

# Gianluca Iaccarino

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

4,229  
citations

471509

17  
h-index

330143

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

3534  
citing authors

#	ARTICLE	IF	CITATIONS
1	The discrete Green's function paradigm for two-way coupled Euler-Lagrange simulation. <i>Journal of Fluid Mechanics</i> , 2022, 931, .	3.4	7
2	Task-parallel in situ temporal compression of large-scale computational fluid dynamics data. <i>International Journal of High Performance Computing Applications</i> , 2022, 36, 388-418.	3.7	4
3	Estimating RANS model uncertainty using machine learning. <i>Journal of the Global Power and Propulsion Society</i> , 2021, , 1-14.	0.8	15
4	A benchmark for particle-laden turbulent duct flow: A joint computational and experimental study. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103410.	3.4	18
5	Cutting the double loop: Theory and algorithms for reliability-based design optimization with parametric uncertainty. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 118, 718-740.	2.8	14
6	Turbulence Modeling in the Age of Data. <i>Annual Review of Fluid Mechanics</i> , 2019, 51, 357-377.	25.0	755
7	Simulation of microparticle inhalation in rhesus monkey airways. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	2
8	Suspension flow through an asymmetric T-junction. <i>Journal of Fluid Mechanics</i> , 2018, 844, 247-273.	3.4	9
9	A scalable geometric multigrid solver for nonsymmetric elliptic systems with application to variable-density flows. <i>Journal of Computational Physics</i> , 2018, 357, 142-158.	3.8	19
10	Immersed-finite-element method for deformable particle suspensions in viscous and viscoelastic media. <i>Physical Review E</i> , 2018, 98, .	2.1	31
11	Vortex-induced rotations of a rigid square cylinder at low Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2017, 813, 482-507.	3.4	21
12	A generalized multi-resolution expansion for uncertainty propagation with application to cardiovascular modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 314, 196-221.	6.6	22
13	Study of the flow unsteadiness in the human airway using large eddy simulation. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	18
14	Growth of viscoelastic wings and the reduction of particle mobility in a viscoelastic shear flow. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	8
15	A Novel Weakly-Intrusive Non-linear Multiresolution Framework for Uncertainty Quantification in Hyperbolic Partial Differential Equations. <i>Journal of Scientific Computing</i> , 2016, 66, 358-405.	2.3	8
16	An adaptive multiresolution semi-intrusive scheme for UQ in compressible fluid problems. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 78, 595-637.	1.6	7
17	Uncertainty Quantification for the Trailing-Edge Noise of a Controlled-Diffusion Airfoil. <i>AIAA Journal</i> , 2015, 53, 42-54.	2.6	29
18	Reusing Chebyshev points for polynomial interpolation. <i>Numerical Algorithms</i> , 2015, 70, 249-267.	1.9	2

#	ARTICLE	IF	CITATIONS
19	Simulations of High Reynolds Number Air Flow Over the NACA-0012 Airfoil Using the Immersed Boundary Method. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	1.5	7
20	Local shear and mass transfer on individual coral colonies: Computations in unidirectional and wave-driven flows. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2599-2619.	2.6	20
21	Flow past a transversely rotating sphere at Reynolds numbers above the laminar regime. <i>Journal of Fluid Mechanics</i> , 2014, 759, 751-781.	3.4	29
22	A subgrid-scale eddy-viscosity model based on the volumetric strain-stretching. <i>Physics of Fluids</i> , 2014, 26, .	4.0	16
23	Assessment of Uncertainties in Modeling of Laminar to Turbulent Transition for Transonic Flows. <i>Flow, Turbulence and Combustion</i> , 2013, 91, 41-61.	2.6	9
24	A simplex-based numerical framework for simple and efficient robust design optimization. <i>Computational Optimization and Applications</i> , 2013, 56, 231-251.	1.6	10
25	Large-eddy simulation of passive scalar dispersion in an urban-like canopy. <i>Journal of Fluid Mechanics</i> , 2013, 723, 404-428.	3.4	31
26	Modeling of structural uncertainties in Reynolds-averaged Navier-Stokes closures. <i>Physics of Fluids</i> , 2013, 25, .	4.0	85
27	An Aerodynamic Investigation of an Isolated Rotating Formula 1 Wheel Assembly. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012, 134, .	1.5	13
28	An Aerodynamic Investigation of an Isolated Stationary Formula 1 Wheel Assembly. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012, 134, .	1.5	19
29	Unsteady Aerodynamic Flow Investigation Around a Simplified Square-Back Road Vehicle With Drag Reduction Devices. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012, 134, .	1.5	40
30	Effects of viscoelasticity in the high Reynolds number cylinder wake. <i>Journal of Fluid Mechanics</i> , 2012, 693, 297-318.	3.4	23
31	Numerical Simulation of Polymer Injection in Turbulent Flow Past a Circular Cylinder. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, .	1.5	2
32	Simulations of three-dimensional viscoelastic flows past a circular cylinder at moderate Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2010, 651, 415-442.	3.4	80
33	Stable Boundary Treatment for the Wave Equation on a Second-Order Form. <i>Journal of Scientific Computing</i> , 2009, 41, 366-383.	2.3	51
34	LES Prediction of Wall-Pressure Fluctuations and Noise of a Low-Speed Airfoil. <i>International Journal of Aeroacoustics</i> , 2009, 8, 177-197.	1.3	85
35	Towards Rapid Analysis of Turbulent Flows in Complex Internal Passages. <i>Flow, Turbulence and Combustion</i> , 2006, 77, 27-39.	2.6	5
36	IMMERSED BOUNDARY METHODS. <i>Annual Review of Fluid Mechanics</i> , 2005, 37, 239-261.	25.0	2,714