

Ann Karagozian

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,050
citations

279798

23
h-index

265206

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. | 31.2 | 318 |
| 2 | On the formation of the counter-rotating vortex pair in transverse jets. <i>Journal of Fluid Mechanics</i> , 2001, 446, 347-373. | 3.4 | 233 |
| 3 | The actively controlled jet in crossflow. <i>Journal of Fluid Mechanics</i> , 2002, 452, 325-335. | 3.4 | 152 |
| 4 | Transverse-jet shear-layer instabilities. Part 1. Experimental studies. <i>Journal of Fluid Mechanics</i> , 2007, 593, 93-129. | 3.4 | 138 |
| 5 | The jet in crossflow. <i>Physics of Fluids</i> , 2014, 26, . | 4.0 | 127 |
| 6 | An analytical model for the vorticity associated with a transverse jet. <i>AIAA Journal</i> , 1986, 24, 429-436. | 2.6 | 109 |
| 7 | Study of a Diffusion Flame in a Stretched Vortex. <i>Combustion Science and Technology</i> , 1986, 45, 65-84. | 2.3 | 104 |
| 8 | Optimization of Controlled Jets in Crossflow. <i>AIAA Journal</i> , 2006, 44, 1292-1298. | 2.6 | 72 |
| 9 | Numerical resolution of pulsating detonation waves. <i>Combustion Theory and Modelling</i> , 2000, 4, 217-240. | 1.9 | 61 |
| 10 | Structural and stability characteristics of jets in crossflow. <i>Journal of Fluid Mechanics</i> , 2014, 760, 342-367. | 3.4 | 59 |
| 11 | Transition to global instability in transverse-jet shear layers. <i>Journal of Fluid Mechanics</i> , 2010, 661, 294-315. | 3.4 | 56 |
| 12 | Mixing enhancement in a lobed injector. <i>Physics of Fluids</i> , 1997, 9, 667-678. | 4.0 | 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. | 3.4 | 46 |
| 14 | Strategic Control of Transverse Jet Shear Layer Instabilities. <i>AIAA Journal</i> , 2010, 48, 2145-2156. | 2.6 | 43 |
| 15 | Transverse jet mixing characteristics. <i>Journal of Fluid Mechanics</i> , 2016, 790, 237-274. | 3.4 | 43 |
| 16 | Shear layer instabilities in low-density transverse jets. <i>Experiments in Fluids</i> , 2012, 53, 783-801. | 2.4 | 36 |
| 17 | Complexity reduction of collisional-radiative kinetics for atomic plasma. <i>Physics of Plasmas</i> , 2013, 20, 123304. | 1.9 | 36 |
| 18 | Local stability analysis of an inviscid transverse jet. <i>Journal of Fluid Mechanics</i> , 2007, 581, 401-418. | 3.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Periodic partial extinction in acoustically coupled fuel droplet combustion. <i>Combustion and Flame</i> , 2018, 189, 46-61. | 5.2 | 32 |
| 20 | Numerical Simulation of Pulse Detonation Engine Phenomena. <i>Journal of Scientific Computing</i> , 2003, 19, 201-224. | 2.3 | 29 |
| 21 | Acoustic excitation of droplet combustion in microgravity and normal gravity. <i>Combustion and Flame</i> , 2006, 144, 299-317. | 5.2 | 25 |
| 22 | Droplet combustion in the presence of acoustic excitation. <i>Combustion and Flame</i> , 2014, 161, 1604-1619. | 5.2 | 24 |
| 23 | Influence of the velocity field on scalar transport in gaseous transverse jets. <i>Journal of Fluid Mechanics</i> , 2018, 834, 173-219. | 3.4 | 23 |
| 24 | Numerical simulations of a lobed fuel injector. <i>Physics of Fluids</i> , 1998, 10, 2950-2964. | 4.0 | 20 |
| 25 | Pulse-Detonation-Engine Simulations with Alternative Geometries and Reaction Kinetics. <i>Journal of Propulsion and Power</i> , 2006, 22, 852-861. | 2.2 | 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. | 3.8 | 16 |
| 27 | On the origins of transverse jet shear layer instability transition. <i>Journal of Fluid Mechanics</i> , 2020, 890, . | 3.4 | 16 |
| 28 | Ignition, Burning and Extinction of a Strained Fuel Strip with Complex Kinetics. <i>Combustion Science and Technology</i> , 1998, 131, 251-276. | 2.3 | 15 |
| 29 | Laminar Microjet Diffusion Flame Response to Transverse Acoustic Excitation. <i>Combustion Science and Technology</i> , 2020, 192, 1292-1319. | 2.3 | 15 |
| 30 | Stability of Flame-Shock Coupling in Detonation Waves: 1D Dynamics. <i>Combustion Science and Technology</i> , 2012, 184, 1502-1525. | 2.3 | 12 |
| 31 | Effects of Inert and Energetic Nanoparticles on Burning Liquid Ethanol Droplets. <i>Combustion Science and Technology</i> , 2019, 191, 1079-1100. | 2.3 | 12 |
| 32 | Acoustically Forced Droplet Combustion of Liquid Fuel with Reactive Aluminum Nanoparticulates. <i>Combustion Science and Technology</i> , 2020, 192, 761-785. | 2.3 | 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, . | 10.1 | 8 |
| 35 | Complexity reduction effects on transient, atomic plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 216, 47-55. | 2.3 | 7 |
| 36 | Transverse jet lock-in and quasiperiodicity. <i>Physical Review Fluids</i> , 2020, 5, . | 2.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Effects of Axisymmetric Square-Wave Excitation on Transverse Jet Structure and Mixing. AIAA Journal, 2019, 57, 1862-1876. | 2.6 | 6 |
| 38 | Effects of Sinusoidal Excitation on Transverse Jet Dynamics, Structure, and Mixing. AIAA Journal, 2020, 58, 3889-3901. | 2.6 | 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. | 1.6 | 6 |
| 40 | Effect of tabs on transverse jet instabilities, structure, vorticity dynamics and mixing. Journal of Fluid Mechanics, 2021, 918, . | 3.4 | 5 |
| 41 | Magnetohydrodynamic Augmentation of Pulse Detonation Rocket Engines. Journal of Propulsion and Power, 2012, 28, 146-159. | 2.2 | 4 |
| 42 | Effects of controlled vortex generation and interactions in transverse jets. Physical Review Fluids, 2022, 7, . | 2.5 | 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, . | 2.5 | 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. | 7.1 | 0 |
| 50 | Structural and stability characteristics of jets in crossflow - CORRIGENDUM. Journal of Fluid Mechanics, 2020, 890, . | 3.4 | 0 |