

Shahrir Abdullah

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

1,269
citations

430442

18
h-index

414034

32
g-index

103
all docs

103
docs citations

103
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive heat transfer enhancement review in corrugation. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 22-38.	1.5	128
2	Numerical Study of the Enhancement of Heat Transfer for Hybrid CuO-Cu Nanofluids Flowing in a Circular Pipe. <i>Journal of Oleo Science</i> , 2013, 62, 533-539.	0.6	77
3	Heat transfer enhancement in three-start spirally corrugated tube: Experimental and numerical study. <i>Chemical Engineering Science</i> , 2015, 134, 746-757.	1.9	68
4	Slip MHD liquid flow and heat transfer over non-linear permeable stretching surface with chemical reaction. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3214-3225.	2.5	67
5	A review of combustion-driven thermoelectric (TE) and thermophotovoltaic (TPV) power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 572-584.	8.2	66
6	Simulation of natural convection heat transfer in an enclosure by the lattice-Boltzmann method. <i>Computers and Fluids</i> , 2011, 44, 162-168.	1.3	54
7	Effects of Viscous Dissipation on the Slip MHD Flow and Heat Transfer past a Permeable Surface with Convective Boundary Conditions. <i>Energies</i> , 2011, 4, 2273-2294.	1.6	41
8	Heat transfer enhancement in two-start spirally corrugated tube. <i>AEJ - Alexandria Engineering Journal</i> , 2015, 54, 415-422.	3.4	40
9	Crashworthiness design of vehicle side door beams under low-speed pole side impacts. <i>Thin-Walled Structures</i> , 2013, 67, 25-33.	2.7	39
10	Design consideration of low temperature differential double-acting Stirling engine for solar application. <i>Renewable Energy</i> , 2005, 30, 1923-1941.	4.3	37
11	Development and test of a new catalytic converter for natural gas fuelled engine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2009, 34, 467-481.	0.8	33
12	Impact of the TiO ₂ Nanosolution Concentration on Heat Transfer Enhancement of the Twin Impingement Jet of a Heated Aluminum Plate. <i>Micromachines</i> , 2019, 10, 176.	1.4	27
13	Performance of a non-metallic unglazed solar water heater with integrated storage system. <i>Renewable Energy</i> , 2004, 29, 1421-1430.	4.3	24
14	Modelling and measuring the thermal conductivity of multi-metallic Zn/Cu nanofluid. <i>Research on Chemical Intermediates</i> , 2013, 39, 2801-2815.	1.3	23
15	Difficulty Index of Examinations and Their Relation to the Achievement of Programme Outcomes. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 18, 71-80.	0.5	22
16	Experimental Study of Ceramic Coated Piston Crown for Compressed Natural Gas Direct Injection Engines. <i>Procedia Engineering</i> , 2013, 68, 505-511.	1.2	22
17	A Computational Fluid Dynamics Study of Cold-flow Analysis for Mixture Preparation In a Motored Four-stroke Direct Injection Engine. <i>Journal of Applied Sciences</i> , 2007, 7, 2710-2724.	0.1	21
18	Experimental Test of a New Compressed Natural Gas Direct Injection Engine. <i>Energy & Fuels</i> , 2009, 23, 4981-4987.	2.5	20

