

Semih M A-lÅ§men

List of Publications by Year in descending order

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66
papers

522
citations

686830

13
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676716

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g-index

66
all docs

66
docs citations

66
times ranked

284
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental study of a three-dimensional pressure-driven turbulent boundary layer. <i>Journal of Fluid Mechanics</i> , 1995, 290, 225-262.	1.4	94
2	High-intensity rocket noise: Nonlinear propagation, atmospheric absorption, and characterization. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 578-591.	0.5	49
3	Influence of Wing Shapes on Surface Pressure Fluctuations at Wing-Body Junctions. <i>AIAA Journal</i> , 1994, 32, 6-15.	1.5	48
4	A five-velocity-component laser-Doppler velocimeter for measurements of a three-dimensional turbulent boundary layer. <i>Measurement Science and Technology</i> , 1995, 6, 702-716.	1.4	33
5	Supersonic, variable-throat, blow-down wind tunnel control using genetic algorithms, neural networks, and gain scheduled PID. <i>Applied Intelligence</i> , 2008, 29, 79-89.	3.3	25
6	Some features of a turbulent wing-body junction vortical flow. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 980-993.	1.1	21
7	Soft computing applications on a SR-30 turbojet engine. <i>Fuzzy Sets and Systems</i> , 2006, 157, 3007-3024.	1.6	20
8	A miniature laser-Doppler velocimeter for simultaneous three-velocity-component measurements. <i>Measurement Science and Technology</i> , 2004, 15, 2075-2082.	1.4	17
9	Fiber-Optic Spark Delivery for Gas-Phase Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 1338-1343.	1.2	16
10	Evaluation of algebraic eddy-viscosity models in three-dimensional turbulent boundary-layer flows. <i>AIAA Journal</i> , 1993, 31, 1545-1554.	1.5	15
11	A spark-plug LDV probe for in-cylinder flow analysis of production IC engines. <i>Measurement Science and Technology</i> , 2005, 16, 2038-2047.	1.4	15
12	Miniature rainbow schlieren deflectometry system for quantitative measurements in microjets and flames. <i>Applied Optics</i> , 2007, 46, 2954.	2.1	14
13	Experimental study of a round jet impinging on a convex cylinder. <i>Measurement Science and Technology</i> , 2007, 18, 1800-1810.	1.4	14
14	Some Reynolds number effects on two- and three-dimensional turbulent boundary layers. <i>Experiments in Fluids</i> , 2001, 31, 219-228.	1.1	11
15	A miniature three-component LDV probe. <i>Measurement Science and Technology</i> , 2007, 18, 2014-2020.	1.4	11
16	Influence of Passive Flow-Control Devices on the Pressure Fluctuations at Wing-Body Junction Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007, 129, 1030-1037.	0.8	10
17	Octant analysis based structural relations for three-dimensional turbulent boundary layers. <i>Physics of Fluids</i> , 2006, 18, 025106.	1.6	9
18	Measurements of turbulent flow behind a wing-body junction. <i>AIAA Journal</i> , 1988, 26, 494-496.	1.5	8

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19	Spectral measurements and other features of separating turbulent flows. <i>AIAA Journal</i> , 1990, 28, 446-452.	1.5	8
20	Effects of counterflow jet on the performance of a generic rocket. <i>Acta Astronautica</i> , 2021, 182, 219-229.	1.7	8
21	Movable fiber probe for gas-phase laser-induced breakdown spectroscopy. <i>Applied Optics</i> , 2008, 47, C88.	2.1	7
22	Computational Analysis of Diffuser Performance for Subsonic Aerodynamic Research Laboratory Wind Tunnel. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2013, 7, 419-432.	1.5	7
23	Conceptual redesign of the B-1B bomber inlets for improved supersonic performance. <i>Aerospace Science and Technology</i> , 2015, 45, 476-483.	2.5	7
24	Characteristics of time-varying intracranial pressure on blood flow through cerebral artery: A fluid-structure interaction approach. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 111-121.	1.0	6
25	SR-30 turbojet engine real-time sensor health monitoring using neural networks, and Bayesian belief networks. <i>Applied Intelligence</i> , 2007, 26, 251-265.	3.3	5
26	Numerical and Experimental Analysis of Projectile Nose Geometry. <i>Journal of Spacecraft and Rockets</i> , 2015, 52, 1515-1519.	1.3	5
27	A numerical analysis of projectile nose geometry including sliding friction for penetration into geological targets. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 284-304.	1.1	5
28	Study of unsteadiness of shock wave boundary layer interaction using Rainbow Schlieren Deflectometry and Proper Orthogonal Decomposition. , 2013, , .		4
29	Comparative Analysis of Velocity Decomposition Methods for Internal Combustion Engines. <i>Open Journal of Fluid Dynamics</i> , 2012, 02, 70-90.	0.3	4
30	Experimental transport-rate budgets in complex 3-D turbulent flow near a wing/body junction. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 874-890.	1.1	3
31	Minimum drag and heating 0.3-caliber projectile nose geometry. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 1990-2000.	1.1	3
32	Computational investigation of axi-symmetric plume induced flow separation. <i>Acta Astronautica</i> , 2019, 160, 106-115.	1.7	3
33	Experimental Measurement of Density, Pressure and Temperature Fields in a Supersonic Free Jet Using Rainbow Schlieren Deflectometry. , 2008, , .		2
34	Experimental study of co-annular jet subjected to transverse disturbances. <i>Experimental Thermal and Fluid Science</i> , 2015, 66, 53-62.	1.5	2
35	Frequency analysis of oblique shock wave boundary layer interaction. , 2017, , .		2
36	Full-Field Pressure and Strain Measurement Technique Using a Dual-Layer Luminescent Coating. <i>AIAA Journal</i> , 2021, 59, 1517-1527.	1.5	2

