Giorgio Graziani

List of Publications by Year
in descending order

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34	1,356	623734	501196
papers	citations	14 h-index	28 g-index

35	35	35	835
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Î´-SPH model for simulating violent impact flows. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1526-1542.	6.6	524
2	Fast free-surface detection and level-set function definition in SPH solvers. Journal of Computational Physics, 2010, 229, 3652-3663.	3.8	210
3	An accurate SPH modeling of viscous flows around bodies at low and moderate Reynolds numbers. Journal of Computational Physics, 2013, 245, 456-475.	3.8	150
4	Unsteady flow throughin-vitromodels of the glottis. Journal of the Acoustical Society of America, 2003, 113, 1658-1675.	1.1	83
5	Thermocapillary convection in a rectangular cavity: asymptotic theory and numerical simulation. Journal of Fluid Mechanics, 1983, 130, 347.	3.4	65
6	Hydroelastic slamming response in the evolution of a flip-through event during shallow-liquid sloshing. Physics of Fluids, 2014, 26, .	4.0	40
7	The Diffused Vortex Hydrodynamics Method. Communications in Computational Physics, 2015, 18, 351-379.	1.7	36
8	Numerical simulations of the transition from laminar to chaotic behaviour of the planar vortex flow past a circular cylinder. Communications in Nonlinear Science and Numerical Simulation, 2017, 48, 18-38.	3.3	31
9	Numerical simulation of 2D-vorticity dynamics using particle methods. Computers and Mathematics With Applications, 2015, 69, 1484-1503.	2.7	24
10	Simulating 2D viscous flow around geometries with vertices through the Diffused Vortex Hydrodynamics method. Computer Methods in Applied Mechanics and Engineering, 2016, 302, 147-169.	6.6	24
11	From a boundary integral formulation to a vortex method for viscous flows. Computational Mechanics, 1995, 15, 301-314.	4.0	19
12	Generalized HPC method for the Poisson equation. Journal of Computational Physics, 2015, 299, 630-648.	3.8	18
13	Unsteady Viscous Flows about Bodies: Vorticity Release and Forces. Meccanica, 2002, 37, 283-303.	2.0	17
14	Particles for fluids: SPH versus vortex methods. Mathematics and Mechanics of Complex Systems, 2014, 2, 45-70.	0.9	17
15	A discrete vector potential model for unsteady incompressible viscous flows. Journal of Computational Physics, 1991, 92, 161-184.	3.8	12
16	On the role of added mass and vorticity release for self-propelled aquatic locomotion. Journal of Fluid Mechanics, 2021, 918, .	3.4	11
17	Effect of free surface radiation in axisymmetric thermocapillary flows. Acta Astronautica, 1982, 9, 231-243.	3.2	10
18	A boundary integral equation method for axisymmetric viscous flows. International Journal of Engineering Science, 1989, 27, 855-864.	5.0	10

#	Article	IF	Citations
19	The relevance of recoil and free swimming in aquatic locomotion. Journal of Fluids and Structures, 2021, 103, 103290.	3.4	10
20	The performance of a flapping foil for a self-propelled fishlike body. Scientific Reports, 2021, 11, 22297.	3.3	9
21	Parallel Blade-Vortex Interaction Modelling for Helicopter Rotor Noise Control Synthesis. International Journal of Aeroacoustics, 2014, 13, 587-606.	1.3	5
22	Viscous vs. inviscid interaction of a vorticity structure with a circular cylinder. Meccanica, 1994, 29, 465-478.	2.0	4
23	Flow simulations with multi-particle collision dynamics. Meccanica, 2012, 47, 2069-2077.	2.0	4
24	Hydroelastic Challenges for Wave-Impact Phenomena in Sloshing Flow. , 2013, , .		4
25	On the feasibility of the Rayleigh cycle for dynamic soaring trajectories. PLoS ONE, 2020, 15, e0229746.	2.5	4
26	A boundary-integral equation method for free surface viscous flows. Meccanica, 1984, 19, 294-299.	2.0	3
27	Parallel Blade-Vortex Interaction Analyses and Rotor Noise Control Synthesis. , 2013, , .		3
28	The fish ability to accelerate and suddenly turn in fast maneuvers. Scientific Reports, 2022, 12, 4946.	3.3	3
29	Green's function method for axisymmetric flows: analysis of the Taylor-Couette flow. Computational Mechanics, 1990, 7, 77-88.	4.0	2
30	Blade-Vortex Interaction Noise Controller Based on Miniature Trailing Edge Effectors. , 2018, 23, 378-384.		2
31	Pressure feedback-based bladeâ€“vortex interaction noise controller for helicopter rotors. International Journal of Aeroacoustics, 2018, 17, 295-318.	1.3	1
32	THERMOCAPILLARY CONVECTION IN A RECTANGULAR CAVITY. Annals of the New York Academy of Sciences, 1983, 404, 520-522.	3.8	0
33	Synthesis of a Rotor Noise Controller by Parallel Blade-Vortex Interaction Aeroelastic Modelling. , 2014, , .		0
34	A Boundary Element Model for the Taylor-Couette Instability. , 1990, , 119-123.		0