

# Simone Camarri

## List of Publications by Year in descending order

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52  
papers

1,202  
citations

304743

22  
h-index

377865

34  
g-index

53  
all docs

53  
docs citations

53  
times ranked

806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear stability analysis of wind turbine wakes performed on wind tunnel measurements. Journal of Fluid Mechanics, 2013, 737, 499-526.	3.4	107
2	Prediction of the hub vortex instability in a wind turbine wake: stability analysis with eddy-viscosity models calibrated on wind tunnel data. Journal of Fluid Mechanics, 2014, 750, .	3.4	89
3	Investigation of the steady engulfment regime in a three-dimensional T-mixer. Physics of Fluids, 2013, 25, .	4.0	80
4	Flow regimes in T-shaped micro-mixers. Computers and Chemical Engineering, 2015, 76, 150-159.	3.8	69
5	A low-diffusion MUSCL scheme for LES on unstructured grids. Computers and Fluids, 2004, 33, 1101-1129.	2.5	64
6	Low-dimensional modelling of a confined three-dimensional wake flow. Journal of Fluid Mechanics, 2006, 569, 141.	3.4	58
7	Effect of confinement on three-dimensional stability in the wake of a circular cylinder. Journal of Fluid Mechanics, 2010, 642, 477-487.	3.4	53
8	Structural sensitivity of the secondary instability in the wake of a circular cylinder. Journal of Fluid Mechanics, 2010, 651, 319-337.	3.4	46
9	An Overview of Flow Features and Mixing in Micro T and Arrow Mixers. Industrial & Engineering Chemistry Research, 2020, 59, 3669-3686.	3.7	46
10	Stability analysis and control of the flow in a symmetric channel with a sudden expansion. Physics of Fluids, 2012, 24, .	4.0	43
11	Unsteady asymmetric engulfment regime in a T-mixer. Physics of Fluids, 2014, 26, 074101.	4.0	41
12	On the inversion of the von Kármán street in the wake of a confined square cylinder. Journal of Fluid Mechanics, 2007, 574, 169-178.	3.4	38
13	Large-eddy simulation of a bluff-body flow on unstructured grids. International Journal for Numerical Methods in Fluids, 2002, 40, 1431-1460.	1.6	35
14	Stability analysis of boundary layers controlled by miniature vortex generators. Journal of Fluid Mechanics, 2015, 784, 596-618.	3.4	32
15	Flow dynamics of a dandelion pappus: A linear stability approach. Physical Review Fluids, 2019, 4, .	2.5	31
16	Large-eddy simulation of the flow around a triangular prism with moderate aspect ratio. Journal of Wind Engineering and Industrial Aerodynamics, 2006, 94, 309-322.	3.9	29
17	Suppression of von Kármán vortex streets past porous rectangular cylinders. Physical Review Fluids, 2018, 3, .	2.5	29
18	Hub vortex instability within wind turbine wakes: Effects of wind turbulence, loading conditions, and blade aerodynamics. Physical Review Fluids, 2016, 1, .	2.5	25