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19	Entropy Generation Analysis of Open Parallel Microchannels Embedded Within a Permeable Continuous Moving Surface: Application to Magneto hydrodynamics (MHD). <i>Entropy</i> , 2012, 14, 1-23.	1.1	20
20	Effect of Oxides Nanoparticle Materials on the Pressure Loss and Heat Transfer of Nanofluids in Circular Pipes. <i>Journal of Applied Sciences</i> , 2012, 12, 1396-1401.	0.1	20
21	Effect of fuel injection timings on performance and emissions of stratified combustion CNGDI engine. <i>Applied Thermal Engineering</i> , 2016, 109, 619-629.	3.0	19
22	Experimental analysis of a porous burner operating on kerosene-vegetable cooking oil blends for thermophotovoltaic power generation. <i>Energy Conversion and Management</i> , 2015, 96, 544-560.	4.4	18
23	Predicting average energy conversion of photovoltaic system in Malaysia using a simplified method. <i>Renewable Energy</i> , 2004, 29, 403-411.	4.3	17
24	Reducing Entropy Generation in MHD Fluid Flow over Open Parallel Microchannels Embedded in a Micropatterned Permeable Surface. <i>Entropy</i> , 2013, 15, 4822-4843.	1.1	17
25	Experimental investigation of the performance of a liquid fuel-fired porous burner operating on kerosene-vegetable cooking oil (VCO) blends for micro-cogeneration of thermoelectric power. <i>Renewable Energy</i> , 2015, 74, 505-516.	4.3	17
26	Effect of Reynolds number on heat transfer and flow for multi-oxide nanofluids using numerical simulation. <i>Research on Chemical Intermediates</i> , 2013, 39, 2197-2210.	1.3	16
27	Numerical analysis of the combustion process in a four-stroke compressed natural gas engine with direct injection system. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 1937-1944.	0.7	15
28	Comparison of Performance and Emission of a Gasoline Engine Fuelled by Gasoline and CNG Under Various Throttle Positions. <i>Journal of Applied Sciences</i> , 2014, 14, 386-390.	0.1	15
29	The Combustion and Performance of a Converted Direct Injection Compressed Natural Gas Engine using Spark Plug Fuel Injector. , 0, , .		14
30	Comparative assessment of a porous burner using vegetable cooking oil-kerosene fuel blends for thermoelectric and thermophotovoltaic power generation. <i>Fuel</i> , 2016, 180, 137-147.	3.4	14
31	Experimental Test of a New Compressed Natural Gas Engine with Direct Injection. , 2009, , .		13
32	Fatigue life reliability prediction of a stub axle using Monte Carlo simulation. <i>International Journal of Automotive Technology</i> , 2011, 12, 713-719.	0.7	13
33	Comparing the Effects of Hydrogen Addition on Performance and Exhaust Emission in a Spark Ignition Fueled with Gasoline and CNG. <i>Applied Mechanics and Materials</i> , 0, 165, 120-124.	0.2	13
34	Numerical and Experimental Analysis of the Thermal Performances of SiC/Water and Al ₂ O ₃ /Water Nanofluid Inside a Circular Tube with Constant-Increased-PR Twisted Tape. <i>Energies</i> , 2020, 13, 2095.	1.6	13
35	Inverse combustion force estimation based on response measurements outside the combustion chamber and signal processing. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 2519-2537.	4.4	12
36	Emission analysis of a compressed natural gas direct injection engine with a homogenous mixture. <i>International Journal of Automotive Technology</i> , 2011, 12, 29-38.	0.7	12

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37	A review on the thermal performance of nanofluid inside circular tube with twisted tape inserts. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402092489.	0.8	12
38	Heat Transfer Enhancement in Spirally Corrugated Tube. <i>International Review on Modelling and Simulations</i> , 2014, 7, 970.	0.2	10
39	Comparison of Simple and Detailed Soot Models in the Study of Soot Formation in a Compression Ignition Diesel Engine. , 2017, , .		9
40	Enhancement of heat transfer coefficient multi-metallic nanofluid with ANFIS modeling for thermophysical properties. <i>Thermal Science</i> , 2015, 19, 1613-1620.	0.5	8
41	Numerical Simulation of Flow Inside a Modified Turbocharger Centrifugal Compressor. <i>Asian Journal of Applied Sciences</i> , 2012, 5, 563-572.	0.4	8
42	The Effect of Injection Timings on Performance and Emissions of Compressed Natural-Gas Direct Injection Engine. <i>Journal of Combustion</i> , 2016, 2016, 1-7.	0.5	7
43	Friction Reduction in Compressed Natural Gas Direct Injection Engine using Piston Rings with Diffusion Chromium Coating. <i>Journal of Applied Sciences</i> , 2010, 10, 462-470.	0.1	7
44	Finite element formulation for filling a thin section cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1997, 7, 344-366.	1.6	6
45	Numerical study on the Effect of Interaction Vaned Diffuser with Impeller on the Performance of a Modified Centrifugal Compressor. <i>Journal of Mechanics</i> , 2014, 30, 113-121.	0.7	6
46	Assessment of TiO ₂ Nanoconcentration and Twin Impingement Jet of Heat Transfer Enhancementâ€™A Statistical Approach Using Response Surface Methodology. <i>Energies</i> , 2021, 14, 595.	1.6	6
47	A Review of Progress and Hydrodynamic Design of Integrated Motor Pump-Jet Propulsion. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3824.	1.3	6
48	Combustion Characteristics of Butane Porous Burner for Thermoelectric Power Generation. <i>Journal of Combustion</i> , 2015, 2015, 1-13.	0.5	5
49	Application of Taguchi method in optimization of design parameter for turbocharger vaned diffuser. <i>Industrial Lubrication and Tribology</i> , 2017, 69, 409-413.	0.6	5
50	Experimental and Numerical Simulation of the Heat Transfer Enhancement on the Twin Impingement Jet Mechanism. <i>Energies</i> , 2018, 11, 927.	1.6	5
51	The effect of linearly increasing/decreasing pitch ratio twisted tape with various progression rate and nanofluid towards the system performance. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 100979.	1.3	5
52	Numerical Study of Flow over Ahmed Body and a Road Vehicle and the Change in Aerodynamic Characteristics Caused by Rear Spoiler. <i>International Journal of Fluid Mechanics Research</i> , 2013, 40, 354-372.	0.4	5
53	Development and Test of a New Catalytic Converter for Natural Gas Fueled Engine. , 0, , .		4
54	Measurement of Course Evaluation for Lecturers of the Faculty of Engineering and Built Environment. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 60, 358-364.	0.5	4

