Gennaro Coppola

List of Publications by Year
in descending order

34 papers	538 citations	687363 13 h-index	642732 23 g-index
36 all docs	36 docs citations	36 times ranked	440 citing authors

#	Article	IF	Citations
1	Fast-Projection Methods for the Incompressible Navierâ€“Stokes Equations. Fluids, 2020, 5, 222.	1.7	5
2	P1449 CMR-driven computational modeling of right ventricular flow dynamics. European Heart Journal Cardiovascular Imaging, 2020, 21, .	1.2	1
3	An Analysis of Time-Integration Errors in Large-Eddy Simulation of Incompressible Turbulent Flows. ERCOFTAC Series, 2019, , 31-37.	0.1	0
4	Discrete Energy-Conservation Properties in the Numerical Simulation of the Navierâ€“Stokes Equations. Applied Mechanics Reviews, 2019, 71, .	10.1	31
5	Numerically stable formulations of convective terms for turbulent compressible flows. Journal of Computational Physics, 2019, 382, 86-104.	3.8	66
6	Discrete Conservation of Helicity in Numerical Simulations of Incompressible Turbulent Flows. ERCOFTAC Series, 2019, , 17-22.	0.1	1
7	Efficient adaptive pseudo-symplectic numerical integration techniques for Landau-Lifshitz dynamics. AIP Advances, 2018, 8, 056014.	1.3	2
8	Pseudo-symplectic numerical schemes for Landau-Lifshitz dynamics. Physica B: Condensed Matter, 2018, 549, 98-101.	2.7	0
9	Derivation of New Staggered Compact Schemes with Application to Navier-Stokes Equations. Applied Sciences (Switzerland), 2018, 8, 1066.	2.5	1
10	Unsteady critical liquid sheet flows. Journal of Fluid Mechanics, 2017, 821, 219-247.	3.4	20
11	Explicit Rungeâ€“Kutta schemes for incompressible flow with improved energy-conservation properties. Journal of Computational Physics, 2017, 328, 86-94.	3.8	56
12	LEM Characterization of Synthetic Jet Actuators Driven by Piezoelectric Element: A Review. Sensors, 2017, 17, 1216.	3.8	48
13	Scaling properties of resonant cavities driven by piezo-electric actuators. Sensors and Actuators A: Physical, 2016, 247, 465-474.	4.1	24
14	Approximate Projection Method for the Incompressible Navierâ€“Stokes Equations. AIAA Journal, 2016, 54, 2179-2182.	2.6	16
15	Characterization of Synthetic Jet Resonant Cavities. , 2015, , 101-118.		0
16	Energy preserving turbulent simulations at a reduced computational cost. Journal of Computational Physics, 2015, 298, 480-494.	3.8	20
17	An efficient time advancing strategy for energy-preserving simulations. Journal of Computational Physics, 2015, 295, 209-229.	3.8	16
18	Modeling and Experimental Validation of the Frequency Response of Synthetic Jet Actuators. AIAA Journal, 2014, 52, 1733-1748.	2.6	55

#	Article	IF	Citations
19	Disturbance energy growth in coreâ€“annular flow. Journal of Fluid Mechanics, 2014, 747, 44-72.	3.4	6
20	Surface tension effects on the motion of a free-falling liquid sheet. Physics of Fluids, 2013, 25, .	4.0	8
21	Global eigenmodes of free-interface vertical liquid sheet flows. WIT Transactions on Engineering Sciences, 2013, , .	0.0	3
22	Non-Modal Instability of Core-Annular Flow. International Journal of Nonlinear Sciences and Numerical Simulation, 2012, 13, .	1.0	1
23	SINGLE-WAVE KELVIN-HELMHOLTZ INSTABILITY IN NONPARALLEL CHANNEL FLOW. Atomization and Sprays, 2011, 21, 775-785.	0.8	3
24	Insights on the impact of a plane drop on a thin liquid film. Physics of Fluids, 2011, 23, .	4.0	53
25	Interfacial instability of two rotating viscous immiscible fluids in a cylinder. Physics of Fluids, 2011, 23, .	4.0	6
26	Non-modal dynamics before flow-induced instability in fluidâ€“structure interactions. Journal of Sound and Vibration, 2010, 329, 848-865.	3.9	6
27	The VOF method applied to the numerical simulation of a 2D liquid jet under gravity. WIT Transactions on Engineering Sciences, 2010, , .	0.0	7
28	Midpoint numerical technique for stochastic Landau-Lifshitz-Gilbert dynamics. Journal of Applied Physics, 2006, 99, 08B905.	2.5	56
29	On transient growth oscillations in linear models. Physics of Fluids, 2006, 18, 078104.	4.0	13
30	A new approach to computations of forces in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 657-658.	2.3	0
31	Forces in magnetic fluids subject to stationary magnetic fields. IEEE Transactions on Magnetics, 2003, 39, 2657-2659.	2.1	8
32	A new high-order finite volume element method with spectral-like resolution. International Journal for Numerical Methods in Fluids, 2002, 40, 487-496.	1.6	1
33	Generalization of the Spline Interpolation Based on the Principle of the Compact Schemes. Journal of Scientific Computing, 2002, 17, 695-706.	2.3	4
34	Forces in magnetic fluids subject to stationary magnetic fields. , 0, , .		0