

Ann Karagozian

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,050
citations

279701

23
h-index

265120

42
g-index

50
all docs

50
docs citations

50
times ranked

777
citing authors

#	ARTICLE	IF	CITATIONS
1	Transverse jets and their control. <i>Progress in Energy and Combustion Science</i> , 2010, 36, 531-553.	15.8	318
2	On the formation of the counter-rotating vortex pair in transverse jets. <i>Journal of Fluid Mechanics</i> , 2001, 446, 347-373.	1.4	233
3	The actively controlled jet in crossflow. <i>Journal of Fluid Mechanics</i> , 2002, 452, 325-335.	1.4	152
4	Transverse-jet shear-layer instabilities. Part 1. Experimental studies. <i>Journal of Fluid Mechanics</i> , 2007, 593, 93-129.	1.4	138
5	The jet in crossflow. <i>Physics of Fluids</i> , 2014, 26, .	1.6	127
6	An analytical model for the vorticity associated with a transverse jet. <i>AIAA Journal</i> , 1986, 24, 429-436.	1.5	109
7	Study of a Diffusion Flame in a Stretched Vortex. <i>Combustion Science and Technology</i> , 1986, 45, 65-84.	1.2	104
8	Optimization of Controlled Jets in Crossflow. <i>AIAA Journal</i> , 2006, 44, 1292-1298.	1.5	72
9	Numerical resolution of pulsating detonation waves. <i>Combustion Theory and Modelling</i> , 2000, 4, 217-240.	1.0	61
10	Structural and stability characteristics of jets in crossflow. <i>Journal of Fluid Mechanics</i> , 2014, 760, 342-367.	1.4	59
11	Transition to global instability in transverse-jet shear layers. <i>Journal of Fluid Mechanics</i> , 2010, 661, 294-315.	1.4	56
12	Mixing enhancement in a lobed injector. <i>Physics of Fluids</i> , 1997, 9, 667-678.	1.6	52
13	Transverse-jet shear-layer instabilities. Part 2. Linear analysis for large jet-to-crossflow velocity ratio. <i>Journal of Fluid Mechanics</i> , 2008, 602, 383-401.	1.4	46
14	Strategic Control of Transverse Jet Shear Layer Instabilities. <i>AIAA Journal</i> , 2010, 48, 2145-2156.	1.5	43
15	Transverse jet mixing characteristics. <i>Journal of Fluid Mechanics</i> , 2016, 790, 237-274.	1.4	43
16	Shear layer instabilities in low-density transverse jets. <i>Experiments in Fluids</i> , 2012, 53, 783-801.	1.1	36
17	Complexity reduction of collisional-radiative kinetics for atomic plasma. <i>Physics of Plasmas</i> , 2013, 20, 123304.	0.7	36
18	Local stability analysis of an inviscid transverse jet. <i>Journal of Fluid Mechanics</i> , 2007, 581, 401-418.	1.4	33

#	ARTICLE	IF	CITATIONS
19	Periodic partial extinction in acoustically coupled fuel droplet combustion. <i>Combustion and Flame</i> , 2018, 189, 46-61.	2.8	32
20	Numerical Simulation of Pulse Detonation Engine Phenomena. <i>Journal of Scientific Computing</i> , 2003, 19, 201-224.	1.1	29
21	Acoustic excitation of droplet combustion in microgravity and normal gravity. <i>Combustion and Flame</i> , 2006, 144, 299-317.	2.8	25
22	Droplet combustion in the presence of acoustic excitation. <i>Combustion and Flame</i> , 2014, 161, 1604-1619.	2.8	24
23	Influence of the velocity field on scalar transport in gaseous transverse jets. <i>Journal of Fluid Mechanics</i> , 2018, 834, 173-219.	1.4	23
24	Numerical simulations of a lobed fuel injector. <i>Physics of Fluids</i> , 1998, 10, 2950-2964.	1.6	20
25	Pulse-Detonation-Engine Simulations with Alternative Geometries and Reaction Kinetics. <i>Journal of Propulsion and Power</i> , 2006, 22, 852-861.	1.3	19
26	Comparison of artificial-dissipation and solution-filtering stabilization schemes for time-accurate simulations. <i>Journal of Computational Physics</i> , 2018, 375, 1424-1450.	1.9	16
27	On the origins of transverse jet shear layer instability transition. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	1.4	16
28	Ignition, Burning and Extinction of a Strained Fuel Strip with Complex Kinetics. <i>Combustion Science and Technology</i> , 1998, 131, 251-276.	1.2	15
29	Laminar Microjet Diffusion Flame Response to Transverse Acoustic Excitation. <i>Combustion Science and Technology</i> , 2020, 192, 1292-1319.	1.2	15
30	Stability of Flame-Shock Coupling in Detonation Waves: 1D Dynamics. <i>Combustion Science and Technology</i> , 2012, 184, 1502-1525.	1.2	12
31	Effects of Inert and Energetic Nanoparticles on Burning Liquid Ethanol Droplets. <i>Combustion Science and Technology</i> , 2019, 191, 1079-1100.	1.2	12
32	Acoustically Forced Droplet Combustion of Liquid Fuel with Reactive Aluminum Nanoparticulates. <i>Combustion Science and Technology</i> , 2020, 192, 761-785.	1.2	10
33	Cryogenic High-Pressure Shear-Coaxial Jets Exposed to Transverse Acoustic Forcing. , 2012, , .		8
34	Acoustically Coupled Combustion of Liquid Fuel Droplets. <i>Applied Mechanics Reviews</i> , 2016, 68, .	4.5	8
35	Complexity reduction effects on transient, atomic plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 216, 47-55.	1.1	7
36	Transverse jet lock-in and quasiperiodicity. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	7

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37	Effects of Axisymmetric Square-Wave Excitation on Transverse Jet Structure and Mixing. AIAA Journal, 2019, 57, 1862-1876.	1.5	6
38	Effects of Sinusoidal Excitation on Transverse Jet Dynamics, Structure, and Mixing. AIAA Journal, 2020, 58, 3889-3901.	1.5	6
39	Balancing aspects of numerical dissipation, dispersion, and aliasing in time-accurate simulations. International Journal for Numerical Methods in Fluids, 2020, 92, 1506-1527.	0.9	6
40	Effect of tabs on transverse jet instabilities, structure, vorticity dynamics and mixing. Journal of Fluid Mechanics, 2021, 918, .	1.4	5
41	Magnetohydrodynamic Augmentation of Pulse Detonation Rocket Engines. Journal of Propulsion and Power, 2012, 28, 146-159.	1.3	4
42	Effects of controlled vortex generation and interactions in transverse jets. Physical Review Fluids, 2022, 7, .	1.0	3
43	Strategic Control of Transverse Jet Flows. , 2008, , .		1
44	Exploration of Asymmetric Forcing on Mixing and Structural Characteristics for Transverse Jets. , 2019, , .		1
45	Turbulent Nonpremixed Jet Flames under Transverse Acoustic Forcing. , 2020, , .		1
46	Asymmetric forcing of convectively unstable transverse jets. Physical Review Fluids, 2022, 7, .	1.0	1
47	Acoustically Driven Droplet Combustion with Alternative Liquid Fuels. , 2008, , .		0
48	Structural and Stability Characteristics of Jets in Crossflow. , 2014, , .		0
49	Frank Marble, 1918-2014: Tribute to an aerospace giant. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5550-5551.	3.3	0
50	Structural and stability characteristics of jets in crossflow - CORRIGENDUM. Journal of Fluid Mechanics, 2020, 890, .	1.4	0