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55	Twin Pulsating Jets Impingement Heat Transfer for Fuel Preheating in Automotives. Applied Mechanics and Materials, 2014, 663, 322-328.	0.2	4
56	Enhancement of Integrated Solar Collector with Spherical Capsules PCM Affected by Additive Aluminum Powder. Journal of Thermodynamics, 2016, 2016, 1-7.	0.8	4
57	THE DEVELOPMENT OF A MULTI-PURPOSE WIND TUNNEL. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	4
58	Effect of Ignition Timing and Hydrogen Fraction in Natural Gas Blend on Performance and Exhaust Emissions in a DI Engine. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 737-747.	0.8	4
59	DESIGN AND SIMULATION OF A CYLINDER HEAD STRUCTURE FOR A COMPRESSED NATURAL GAS DIRECT INJECTION ENGINE. International Journal of Automotive and Mechanical Engineering, 2014, 9, 1620-1629.	0.5	4
60	Underhood Fluid Flow and Thermal Analysis for Passenger Vehicle. Applied Mechanics and Materials, 0, 165, 150-154.	0.2	3
61	Reducing Vehicle Drag Force Through a Tapered Rear Side Wall. SAE International Journal of Commercial Vehicles, 0, 6, 582-588.	0.4	3
62	Development of Pulsating Twin Jets Mechanism for Mixing Flow Heat Transfer Analysis. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	3
63	Numerical investigation on soot particles emission in compression ignition diesel engine by using particulate mimic soot model. MATEC Web of Conferences, 2017, 90, 01071.	0.1	3
64	The Development of Artificial Neural Network for Prediction of Performance and Emissions in a Compressed Natural Gas Engine with Direct Injection System. , 0, , .		2
65	Multi-objective Optimization of Combustion Process in a Compressed Natural Gas Direct Injection Engine using Coupled Code of CFD and Genetic Algorithm. , 0, , .		2
66	Gap Analysis towards Harmonisation of the MQA Code of Practice for Programme Accreditation with the Quality Management System of MS ISO 9001:2008. Procedia, Social and Behavioral Sciences, 2011, 18, 436-441.	0.5	2
67	The Effects of Spatial Resolution in Turbulent Boundary Layers with Pressure Gradients. Applied Mechanics and Materials, 2012, 225, 109-117.	0.2	2
68	Development of a Quality Assurance Plan in Line with UKM's Status as a Self-accreditation Institution and Research University. Procedia, Social and Behavioral Sciences, 2012, 59, 95-104.	0.5	2
69	SOOT PARTICLE MEASUREMENT IN ENGINE CYLINDER: A REVIEW. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT ₂ /Overlo	0.3	2
70	NUMERICAL STUDY OF HYDROGEN FUEL COMBUSTION IN COMPRESSION IGNITION ENGINE UNDER ARGON-OXYGEN ATMOSPHERE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	2
71	Numerical investigation of soot mass concentration in compression ignition diesel engine. Journal of Mechanical Engineering and Sciences, 2016, 10, 2275-2287.	0.3	2
72	Heat Transfer Enhancement Comparisons in Different Tube Shapes. International Review on Modelling and Simulations, 2015, 8, 232.	0.2	2

