

# Gennaro Coppola

## List of Publications by Year in descending order

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34  
papers

538  
citations

687363

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642732

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g-index

36  
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36  
docs citations

36  
times ranked

440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerically stable formulations of convective terms for turbulent compressible flows. Journal of Computational Physics, 2019, 382, 86-104.	3.8	66
2	Midpoint numerical technique for stochastic Landau-Lifshitz-Gilbert dynamics. Journal of Applied Physics, 2006, 99, 08B905.	2.5	56
3	Explicit Runge-Kutta schemes for incompressible flow with improved energy-conservation properties. Journal of Computational Physics, 2017, 328, 86-94.	3.8	56
4	Modeling and Experimental Validation of the Frequency Response of Synthetic Jet Actuators. AIAA Journal, 2014, 52, 1733-1748.	2.6	55
5	Insights on the impact of a plane drop on a thin liquid film. Physics of Fluids, 2011, 23, .	4.0	53
6	LEM Characterization of Synthetic Jet Actuators Driven by Piezoelectric Element: A Review. Sensors, 2017, 17, 1216.	3.8	48
7	Discrete Energy-Conservation Properties in the Numerical Simulation of the Navier-Stokes Equations. Applied Mechanics Reviews, 2019, 71, .	10.1	31
8	Scaling properties of resonant cavities driven by piezo-electric actuators. Sensors and Actuators A: Physical, 2016, 247, 465-474.	4.1	24
9	Energy preserving turbulent simulations at a reduced computational cost. Journal of Computational Physics, 2015, 298, 480-494.	3.8	20
10	Unsteady critical liquid sheet flows. Journal of Fluid Mechanics, 2017, 821, 219-247.	3.4	20
11	An efficient time advancing strategy for energy-preserving simulations. Journal of Computational Physics, 2015, 295, 209-229.	3.8	16
12	Approximate Projection Method for the Incompressible Navier-Stokes Equations. AIAA Journal, 2016, 54, 2179-2182.	2.6	16
13	On transient growth oscillations in linear models. Physics of Fluids, 2006, 18, 078104.	4.0	13
14	Forces in magnetic fluids subject to stationary magnetic fields. IEEE Transactions on Magnetics, 2003, 39, 2657-2659.	2.1	8
15	Surface tension effects on the motion of a free-falling liquid sheet. Physics of Fluids, 2013, 25, .	4.0	8
16	The VOF method applied to the numerical simulation of a 2D liquid jet under gravity. WIT Transactions on Engineering Sciences, 2010, , .	0.0	7
17	Non-modal dynamics before flow-induced instability in fluid-structure interactions. Journal of Sound and Vibration, 2010, 329, 848-865.	3.9	6
18	Interfacial instability of two rotating viscous immiscible fluids in a cylinder. Physics of Fluids, 2011, 23, .	4.0	6

#	ARTICLE	IF	CITATIONS
19	Disturbance energy growth in core-annular flow. Journal of Fluid Mechanics, 2014, 747, 44-72.	3.4	6
20	Fast-Projection Methods for the Incompressible Navier-Stokes Equations. Fluids, 2020, 5, 222.	1.7	5
21	Generalization of the Spline Interpolation Based on the Principle of the Compact Schemes. Journal of Scientific Computing, 2002, 17, 695-706.	2.3	4
22	SINGLE-WAVE KELVIN-HELMHOLTZ INSTABILITY IN NONPARALLEL CHANNEL FLOW. Atomization and Sprays, 2011, 21, 775-785.	0.8	3
23	Global eigenmodes of free-interface vertical liquid sheet flows. WIT Transactions on Engineering Sciences, 2013, , .	0.0	3
24	Efficient adaptive pseudo-symplectic numerical integration techniques for Landau-Lifshitz dynamics. AIP Advances, 2018, 8, 056014.	1.3	2
25	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
26	Non-Modal Instability of Core-Annular Flow. International Journal of Nonlinear Sciences and Numerical Simulation, 2012, 13, .	1.0	1
27	Derivation of New Staggered Compact Schemes with Application to Navier-Stokes Equations. Applied Sciences (Switzerland), 2018, 8, 1066.	2.5	1
28	P1449 CMR-driven computational modeling of right ventricular flow dynamics. European Heart Journal Cardiovascular Imaging, 2020, 21, .	1.2	1
29	Discrete Conservation of Helicity in Numerical Simulations of Incompressible Turbulent Flows. ERCOFTAC Series, 2019, , 17-22.	0.1	1
30	Forces in magnetic fluids subject to stationary magnetic fields. , 0, , .		0
31	A new approach to computations of forces in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 657-658.	2.3	0
32	Characterization of Synthetic Jet Resonant Cavities. , 2015, , 101-118.		0
33	Pseudo-symplectic numerical schemes for Landau-Lifshitz dynamics. Physica B: Condensed Matter, 2018, 549, 98-101.	2.7	0
34	An Analysis of Time-Integration Errors in Large-Eddy Simulation of Incompressible Turbulent Flows. ERCOFTAC Series, 2019, , 31-37.	0.1	0