

Abhilash Suryan

List of Publications by Year in descending order

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65
papers

563
citations

687363

13
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713466

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g-index

69
all docs

69
docs citations

69
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Three dimensional numerical computations on the fast filling of a hydrogen tank under different conditions. International Journal of Hydrogen Energy, 2012, 37, 7600-7611.	7.1	77
2	Comparative study of turbulence models performance for refueling of compressed hydrogen tanks. International Journal of Hydrogen Energy, 2013, 38, 9562-9569.	7.1	56
3	Parametric study of supersonic film cooling in dual bell nozzle for an experimental air-kerosene engine. Aerospace Science and Technology, 2018, 78, 364-376.	4.8	33
4	Computational study on flow through truncated conical plug nozzle with base bleed. Propulsion and Power Research, 2019, 8, 108-120.	4.3	31
5	Numerical Analysis of Hypersonic Flow Past Blunt Bodies with Aerospikes. Journal of Spacecraft and Rockets, 2016, 53, 669-677.	1.9	26
6	Study of Conical Aerospoke Nozzles with Base-Bleed and Freestream Effects. Journal of Spacecraft and Rockets, 2019, 56, 990-1005.	1.9	26
7	Advancements in renewable energy transition in India: A review. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-31.	2.3	22
8	Computational study of performance characteristics for truncated conical aerospoke nozzles. Journal of Thermal Science, 2017, 26, 483-489.	1.9	20
9	Study on reduction in pressure losses in pipe bends using guide vanes. Journal of Visualization, 2019, 22, 795-807.	1.8	20
10	Combustion efficiency improvement for scramjet combustor with strut based flame stabilizer using passive techniques. International Journal of Hydrogen Energy, 2021, 46, 40054-40072.	7.1	18
11	Computational study on reducing flow asymmetry in over-expanded planar nozzle by incorporating double divergence. Aerospace Science and Technology, 2020, 100, 105790.	4.8	16
12	Numerical Simulation on Optimization of Pintle Base Shape in Planar Expansion-Deflection Nozzles. Journal of Spacecraft and Rockets, 2020, 57, 539-548.	1.9	15
13	Investigation of flow characteristics in supersonic combustion ramjet combustor toward improvement of combustion efficiency. International Journal of Energy Research, 2021, 45, 231-253.	4.5	15
14	Experimental investigations on impaction pin nozzles for inlet fogging system. Journal of Mechanical Science and Technology, 2011, 25, 839-845.	1.5	14
15	Buzz characteristics and separation bubble dynamics in supersonic intake. Aerospace Science and Technology, 2021, 115, 106795.	4.8	14
16	Experimental study on the inlet fogging system using two-fluid nozzles. Journal of Thermal Science, 2010, 19, 132-135.	1.9	13
17	Thermo-fluid dynamic analysis of wet compression process. Journal of Mechanical Science and Technology, 2016, 30, 5473-5483.	1.5	12
18	Comparative study of boundary layer control around an ordinary airfoil and a high lift airfoil with secondary blowing. Computers and Fluids, 2018, 164, 50-63.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis of Flowfield in Linear Plug Nozzle with Base Bleed. Journal of Spacecraft and Rockets, 2021, 58, 1786-1798.	1.9	11
20	Analysis of Battery Thermal Management System for Electric Vehicles using 1-Tetradecanol Phase Change Material. Sustainable Energy Technologies and Assessments, 2022, 51, 101943.	2.7	10
21	Selection of working fluids for solar organic Rankine cycle—A review. International Journal of Energy Research, 2022, 46, 20573-20599.	4.5	10
22	Numerical simulation of duct flow with fog droplets. Journal of Thermal Science, 2010, 19, 533-539.	1.9	9
23	Energy efficiency analysis of wet compression systems through thermo-fluid dynamic considerations. Journal of Cleaner Production, 2019, 214, 132-144.	9.3	9
24	Performance of ejector refrigeration cycle based on solar energy working with various refrigerants. Journal of Thermal Analysis and Calorimetry, 2020, 141, 301-312.	3.6	9
25	Computational Study of Hypersonic Flow Past Spiked Blunt Body Using RANS and DSMC Method. Procedia Technology, 2016, 25, 892-899.	1.1	7
26	Effects of flap on the reentry aerodynamics of a blunt cone in the supersonic flow. International Journal of Mechanical Sciences, 2020, 176, 105396.	6.7	7
27	Numerical study of flow through planar double divergent nozzles. AIP Conference Proceedings, 2019, , .	0.4	6
28	Trans-disciplinary Project Based Learning Models for Community Service. Procedia Computer Science, 2020, 172, 735-740.	2.0	6
29	Visualization of flow through planar double divergent nozzles by computational method. Journal of Visualization, 2021, 24, 711-732.	1.8	6
30	Numerical analysis on thermo-fluid dynamic behavior of hydrogen gas during fast high pressure filling. Journal of Mechanical Science and Technology, 2013, 27, 567-573.	1.5	5
31	Wind power resource assessment and wind-hydrogen generation potential: a case study. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	4
32	Computational study on the influence of number of threads on the performance of single screw pump at high angular velocities. Journal of Thermal Science, 2017, 26, 54-59.	1.9	3
33	Investigation on the effect of baffle position on sloshing in tanks. AIP Conference Proceedings, 2019, , .	0.4	3
34	Numerical Simulation of the Filling-Up Process of a Hydrogen Fuel Tank for Vehicular Applications. , 2011, , .		2
35	Computational investigation on the flow characteristics in beam dyeing process. Journal of the Textile Institute, 2020, 111, 434-446.	1.9	2
36	Computational investigation of cooling effectiveness for film cooled dual-bell exhaust nozzle for LO2/LH2 liquid rocket engines. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	2

