

# J Sesterhenn

## List of Publications by Year in descending order

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25  
papers

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citations

933264

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h-index

752573

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g-index

29  
all docs

29  
docs citations

29  
times ranked

520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adjoint-based optimisation of detonation initiation by a focusing shock wave. <i>Shock Waves</i> , 2021, 31, 789.	1.0	2
2	Volcanic Vortex Rings: Axial Dynamics, Acoustic Features, and Their Link to Vent Diameter and Supersonic Jet Flow. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092899.	1.5	9
3	Numerical investigation of detonation initiation by a focusing shock wave. <i>Shock Waves</i> , 2020, , 1.	1.0	3
4	Acoustic analysis of starting jets in an anechoic chamber: implications for volcano monitoring. <i>Scientific Reports</i> , 2020, 10, 13576.	1.6	10
5	Effects of Wall Curvature on the Dynamics of an Impinging Jet and Resulting Heat Transfer. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2019, , 355-366.	0.2	2
6	Quantifying the contact electrification of aerosolized insulating particles. <i>Powder Technology</i> , 2018, 332, 106-113.	2.1	6
7	The Shifted Proper Orthogonal Decomposition: A Mode Decomposition for Multiple Transport Phenomena. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A1322-A1344.	1.3	90
8	Time-series analysis of fissure-fed multi-vent activity: a snapshot from the July 2014 eruption of Etna volcano (Italy). <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	16
9	A compact shock-focusing geometry for detonation initiation: Experiments and adjoint-based variational data assimilation. <i>Combustion and Flame</i> , 2017, 183, 144-156.	2.8	42
10	The dynamics of volcanic jets: Temporal evolution of particles exit velocity from shock tube experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6031-6045.	1.4	30
11	Bumblebee Flight in Heavy Turbulence. <i>Physical Review Letters</i> , 2016, 116, 028103.	2.9	49
12	An energy conserving well-balanced scheme for the shallow water equations. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
13	Detached-Eddy Simulation of Separated Wake Flow Around Complex Helicopter Fuselage Configuration. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2015, , 131-140.	0.2	2
14	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. <i>Analyst</i> , 2014, 139, 1856.	1.7	45
15	High-speed imaging, acoustic features, and aeroacoustic computations of jet noise from Strombolian (and Vulcanian) explosions. <i>Geophysical Research Letters</i> , 2014, 41, 3096-3102.	1.5	34
16	Adjoint-based reconstruction of an entropy source by discrete temperature measurements. <i>International Journal of Computational Science and Engineering</i> , 2014, 9, 526.	0.4	0
17	Optimal distribution of porous media to reduce trailing edge noise. <i>Computers and Fluids</i> , 2013, 78, 41-53.	1.3	25
18	Adjoint based noise minimization of a round supersonic jet. <i>Journal of Physics: Conference Series</i> , 2011, 318, 092005.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Reconstruction of an Entropy Source by Temperature Measurements at Discrete Points with Adjoint Methods. , 2011, , .		0
20	Calculation of Shocks with Skew Symmetric Schemes. , 2011, , .		2
21	Iterative optimization based on an objective functional in frequency-space with application to jet-noise cancellation. Journal of Computational Physics, 2011, 230, 6075-6098.	1.9	12
22	Fully Conservative, Skew Symmetric and Compact Finite Difference Schemes. , 2009, , .		2
23	Large Eddy Simulation of Turbulent Reacting Shear Layers Including Finite-Rate Chemistry and Detailed Diffusion Processes. Flow, Turbulence and Combustion, 2008, 80, 81-105.	1.4	2
24	Numerical simulation of supersonic jet noise. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10703-10704.	0.2	4
25	On a method for direct numerical simulation of shear layer/compression wave interaction for aeroacoustic investigations. Computers and Fluids, 2008, 37, 463-474.	1.3	11