2020, 58, 5191-5201.	1.5	11
50	Cartesian Mesh Generation with Local Refinement for Immersed Boundary Approaches. Journal of Marine Science and Engineering, 2021, 9, 572.	1.2	11
51	Ship underwater noise assessment by the acoustic analogy, part III: measurements versus numerical predictions on a full-scale ship. Journal of Marine Science and Technology, 2014, 19, 125.	1.3	10
52	Investigation of Twin-Screw Naval Ships Maneuverability Behavior. Journal of Ship Research, 2011, 55, 221-248.	0.5	10
53	Numerical investigation of the components of calm-water resistance of a surface-effect ship. Ocean Engineering, 2013, 72, 375-385.	1.9	9
54	Investigation and modelling of the turbulent wall pressure fluctuations on the bulbous bow of a ship. Journal of Fluids and Structures, 2016, 67, 219-240.	1.5	9

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55	Nonlinear wave resistance of a two-dimensional pressure patch moving on a free surface. Ocean Engineering, 2012, 39, 62-71.	1.9	8
56	ECN Spray G: Coupled Eulerian internal nozzle flow and Lagrangian spray simulation in flash boiling conditions. International Journal of Engine Research, 2023, 24, 1530-1544.	1.4	8
57	A Model for the Simulation of Steady Spilling Breaking Waves. Journal of Ship Research, 2003, 47, 13-23.	0.5	7
58	On the NDP onset in pre-ignition transient of high performance SRMs: VEGA Z9A experience. , 2011, , .		6
59	The Role of Mesh Generation, Adaptation, and Refinement on the Computation of Flows Featuring Strong Shocks. Modelling and Simulation in Engineering, 2012, 2012, 1-15.	0.4	6
60	A local model for the simulation of two-dimensional spilling breaking waves. Journal of Marine Science and Technology, 2003, 8, 61-67.	1.3	5
61	Vortex Suppression Efficiency of Discontinuous Helicoidal Fins. , 2007, , 813.		5
62	Numerical analysis of marine propellers low frequency noise during maneuvering. Part II: Passive and active noise control strategies. Applied Ocean Research, 2022, 125, 103201.	1.8	5
63	Evaluation of Noise Excess for Pushing Propeller Aircraft by CFD Aeroacoustic Calculation. , 2004, , .		4
64	An immersed boundary approach for high order weighted essentially non-oscillatory schemes. Computers and Fluids, 2021, 222, 104931.	1.3	4
65	Numerical Simulation of 3D Unsteady Flowfield in Aft-Finocyl Solid Rocket Motor. , 2014, , .		3
66	Convergence of two numerical schemes for turbulent boundary layer computations. , 1998, , .		2
67	Numerical Investigation of the Unsteady Flow at High Reynolds Number Over a Marine Riser With Helical Strakes. , 2006, , 587.		2
68	Application of WENO-Positivity-Preserving Schemes to Highly Under-Expanded Jets. Journal of Scientific Computing, 2016, 69, 1033-1057.	1.1	2
69	Hydroacoustic characterization of a marine propeller through the acoustic analogy. , 2011, , 991-1000.		2
70	Calm-Water Resistance Prediction of a Surface-Effect Ship. , 2009, , .		2
71	Numerical Simulation of the Flow around an Array of Free-Surface Piercing Cylinders in Waves. Ship Technology Research, 2007, 54, 42-52.	1.1	1
72	Analysis of the Flow Around a Manoeuvring VLCC. , 2008, , .		1

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73	Implicit Large-Eddy Simulation of Solid Rocket Motors using the Immersed Boundary Method. , 2021, , .		1
74	Analysis of the Roll Decay Motion for a Patrol Boat by URANS Simulations. , 2009, , .		1
75	A study on the effect of the cushion pressure on a planing surface. Ocean Engineering, 2014, 91, 122-132.	1.9	0
76	Vortex-Sound Generation and Thrust Unsteadiness in Aft-Finocyl Solid Rocket Motor. , 2015, , .		0
77	Numerical Simulation of the Flow Around Free-Surface Piercing Bodies in Waves by an Overlapping Grids Approach. , 2006, , .		0
78	Numerical Simulation of the Flow Around an Array of Free-Surface Piercing Cylinders in Waves. , 2007, , .		0
79	Numerical Simulation of Interface Time Evolution by Oriented Lagrangian Particles and Level-Set Method. , 2009, , .		0