

# Franco Auteri

## List of Publications by Year in descending order

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46  
papers

742  
citations

516710

16  
h-index

526287

27  
g-index

48  
all docs

48  
docs citations

48  
times ranked

585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Investigation on the Stability of Singular Driven Cavity Flow. Journal of Computational Physics, 2002, 183, 1-25.	3.8	121
2	Experimental assessment of drag reduction by traveling waves in a turbulent pipe flow. Physics of Fluids, 2010, 22, .	4.0	84
3	On the origin of the flip-flop instability of two side-by-side cylinder wakes. Journal of Fluid Mechanics, 2014, 742, 552-576.	3.4	74
4	Global stability and sensitivity analysis of boundary-layer flows past a hemispherical roughness element. Physics of Fluids, 2015, 27, .	4.0	35
5	Efficient stabilization and acceleration of numerical simulation of fluid flows by residual recombination. Journal of Computational Physics, 2017, 344, 234-246.	3.8	35
6	First instability and structural sensitivity of the flow past two side-by-side cylinders. Journal of Fluid Mechanics, 2014, 749, 627-648.	3.4	31
7	Essential imposition of Neumann condition in Galerkin-Legendre elliptic solvers. Journal of Computational Physics, 2003, 185, 427-444.	3.8	23
8	Galerkin Spectral Method for the Vorticity and Stream Function Equations. Journal of Computational Physics, 1999, 149, 306-332.	3.8	22
9	Accurate $\bar{u}$ - $\bar{v}$ Spectral Solution of the Singular Driven Cavity Problem. Journal of Computational Physics, 2002, 180, 597-615.	3.8	22
10	Helicopter drag reduction by vortex generators. Aerospace Science and Technology, 2015, 47, 324-339.	4.8	22
11	Galerkin-Legendre Spectral Method for the 3D Helmholtz Equation. Journal of Computational Physics, 2000, 161, 454-483.	3.8	21
12	A novel approach for reconstructing pressure from PIV velocity measurements. Experiments in Fluids, 2015, 56, 1.	2.4	20
13	Centre-manifold reduction of bifurcating flows. Journal of Fluid Mechanics, 2015, 767, 109-145.	3.4	20
14	A Mixed-Basis Spectral Projection Method. Journal of Computational Physics, 2002, 175, 1-23.	3.8	19
15	Normal flat plates in tandem: An experimental investigation. Journal of Wind Engineering and Industrial Aerodynamics, 2008, 96, 872-879.	3.9	17
16	Computation of the bluff-body sound generation by a self-consistent mean flow formulation. Physics of Fluids, 2018, 30, .	4.0	16
17	Role of the LBB Condition in Weak Spectral Projection Methods. Journal of Computational Physics, 2001, 174, 405-420.	3.8	15
18	Secondary instabilities of the in-phase synchronized wakes past two circular cylinders in side-by-side arrangement. Journal of Fluids and Structures, 2015, 53, 70-83.	3.4	15

#	ARTICLE	IF	CITATIONS
19	Non-modal analysis of coaxial jets. <i>Journal of Fluid Mechanics</i> , 2019, 872, 665-696.	3.4	15
20	Linear global stability of two incompressible coaxial jets. <i>Journal of Fluid Mechanics</i> , 2017, 824, 886-911.	3.4	12
21	Wind-tunnel tests of a tilt-rotor aircraft. <i>Aeronautical Journal</i> , 2011, 115, 315-322.	1.6	11
22	Interacting wakes of two normal flat plates an investigation based on phase averaging of LDA signals. <i>Journal of Visualization</i> , 2009, 12, 307-321.	1.8	10
23	On the frequency selection mechanism of the low- $Re$ flow around rectangular cylinders. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	3.4	10
24	Linear stability of the steady flow past rectangular cylinders. <i>Journal of Fluid Mechanics</i> , 2021, 929, .	3.4	9
25	Experimental evaluation of the aerodynamic performance of a large-scale high-lift morphing wing. <i>Aerospace Science and Technology</i> , 2022, 124, 107515.	4.8	9
26	Galerkin-Laguerre Spectral Solution of Self-Similar Boundary Layer Problems. <i>Communications in Computational Physics</i> , 2012, 12, 1329-1358.	1.7	7
27	Numerical investigation of the first instabilities in the differentially heated 8:1 cavity. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 40, 1121-1132.	1.6	6
28	Spectral solvers for spherical elliptic problems. <i>Journal of Computational Physics</i> , 2007, 227, 36-54.	3.8	6
29	Boundary-layer Flows Past an Hemispherical Roughness Element: DNS, Global Stability and Sensitivity Analysis. <i>Procedia IUTAM</i> , 2015, 14, 173-181.	1.2	5
30	Navier-Stokes spectral solver in a sphere. <i>Journal of Computational Physics</i> , 2009, 228, 7197-7214.	3.8	4
31	Experimental investigation of a helicopter rotor with Gurney flaps. <i>Aeronautical Journal</i> , 2017, 121, 191-212.	1.6	4
32	Robustness and Limits of Vortex Generator Effectiveness in Helicopter Drag Reduction. <i>Journal of the American Helicopter Society</i> , 2016, 61, 1-7.	0.8	3
33	Wind-tunnel tests of a heavy-class helicopter optimised for drag reduction. <i>Aeronautical Journal</i> , 2016, 120, 1446-1467.	1.6	3
34	Incompressible Navier-Stokes solutions by a triangular spectral/p element projection method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 6927-6945.	6.6	2
35	Wind-tunnel tests of a heavy-class helicopter optimised for drag reduction – CORRIGENDUM. <i>Aeronautical Journal</i> , 2016, 120, 1507-1507.	1.6	2
36	A direction-splitting Navier-Stokes solver on co-located grids. <i>Journal of Computational Physics</i> , 2021, 429, 110023.	3.8	2

#	ARTICLE	IF	CITATIONS
37	Experimental assessment of turbulent drag reduction by wall traveling waves. Springer Proceedings in Physics, 2009, , 657-660.	0.2	2
38	A new scaling for the flow instability past symmetric bluff bodies. Journal of Fluid Mechanics, 2022, 936, .	3.4	2
39	Wind-tunnel tests of the ERICA tiltrotor optimised air-intake. Aeronautical Journal, 2018, 122, 821-837.	1.6	1
40	Simulation of the differentially heated 8: 1 rectangular cavity by a Galerkin-Legendre spectral projection method. , 2001, , 1451-1455.		1
41	Navier-Stokes Spectral Solver in a Finite Cylinder. Communications in Computational Physics, 2010, 8, 663-689.	1.7	1
42	Spectral influence matrix for vorticity without corner pathology. Applied Numerical Mathematics, 2000, 33, 135-142.	2.1	0
43	Spectral Matrix Conditioning in Cylindrical and Spherical Elliptic Equations. Numerical Mathematics, 2011, 4, 113-141.	1.3	0
44	Global Linear Stability Analysis of the Flow Around a Superhydrophobic Circular Cylinder. Springer Proceedings in Physics, 2016, , 165-170.	0.2	0
45	A Massively Parallel, Direction-Splitting Solver for DNS in Complex Geometries. ERCOFTAC Series, 2019, , 23-29.	0.1	0
46	Laguerre Simulation of Boundary Layer Flows: Conditions at Large Distance from the Wall. Lecture Notes in Computational Science and Engineering, 2014, , 99-109.	0.3	0