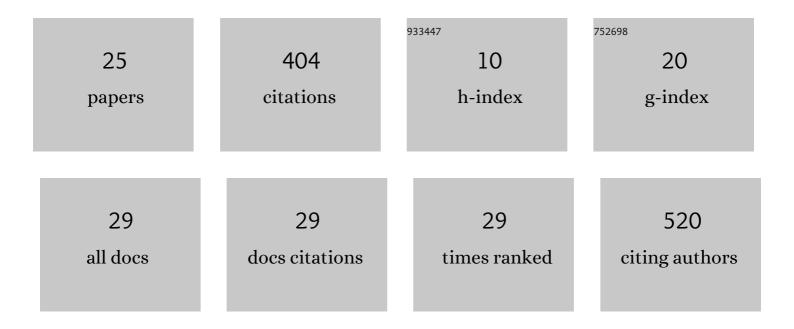
J Sesterhenn

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Adjoint-based optimisation of detonation initiation by a focusing shock wave. Shock Waves, 2021, 31, 789.	1.9	2
2	Volcanic Vortex Rings: Axial Dynamics, Acoustic Features, and Their Link to Vent Diameter and Supersonic Jet Flow. Geophysical Research Letters, 2021, 48, e2021GL092899.	4.0	9
3	Numerical investigation of detonation initiation by a focusing shockÂwave. Shock Waves, 2020, , 1.	1.9	3
4	Acoustic analysis of starting jets in an anechoic chamber: implications for volcano monitoring. Scientific Reports, 2020, 10, 13576.	3.3	10
5	Effects of Wall Curvature on the Dynamics of an Impinging Jet and Resulting Heat Transfer. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 355-366.	0.3	2
6	Quantifying the contact electrification of aerosolized insulating particles. Powder Technology, 2018, 332, 106-113.	4.2	6
7	The Shifted Proper Orthogonal Decomposition: A Mode Decomposition for Multiple Transport Phenomena. SIAM Journal of Scientific Computing, 2018, 40, A1322-A1344.	2.8	90
8	Time-series analysis of fissure-fed multi-vent activity: a snapshot from the July 2014 eruption of Etna volcano (Italy). Bulletin of Volcanology, 2017, 79, 1.	3.0	16
9	A compact shock-focusing geometry for detonation initiation: Experiments and adjoint-based variational data assimilation. Combustion and Flame, 2017, 183, 144-156.	5.2	42
10	The dynamics of volcanic jets: Temporal evolution of particles exit velocity from shockâ€ŧube experiments. Journal of Geophysical Research: Solid Earth, 2017, 122, 6031-6045.	3.4	30
11	Bumblebee Flight in Heavy Turbulence. Physical Review Letters, 2016, 116, 028103.	7.8	49
12	An energy conserving well-balanced scheme for the shallow water equations. AIP Conference Proceedings, 2015, , .	0.4	0
13	Detached-Eddy Simulation of Separated WakeÂFlow Around Complex Helicopter Fuselage Configuration. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 131-140.	0.3	2
14	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. Analyst, The, 2014, 139, 1856.	3.5	45
15	High-speed imaging, acoustic features, and aeroacoustic computations of jet noise from Strombolian (and Vulcanian) explosions. Geophysical Research Letters, 2014, 41, 3096-3102.	4.0	34
16	Adjoint-based reconstruction of an entropy source by discrete temperature measurements. International Journal of Computational Science and Engineering, 2014, 9, 526.	0.5	0
17	Optimal distribution of porous media to reduce trailing edge noise. Computers and Fluids, 2013, 78, 41-53.	2.5	25
18	Adjoint based noise minimization of a round supersonic jet. Journal of Physics: Conference Series, 2011, 318, 092005.	0.4	0

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#	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.	3.8	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.	2.6	2
24	Numerical simulation of supersonic jetâ€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.	2.5	11