#	ARTICLE	IF	CITATIONS
37	A Testbed for Evaluating Soft Computing Technologies for Rocket Engine Control. , 2004, , .		1
38	Jet-Engine Health Monitoring and Operation Using Fuzzy-Logic Controllers and Bayesian Belief Network. , 2006, , .		1
39	Model Diagnostics of Jet Engines. , 2006, , .		1
40	Experimental Investigation of Shock Wave Attenuation/Control Using a Counterflow Jet. , 2008, , .		1
41	On the Penetrator Nose Drag Measurements. , 2010, , .		1
42	Effect of Geometric Modifications on the Flow Field of a Turret. , 2012, , .		1
43	A borescopic laser Doppler velocimetry probe. Measurement Science and Technology, 2014, 25, 075206.	1.4	1
44	An improved instantaneous laser Doppler velocity system. Measurement Science and Technology, 2016, 27, 025302.	1.4	1
45	Flow Characteristics of Axisymmetric Cavity. , 2017, , .		1
46	Influence of wing shapes on the surface pressure fluctuations of a wing-body junction. , 1992, , .		0
47	Spark-Plug LDV Probe for In-Cylinder Flow Analysis of Production IC Engines. , 2005, , .		0
48	A miniature 3-simultaneous velocity component LDV probe. , 2007, , .		0
49	Experimental and Numerical Investigation of Shock Attenuation Using Supersonic Counter Flow Jets. , 2008, , .		0
50	Localized Flow Control Using Counterflow Jets in High Speed Flows. , 2009, , .		0
51	Measurement and Analysis of Unsteady Flows in IC Engines. , 2010, , .		0
52	Living Learning Labs: A Component of the University of Alabama's Engineering Math Advancement Program. , 2010, , .		0
53	Inquiry Based Engineering Labs Predict Student Success. , 2011, , .		0
54	Unsteady Flow Analysis in a Fired Briggs-Stratton Internal Combustion Engine. , 2011, , .		0

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55	Experimental Study of a Circular Jet Spreading Rate due to a Secondary Jet. , 2012, , .		0
56	Redesign of the B-1B Bomber Inlets for Improved Supersonic Performance. , 2014, , .		0
57	Interplanetary Nuclear Thermal Propulsion Shuttle. , 2014, , .		0
58	Design and Applications of a Sharp Focusing Schlieren System. , 2014, , .		0
59	Volumetric Three-Component Measurements of Air Jet Flows of Different Diffuser Designs. , 2015, , .		0
60	On the streamwise and normal vortices forming on plates with spanwise periodic cambering. Aerospace Science and Technology, 2016, 58, 453-466.	2.5	0
61	Three component LDV probe for AFRL-TGF for SWBLI Studies. , 2016, , .		0
62	Intake Flow Analysis of a Pulsed Detonation Engine. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	0
63	Suction effects on transitional bubbles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 0, , 095441002110086.	0.7	0
64	Laser Ignition and Laser Induced Breakdown Spectroscopy In Engines Using Hollow Core Fiber Delivery. , 2008, , .		0
65	Borescopic Laser Doppler Velocimetry Probe. , 2014, , .		0
66	Some Structural Features of Pressure-Driven Three-Dimensional Turbulent Boundary Layers from Experiments. ICASE/LaRC Interdisciplinary Series in Science and Engineering, 1999, , 223-243.	0.1	0