

Miguel Alfonso Mendez

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

397
citations

933410

10
h-index

888047

17
g-index

24
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24
docs citations

24
times ranked

288
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | POD-based background removal for particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2017, 80, 181-192. | 2.7 | 102 |
| 2 | Multi-scale proper orthogonal decomposition of complex fluid flows. <i>Journal of Fluid Mechanics</i> , 2019, 870, 988-1036. | 3.4 | 93 |
| 3 | Low Kapitza falling liquid films. <i>Chemical Engineering Science</i> , 2017, 170, 122-138. | 3.8 | 24 |
| 4 | Multiscale modal analysis of an oscillating impinging gas jet. <i>Experimental Thermal and Fluid Science</i> , 2018, 91, 256-276. | 2.7 | 24 |
| 5 | Multiscale proper orthogonal decomposition (mPOD) of TR-PIV data—a case study on stationary and transient cylinder wake flows. <i>Measurement Science and Technology</i> , 2020, 31, 094014. | 2.6 | 23 |
| 6 | Calibration of a hypoplastic model using genetic algorithms. <i>Acta Geotechnica</i> , 2021, 16, 2031-2047. | 5.7 | 23 |
| 7 | Experimental analysis of the stability of the jet wiping process, part II: Multiscale modal analysis of the gas jet-liquid film interaction. <i>Experimental Thermal and Fluid Science</i> , 2019, 106, 48-67. | 2.7 | 15 |
| 8 | On the dynamics of jet wiping: Numerical simulations and modal analysis. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 14 |
| 9 | Spectral and modal analysis of a cavitating flow through an orifice. <i>Experimental Thermal and Fluid Science</i> , 2021, 121, 110251. | 2.7 | 13 |
| 10 | MODULO: A software for Multiscale Proper Orthogonal Decomposition of data. <i>SoftwareX</i> , 2020, 12, 100622. | 2.6 | 11 |
| 11 | Measurement of Liquid Film Thickness via Light Absorption and Laser Tomography. <i>EPJ Web of Conferences</i> , 2016, 114, 02072. | 0.3 | 10 |
| 12 | Artificial neural networks modeling of wall pressure spectra beneath turbulent boundary layers. <i>Physics of Fluids</i> , 2022, 34, 035119. | 4.0 | 10 |
| 13 | A meshless method to compute pressure fields from image velocimetry. <i>Measurement Science and Technology</i> , 2022, 33, 094005. | 2.6 | 9 |
| 14 | An experimental analysis of the stability of the jet wiping process: Part I —“ Characterization of the coating uniformity. <i>Experimental Thermal and Fluid Science</i> , 2019, 103, 51-65. | 2.7 | 8 |
| 15 | Dynamics of the jet wiping process via integral models. <i>Journal of Fluid Mechanics</i> , 2021, 911, . | 3.4 | 7 |
| 16 | Multi-scale proper orthogonal decomposition (mPOD). <i>AIP Conference Proceedings</i> , 2018, , . | 0.4 | 6 |
| 17 | Koopman operator for Burgers's equation. <i>Physical Review Fluids</i> , 2021, 6, . | 2.5 | 4 |
| 18 | Fluidic Vectoring of a Planar Incompressible Jet Flow. <i>EPJ Web of Conferences</i> , 2018, 180, 02065. | 0.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Experimental Characterization of the Jet Wiping Process. EPJ Web of Conferences, 2018, 180, 02064. | 0.3 | 0 |
| 20 | Probabilistic evaluation of streamline topologies for the detection of preferential flow configurations in PIV applications. Experiments in Fluids, 2020, 61, 1. | 2.4 | 0 |
| 21 | Multiscale Modal Analysis of a Plasma Jet: Coherent Structures and their Observability. , 2021, , . | | 0 |