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37	Prediction and visualization of supersonic nozzle flows using OpenFOAM. Journal of Visualization, 2022, 25, 1227-1247.	1.8	2
38	Mass flow prediction of the coriolis meter using CO continuous beam elements. Journal of Thermal Science, 2015, 24, 398-402.	1.9	1
39	Disruptions in Engineering Education: Perceptions of Mid-Career Academicians. Procedia Computer Science, 2020, 172, 797-802.	2.0	1
40	Computational Study on the Flow Characteristics in a Film Cooled Dual-Bell Nozzle. Lecture Notes in Mechanical Engineering, 2021, , 225-232.	0.4	1
41	Visualization of Hysteresis Phenomenon of Shock Waves in Supersonic Internal Flow. Journal of the Korean Society of Visualization, 2010, 8, 31-39.	0.1	1
42	STUDY OF HYPERSONIC FLOW PAST SPIKED BLUNT BODY USING DIRECT SIMULATION MONTE CARLO METHOD. , 0, , .		1
43	A Study on the Charge-Discharge Cycle of a Compressed Hydrogen Tank for Automobiles. Green Energy and Technology, 2018, , 807-818.	0.6	1
44	A Numerical Study on Planar Nozzles with Different Divergence Angles. Lecture Notes in Mechanical Engineering, 2020, , 133-146.	0.4	1
45	Investigation of optimal water utilization for water spray cooled photovoltaic panel: A three-dimensional computational study. Sustainable Energy Technologies and Assessments, 2022, 51, 101975.	2.7	1
46	Transdisciplinary learning exercise on post occupancy evaluation and retrofitting of built spaces. Environment, Development and Sustainability, 0, , .	5.0	1
47	Thermo-Fluid Dynamic Behavior of Water Droplets Injected Into Air Stream. , 2011, , .		0
48	Thermo-Fluid Dynamic Analysis on the Compression Process of Liquid-Gas Two-Phase. , 2016, , .		0
49	Computational Study on the Design for Fluid Flow in High Angular Velocity Screw Pumps. Green Energy and Technology, 2018, , 267-279.	0.6	0
50	Performance Analysis of Ceramic Composite Thermal Protection System Tiles. Green Energy and Technology, 2018, , 557-580.	0.6	0
51	Study of flow characteristics of supersonic flow through pipe bends. AIP Conference Proceedings, 2019, , .	0.4	0
52	Comparison of Flow Features Inside a Plain Orifice Injector for Different Length-to-Diameter Ratios. Lecture Notes in Mechanical Engineering, 2021, , 43-49.	0.4	0
53	A Study on the Flow Physics of Altitude Adaptive Nozzles. , 0, , .		0
54	Revision of Undergraduate Engineering Curriculum with Emphasis on Project-Based Teaching Learning Approach - Case Study of KTU. Journal of Engineering Education Transformations, 2021, 34, 7.	0.4	0

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55	Transforming Kerala-Role of University in Building Entrepreneurship. Journal of Engineering Education Transformations, 2016, 29, 118.	0.4	0
56	Theoretical and Computational Studies on Compression Process of Gas with Water Droplets. , 0, , .		0
57	Thermo-Fluid Dynamics of the Effects of Water Spray on Air Compression Process. , 2017, , .		0
58	Computational Study on Aerodynamic and Thermal Characteristics of a Hot Jet in Parallel Flow. Open Journal of Fluid Dynamics, 2017, 07, 348-358.	0.5	0
59	Analysis of Coriolis Effect in a Curved Pipe Conveying Hydrogen Using Timoshenko Beam Element. Green Energy and Technology, 2018, , 147-158.	0.6	0
60	Thermodynamic Analysis of Inlet Air Cooling System for a Centrifugal Compressor. Green Energy and Technology, 2018, , 795-805.	0.6	0
61	Flow Characteristics of Confined G-CO ₂ and S-CO ₂ Jets. Lecture Notes in Mechanical Engineering, 2020, , 281-295.	0.4	0
62	Estimation of Shear-Induced Blood Damage in Artificial Heart Valve Components. Lecture Notes in Mechanical Engineering, 2020, , 447-465.	0.4	0
63	Numerical Investigation on Flow Separation Characteristics of Truncated Ideal Contour Nozzles. Lecture Notes in Mechanical Engineering, 2020, , 365-377.	0.4	0
64	Experimental Study on Temperature Profile Within a Compressed Air Tank. Lecture Notes in Mechanical Engineering, 2020, , 173-187.	0.4	0
65	Pseudo Shock Wave in a Slotted Duct of Constant Area. Lecture Notes in Mechanical Engineering, 2020, , 341-352.	0.4	0