

Ignazio Maria Viola

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,065
citations

394421

19
h-index

454955

30
g-index

60
all docs

60
docs citations

60
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Usefulness of Inviscid Linear Unsteady Lifting-Line Theory for Viscous Large-Amplitude Problems. AIAA Journal, 2022, 60, 598-609.	2.6	6
2	Morphing blades for tidal turbines: A theoretical study. Renewable Energy, 2022, 183, 802-819.	8.9	10
3	A Low Cost Oscillating Membrane for Underwater Applications at Low Reynolds Numbers. Journal of Marine Science and Engineering, 2022, 10, 77.	2.6	0
4	Turbulent flow around circular arcs. Physics of Fluids, 2022, 34, .	4.0	5
5	Flying seeds. Current Biology, 2022, 32, R204-R205.	3.9	1
6	Dandelion pappus morphing is actuated by radially patterned material swelling. Nature Communications, 2022, 13, 2498.	12.8	15
7	Mitigation of rotor thrust fluctuations through passive pitch. Journal of Fluids and Structures, 2022, 112, 103599.	3.4	3
8	Face Coverings, Aerosol Dispersion and Mitigation of Virus Transmission Risk. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 26-35.	2.3	51
9	The scales of the leading-edge separation bubble. Physics of Fluids, 2021, 33, 045101.	4.0	8
10	Unsteady load mitigation through a passive trailing-edge flap. Journal of Fluids and Structures, 2021, 106, 103352.	3.4	9
11	The force generation mechanism of lifting surfaces with flow separation. Ocean Engineering, 2021, 239, 109749.	4.3	6
12	Unsteady lift on a high-amplitude pitching aerofoil. Experiments in Fluids, 2021, 62, 1.	2.4	19
13	Unsteady hydrodynamics of tidal turbine blades. Renewable Energy, 2020, 146, 843-855.	8.9	35
14	On the friction drag reduction mechanism of streamwise wall fluctuations. International Journal of Heat and Fluid Flow, 2020, 86, 108686.	2.4	4
15	The dispersion of spherical droplets in sourceâ€™sink flows and their relevance to the COVID-19 pandemic. Physics of Fluids, 2020, 32, 083302.	4.0	42
16	Velocity of the falling dispersal units in <i>Zelkova abelicea</i> : remarkable evolutionary conservation within the relict tree genus. American Journal of Botany, 2020, 107, 1831-1838.	1.7	6
17	Face coverings and respiratory tract droplet dispersion. Royal Society Open Science, 2020, 7, 201663.	2.4	34
18	Modelling of hull roughness. Ocean Engineering, 2019, 174, 31-42.	4.3	14

#	ARTICLE	IF	CITATIONS
19	A Geometrically Non-Linear Time-Domain Unsteady Lifting-Line Theory. , 2019, , .		7
20	Unsteady hydrodynamics of a full-scale tidal turbine operating in large wave conditions. Renewable Energy, 2019, 143, 199-213.	8.9	28
21	Active and passive in-plane wall fluctuations in turbulent channel flows. Journal of Fluid Mechanics, 2019, 866, 689-720.	3.4	22
22	Recent Advances in Numerical and Experimental Downwind Sail Aerodynamics. Journal of Sailing Technology, 2019, 4, 45-65.	0.5	7
23	The leading-edge vortex of yacht sails. Ocean Engineering, 2018, 159, 552-562.	4.3	11
24	Numerical investigation of vertical-axis tidal turbines with sinusoidal pitching blades. Ocean Engineering, 2018, 155, 75-87.	4.3	38
25	PROTEUS: A coupled iterative force-correction immersed-boundary cascaded lattice Boltzmann solver for moving and deformable boundary applications. Computers and Mathematics With Applications, 2018, 75, 1330-1354.	2.7	8
26	On the nonlinear dynamics of self-sustained limit-cycle oscillations in a flapping-foil energy harvester. Journal of Fluids and Structures, 2018, 83, 339-357.	3.4	20
27	Optimal airfoil shapes by high fidelity CFD. Aircraft Engineering and Aerospace Technology, 2018, 90, 1000-1011.	0.8	5
28	A separated vortex ring underlies the flight of the dandelion. Nature, 2018, 562, 414-418.	27.8	151
29	Design principles of hair-like structures as biological machines. Journal of the Royal Society Interface, 2018, 15, 20180206.	3.4	28
30	A real-time strategy-decision program for sailing yacht races. Ocean Engineering, 2017, 134, 129-139.	4.3	18
31	The effect of permeability on the flow past permeable disks at low Reynolds numbers. Physics of Fluids, 2017, 29, .	4.0	39
32	The leading-edge vortex of swift wing-shaped delta wings. Royal Society Open Science, 2017, 4, 170077.	2.4	20
33	PROTEUS: A coupled iterative force-correction immersed-boundary multi-domain cascaded lattice Boltzmann solver. Computers and Mathematics With Applications, 2017, 74, 2348-2368.	2.7	8
34	Wind modelling with nested Markov chains. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 157, 118-124.	3.9	16
35	Wind direction forecasting with artificial neural networks and support vector machines. Ocean Engineering, 2015, 97, 65-73.	4.3	48
36	A numerical method for the design of ships with wind-assisted propulsion. Ocean Engineering, 2015, 105, 33-42.	4.3	36

