Alfredo Pinelli

List of Publications by Year
in descending order

21	1,632	516710 16	713466 21
papers	citations	h-index	g-index

21	21	21	1278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The autonomous cycle of near-wall turbulence. Journal of Fluid Mechanics, 1999, 389, 335-359.	3.4	676
2	Immersed-boundary methods for general finite-difference and finite-volume Navierâ€“Stokes solvers. Journal of Computational Physics, 2010, 229, 9073-9091.	3.8	163
3	Turbulent shear flow over active and passive porous surfaces. Journal of Fluid Mechanics, 2001, 442, 89-117.	3.4	150
4	A Lattice Boltzmannâ€“Immersed Boundary method to simulate the fluid interaction with moving and slender flexible objects. Journal of Computational Physics, 2014, 261, 145-161.	3.8	137
5	Flow over a Wing with Leading-Edge Undulations. AIAA Journal, 2015, 53, 464-472.	2.6	117
6	Turbulent channel flow over an anisotropic porous wall â€“ drag increase and reduction. Journal of Fluid Mechanics, 2018, 842, 381-394.	3.4	74
7	Direct numerical simulation of the flow around an aerofoil in ramp-up motion. Physics of Fluids, 2016, 28, .	4.0	44
8	Accelerating fluidâ€“solid simulations (Lattice-Boltzmann & Immersed-Boundary) on heterogeneous architectures. Journal of Computational Science, 2015, 10, 249-261.	2.9	36
9	Fast finite difference Poisson solvers on heterogeneous architectures. Computer Physics Communications, 2014, 185, 1265-1272.	7.5	33
10	Large-eddy simulation of an open-channel flow bounded by a semi-dense rigid filamentous canopy: Scaling and flow structure. Physics of Fluids, 2019, 31, 065108.	4.0	28
11	Mechanisms of airfoil noise near stall conditions. Physical Review Fluids, 2019, 4, .	2.5	23
12	Accelerating Solid-fluid Interaction using Lattice-boltzmann and Immersed Boundary Coupled Simulations on Heterogeneous Platforms. Procedia Computer Science, 2014, 29, 50-61.	2.0	22
13	Passive control of the flow around unsteady aerofoils using a self-activated deployable flap. Journal of Turbulence, 2018, 19, 204-228.	1.4	22
14	The PELskin project-part V: towards the control of the flow around aerofoils at high angle of attack using a self-activated deployable flap. Meccanica, 2017, 52, 1811-1824.	2.0	21
15	On the genesis of different regimes in canopy flows: a numerical investigation. Journal of Fluid Mechanics, 2020, 891, .	3.4	19
16	Localized turbulence structures in transitional rectangular-duct flow. Journal of Fluid Mechanics, 2015, 782, 368-379.	3.4	16
17	On the manipulation of flow and acoustic fields of a blunt trailing edge aerofoil by serrated leading edges. Journal of the Acoustical Society of America, 2020, 147, 3932-3947.	1.1	14
18	Numerical Simulation of a Passive Control of the Flow Around an Aerofoil Using a Flexible, Self Adaptive Flaplet. Flow, Turbulence and Combustion, 2018, 100, 1111-1143.	2.6	13

#	Article	IF	Citations
19	The PELskin project: part IVâ€”control of bluff body wakes using hairy filaments. Meccanica, 2017, 52, 1503-1514.	2.0	12
20	Leading edge serrations for the reduction of aerofoil self-noise at low angle of attack, pre-stall and post-stall conditions. International Journal of Aeroacoustics, 2021, 20, 130-156.	1.3	11
21	Multicore and Manycore. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 107-158.	0.5	1