

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 | IMMERSED BOUNDARY METHODS. Annual Review of Fluid Mechanics, 2005, 37, 239-261. | 25.0 | 2,714 |
| 2 | Turbulence Modeling in the Age of Data. Annual Review of Fluid Mechanics, 2019, 51, 357-377. | 25.0 | 755 |
| 3 | LES Prediction of Wall-Pressure Fluctuations and Noise of a Low-Speed Airfoil. International Journal of Aeroacoustics, 2009, 8, 177-197. | 1.3 | 85 |
| 4 | Modeling of structural uncertainties in Reynolds-averaged Navier-Stokes closures. Physics of Fluids, 2013, 25, . | 4.0 | 85 |
| 5 | Simulations of three-dimensional viscoelastic flows past a circular cylinder at moderate Reynolds numbers. Journal of Fluid Mechanics, 2010, 651, 415-442. | 3.4 | 80 |
| 6 | Stable Boundary Treatment for the Wave Equation on a Second-Order Form. Journal of Scientific Computing, 2009, 41, 366-383. | 2.3 | 51 |
| 7 | Unsteady Aerodynamic Flow Investigation Around a Simplified Square-Back Road Vehicle With Drag Reduction Devices. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, . | 1.5 | 40 |
| 8 | Large-eddy simulation of passive scalar dispersion in an urban-like canopy. Journal of Fluid Mechanics, 2013, 723, 404-428. | 3.4 | 31 |
| 9 | Immersed-finite-element method for deformable particle suspensions in viscous and viscoelastic media. Physical Review E, 2018, 98, . | 2.1 | 31 |
| 10 | Flow past a transversely rotating sphere at Reynolds numbers above the laminar regime. Journal of Fluid Mechanics, 2014, 759, 751-781. | 3.4 | 29 |
| 11 | Uncertainty Quantification for the Trailing-Edge Noise of a Controlled-Diffusion Airfoil. AIAA Journal, 2015, 53, 42-54. | 2.6 | 29 |
| 12 | Effects of viscoelasticity in the high Reynolds number cylinder wake. Journal of Fluid Mechanics, 2012, 693, 297-318. | 3.4 | 23 |
| 13 | A generalized multi-resolution expansion for uncertainty propagation with application to cardiovascular modeling. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 196-221. | 6.6 | 22 |
| 14 | Vortex-induced rotations of a rigid square cylinder at low Reynolds numbers. Journal of Fluid Mechanics, 2017, 813, 482-507. | 3.4 | 21 |
| 15 | Local shear and mass transfer on individual coral colonies: Computations in unidirectional and wave-driven flows. Journal of Geophysical Research: Oceans, 2014, 119, 2599-2619. | 2.6 | 20 |
| 16 | An Aerodynamic Investigation of an Isolated Stationary Formula 1 Wheel Assembly. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, . | 1.5 | 19 |
| 17 | A scalable geometric multigrid solver for nonsymmetric elliptic systems with application to variable-density flows. Journal of Computational Physics, 2018, 357, 142-158. | 3.8 | 19 |
| 18 | A benchmark for particle-laden turbulent duct flow: A joint computational and experimental study. International Journal of Multiphase Flow, 2020, 132, 103410. | 3.4 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Study of the flow unsteadiness in the human airway using large eddy simulation. <i>Physical Review Fluids</i> , 2017, 2, . | 2.5 | 18 |
| 20 | A subgrid-scale eddy-viscosity model based on the volumetric strain-stretching. <i>Physics of Fluids</i> , 2014, 26, . | 4.0 | 16 |
| 21 | Estimating RANS model uncertainty using machine learning. <i>Journal of the Global Power and Propulsion Society</i> , 2021, , 1-14. | 0.8 | 15 |
| 22 | 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 |
| 23 | 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 |
| 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 | 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 |
| 26 | Suspension flow through an asymmetric T-junction. <i>Journal of Fluid Mechanics</i> , 2018, 844, 247-273. | 3.4 | 9 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | The discrete Green's function paradigm for two-way coupled Euler-Lagrange simulation. <i>Journal of Fluid Mechanics</i> , 2022, 931, . | 3.4 | 7 |
| 32 | Towards Rapid Analysis of Turbulent Flows in Complex Internal Passages. <i>Flow, Turbulence and Combustion</i> , 2006, 77, 27-39. | 2.6 | 5 |
| 33 | 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 |
| 34 | 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 |
| 35 | Reusing Chebyshev points for polynomial interpolation. <i>Numerical Algorithms</i> , 2015, 70, 249-267. | 1.9 | 2 |
| 36 | Simulation of microparticle inhalation in rhesus monkey airways. <i>Physical Review Fluids</i> , 2019, 4, . | 2.5 | 2 |