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37	The impact of electricity price forecast accuracy on the optimality of storage revenue. , 2014, , .		5
38	Wind-tunnel pressure measurements on model-scale rigid downwind sails. Ocean Engineering, 2014, 90, 84-92.	4.3	15
39	On risk attitude and optimal yacht racing tactics. Ocean Engineering, 2014, 90, 149-154.	4.3	17
40	Detached Eddy Simulation of a sailing yacht. Ocean Engineering, 2014, 90, 93-103.	4.3	21
41	Trim effect on the resistance of sailing planing hulls. Ocean Engineering, 2014, 88, 187-193.	4.3	7
42	Sails trim optimisation using CFD and RBF mesh morphing. Computers and Fluids, 2014, 93, 46-60.	2.5	56
43	On the uncertainty of CFD in sail aerodynamics. International Journal for Numerical Methods in Fluids, 2013, 72, 1146-1164.	1.6	21
44	Upwind sail aerodynamics: A RANS numerical investigation validated with wind tunnel pressure measurements. International Journal of Heat and Fluid Flow, 2013, 39, 90-101.	2.4	22
45	Recent Advances in Sailing Yacht Aerodynamics. Applied Mechanics Reviews, 2013, 65, .	10.1	5
46	Sail Aerodynamics: On-Water Pressure Measurements on a Downwind Sail. Journal of Ship Research, 2012, 56, 197-206.	1.1	8
47	Sail Aerodynamics: On-Water Pressure Measurements on a Downwind Sail. Journal of Ship Research, 2012, 56, 197-206.	1.1	2
48	Sail pressures from full-scale, wind-tunnel and numerical investigations. Ocean Engineering, 2011, 38, 1733-1743.	4.3	25
49	Sail aerodynamics: Understanding pressure distributions on upwind sails. Experimental Thermal and Fluid Science, 2011, 35, 1497-1504.	2.7	18
50	Full-scale pressure measurements on a Sparkman and Stephens 24-foot sailing yacht. Journal of Wind Engineering and Industrial Aerodynamics, 2010, 98, 800-807.	3.9	13
51	Analysis of Aerodynamic Indices for Racing Sailing Yachts: a Computational Study and Benchmark on up to 128 CPUs.. Lecture Notes in Computational Science and Engineering, 2010, , 61-70.	0.3	0
52	Downwind sail aerodynamics: A CFD investigation with high grid resolution. Ocean Engineering, 2009, 36, 974-984.	4.3	35
53	Moisture-Dependent Morphing Tunes the Dispersal of Dandelion Diaspores. SSRN Electronic Journal, 0, , .	0.4	1
54	Underwater LED-based Lagrangian particle tracking velocimetry. Journal of Visualization, 0, , 1.	1.8	2