

# Simone Zuccher

## List of Publications by Year in descending order

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27  
papers

435  
citations

840119

11  
h-index

713013

21  
g-index

27  
all docs

27  
docs citations

27  
times ranked

392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum vortex reconnections. <i>Physics of Fluids</i> , 2012, 24, .	1.6	101
2	Parabolic approach to optimal perturbations in compressible boundary layers. <i>Journal of Fluid Mechanics</i> , 2006, 556, 189.	1.4	42
3	Algebraic growth in a Blasius boundary layer: Nonlinear optimal disturbances. <i>European Journal of Mechanics, B/Fluids</i> , 2006, 25, 1-17.	1.2	38
4	Algebraic growth in a Blasius boundary layer: optimal and robust control by mean suction in the nonlinear regime. <i>Journal of Fluid Mechanics</i> , 2004, 513, 135-160.	1.4	37
5	Vortex reconnections in atomic condensates at finite temperature. <i>Physical Review A</i> , 2014, 90, .	1.0	34
6	Infrared thermography investigations in transitional supersonic boundary layers. <i>Experiments in Fluids</i> , 2007, 44, 145-157.	1.1	32
7	Helicity conservation under quantum reconnection of vortex rings. <i>Physical Review E</i> , 2015, 92, 061001.	0.8	25
8	Relaxation of twist helicity in the cascade process of linked quantum vortices. <i>Physical Review E</i> , 2017, 95, 053109.	0.8	21
9	Boundary-layer receptivity to external disturbances using multiple scales. <i>Meccanica</i> , 2014, 49, 441-467.	1.2	12
10	The phase-locked mean impulse response of a turbulent channel flow. <i>Physics of Fluids</i> , 2006, 18, 121702.	1.6	11
11	Quasi-Newton minimization for the $\langle \mathbf{m}   \mathbf{p} \rangle$ problem. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 122-131.	1.1	11
12	Optimal Disturbances in the Supersonic Boundary Layer Past a Sharp Cone. <i>AIAA Journal</i> , 2007, 45, 366-373.	1.5	10
13	Reliability of the time splitting Fourier method for singular solutions in quantum fluids. <i>Computer Physics Communications</i> , 2018, 222, 46-58.	3.0	10
14	Twist effects in quantum vortices and phase defects. <i>Fluid Dynamics Research</i> , 2018, 50, 011414.	0.6	9
15	Experimental investigations of the liquid-film instabilities forming on a wire under the action of a die. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 1586-1592.	1.1	7
16	The Inverse Power Method for the $\Delta p(x)$ -Laplacian Problem. <i>Journal of Scientific Computing</i> , 2015, 65, 698-714.	1.1	7
17	Optimal Disturbances in Compressible Boundary Layers - Complete Energy Norm Analysis. , 2005, , .		5
18	A novel measurement technique for the study of wire coating instabilities. <i>Experiments in Fluids</i> , 2005, 39, 694-702.	1.1	4

#	ARTICLE	IF	CITATIONS
19	Post-Stall Motions Evolving Toward Chaos. <i>Journal of Aircraft</i> , 2007, 44, 833-844.	1.7	4
20	An experimental study of the liquid film on a vertical wire under the action of an impinging annular jet. <i>Experiments in Fluids</i> , 2009, 46, 309-322.	1.1	4
21	INFFTM: Fast evaluation of 3d Fourier series in MATLAB with an application to quantum vortex reconnections. <i>Computer Physics Communications</i> , 2017, 213, 197-207.	3.0	4
22	Momentum of vortex tangles by weighted area information. <i>Physical Review E</i> , 2019, 100, 011101.	0.8	3
23	Accurate numerical determination of a self-preserving quantum vortex ring. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 015301.	0.7	2
24	Cubic nonlinear Schrödinger equation with vorticity. <i>New Journal of Physics</i> , 2008, 10, 123020.	1.2	1
25	Creation of quantum knots and links driven by minimal surfaces. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	1
26	Optimal Disturbances in the Supersonic Boundary Layer Past a Sharp Cone. , 2006, , .		0
27	Time-Dependent Optimal Perturbations for the Algebraic Instability in the Nonlinear Regime. , 2002, , .		0