#	ARTICLE	IF	CITATIONS
19	Feedback control of the vortex-shedding instability based on sensitivity analysis. <i>Physics of Fluids</i> , 2010, 22, 094102.	4.0	24
20	Effect of geometry modifications on the engulfment in micromixers: Numerical simulations and stability analysis. <i>European Journal of Mechanics, B/Fluids</i> , 2016, 55, 360-366.	2.5	24
21	Feedback control by low-order modelling of the laminar flow past a bluff body. <i>Journal of Fluid Mechanics</i> , 2009, 634, 405.	3.4	23
22	Stability analysis of experimental flow fields behind a porous cylinder for the investigation of the large-scale wake vortices. <i>Journal of Fluid Mechanics</i> , 2013, 715, 499-536.	3.4	23
23	Flow control design inspired by linear stability analysis. <i>Acta Mechanica</i> , 2015, 226, 979-1010.	2.1	22
24	Boundary layer stabilization using free-stream vortices. <i>Journal of Fluid Mechanics</i> , 2015, 764, .	3.4	19
25	Sensitivity analysis and passive control of the secondary instability in the wake of a cylinder. <i>Journal of Fluid Mechanics</i> , 2019, 864, 45-72.	3.4	18
26	A non-linear observer for unsteady three-dimensional flows. <i>Journal of Computational Physics</i> , 2008, 227, 2626-2643.	3.8	14
27	Towards a quantitative comparison between global and local stability analysis. <i>Journal of Fluid Mechanics</i> , 2017, 819, 147-164.	3.4	13
28	Parallel simulation of three-dimensional complex flows: Application to two-phase compressible flows and turbulent wakes. <i>Advances in Engineering Software</i> , 2007, 38, 328-337.	3.8	9
29	Flow induced by a rotating cone: Base flow and convective stability analysis. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	9
30	Triple-deck analysis of the steady flow over a rotating disk with surface roughness. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	8
31	Numerical and Experimental Investigation of Longitudinal Oscillations in Hall Thrusters. <i>Aerospace</i> , 2021, 8, 148.	2.2	8
32	Homogenization-based design of microstructured membranes: wake flows past permeable shells. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	3.4	7
33	T-mixer operating with water at different temperatures: Simulation and stability analysis. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	7
34	The effects of roughness levels on the instability of the boundary-layer flow over a rotating disk with an enforced axial flow. <i>Physics of Fluids</i> , 2021, 33, .	4.0	7
35	Investigation of the symmetry-breaking instability in a T-mixer with circular cross section. <i>Physics of Fluids</i> , 2020, 32, .	4.0	6
36	Hybrid RANS/LES simulations of a bluff-body flow. <i>Wind and Structures, an International Journal</i> , 2005, 8, 407-426.	0.8	6

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37	On the effect of a penetrating recirculation region on the bifurcations of the flow past a permeable sphere. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
38	Instability of wind turbine wakes immersed in the atmospheric boundary layer. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012034.	0.4	5
39	A conditional stability criterion based on generalized energies. <i>Journal of Fluid Mechanics</i> , 2007, 581, 277-286.	3.4	4
40	Numerical Investigation of the AFRODITE Transition Control Strategy. <i>Springer Proceedings in Physics</i> , 2014, , 65-69.	0.2	4
41	Numerical Diffusion Based on High-Order Derivatives in MUSCL Schemes for LES on Unstructured Grids. <i>ERCOFTAC Series</i> , 2001, , 237-244.	0.1	4
42	Stokes eigenfunctions and Galerkin projection of the disturbance equations in plane Poiseuille flow: a systematic analytical approach. <i>Meccanica</i> , 2006, 41, 671-680.	2.0	3
43	Further generalized energies for the application of an energy criterion of conditional stability. <i>Acta Mechanica</i> , 2011, 218, 357-366.	2.1	3
44	Investigation of passive control of the wake past a thick plate by stability and sensitivity analysis of experimental data. <i>Journal of Fluid Mechanics</i> , 2017, 828, 753-778.	3.4	3
45	Stability properties of the mean flow after a steady symmetry-breaking bifurcation and prediction of the nonlinear saturation. <i>Acta Mechanica</i> , 2019, 230, 3127-3141.	2.1	2
46	T-shaped micromixers aligned in a row: characterization of the engulfment regime. <i>Acta Mechanica</i> , 0, , .	2.1	2
47	Flow control of weakly non-parallel flows: application to trailing vortices. <i>Journal of Fluid Mechanics</i> , 2017, 822, 342-363.	3.4	1
48	Variational Multiscale LES and Hybrid RANS/LES Parallel Simulation of Complex Unsteady Flows. <i>Lecture Notes in Computer Science</i> , 2008, , 465-478.	1.3	1
49	Simulation of Bluff-Body Flows Through a Hybrid RANS/VMS-LES Model. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009, , 429-440.	0.2	1
50	Stability analysis of the flow past miniature vortex generators in a Blasius boundary layer. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015, 15, 485-486.	0.2	0
51	A low-Reynolds-number actuator driven by instability: rotating or oscillating. <i>Nonlinear Dynamics</i> , 2021, 106, 2005.	5.2	0
52	A locally superconvergent scheme for the simulation of turbulent flows in complex geometries. , 2009, , 493-498.		0