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73	The utilisation of an adaptive 3D Gauss-Legendre quadrature in the simulation of sound propagation outdoors for sources with variable power distribution. Applied Acoustics, 2001, 62, 65-83.	1.7	1
74	Transient Analysis for a Double-Pass Solar Collector With and Without Porous Media. , 2002, , 127.		1
75	The Application of Artificial Neural Network in Predicting and Optimizing Power and Emissions in a Compressed Natural Gas Direct Injection Engine. , 0, ,		1
76	Cubic-Interpolated-Pseudo-Particle lattice Boltzmann method for simulation of natural convection heat transfer in an enclosure with different aspect ratios. , 2010, , .		1
77	Reliability of Student Feedback on the Course Teaching Evaluation System (CTES) and System Usability. Procedia, Social and Behavioral Sciences, 2011, 18, 24-32.	0.5	1
78	Effect of Thermal Barrier Coating on Piston Crown for Compressed Natural Gas with Direct Injection Engine. Applied Mechanics and Materials, 2011, 52-54, 1830-1835.	0.2	1
79	Car Body and Chassis Development of UKM CARevo for Perodua Eco-Challenge 2011. Applied Mechanics and Materials, 2012, 165, 260-264.	0.2	1
80	Development of CNG direct injection (CNGDI) clean fuel system for extra power in small engine. , 2012, , .		1
81	Effect of Extreme Temperatures on Coated Piston Crown for CNGDI Engine. Applied Mechanics and Materials, 0, 393, 281-286.	0.2	1
82	Measuring and ANFIS Modelling for Thermal Conductivity of Cu/Zn Bimetallic Nanofluids. Applied Mechanics and Materials, 0, 663, 311-316.	0.2	1
83	INVESTIGATION ON CHARACTERISTICS OF POME BLENDED DIESEL ENGINE. Jurnal Teknologi (Sciences and) Tj ETQq1.1 0.784314 rgB / 0.3 1	0.3	1
84	Compressed Natural Gas Direct Injection: Comparison Between Homogeneous and Stratified Combustion. , 0, , .		1
85	Study on Soot Mass Fraction and Size Distribution in a Direct Injection Diesel Engine Using Particulate Size Mimic Soot Model. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	1
86	Characteristics of Swirl Angle in Pump Intake Flow Near the Minimum Inlet Submergence. , 2019, , .		1
87	Simulation of surface tension effect during filling of a thin section cavity via an interface element. Communications in Numerical Methods in Engineering, 1998, 14, 229-240.	1.3	0
88	Heat Transfer and Pressure Drop Correlations for Double-Pass Solar Collector With and Without Porous Media. , 2002, , 65.		0
89	Unglazed Fiberglass Reinforced Polyester Solar Water Heater with Integrated Storage System. Journal of Energy Engineering - ASCE, 2007, 133, 26-31.	1.0	0
90	Cubic-Interpolated-Pseudo-Particle Lattice Boltzmann Method for Simulation of Natural Convection Heat Transfer in an Enclosure. , 2010, , .		0

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91	The effect of spray angles of the injector on the power of compressed natural gas direct injection (CNGDI) engine. , 2012, , .		0
92	Implementation Strategy for D2Q9 Model on Desktop Grid Environment. Procedia Technology, 2013, 11, 1110-1116.	1.1	0
93	Modelling on structural integrity of ceramic coated piston crown for a compressed natural gas direct injection engine. , 2013, , .		0
94	The Influence of Temperature Dependant Parameters in Plastic 0.0nd Metal Injection Molding using Taguchi Method. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.3	0
95	Effect of Vaned Diffuser on a Modified Turbocharger Centrifugal Compressor Performance. Applied Mechanics and Materials, 2014, 663, 347-353.	0.2	0
96	Heat Transfer Characteristic of Thermal Barrier Coated Piston Crown for a Compressed Natural Gas Direct Injection Engine. Applied Mechanics and Materials, 0, 663, 304-310.	0.2	0
97	Conceptual Thermosyphonic Loop Cooled Thermoelectric Power Cogeneration System for Automotive Applications. Applied Mechanics and Materials, 2014, 663, 294-298.	0.2	0
98	Public Perception and Acceptance of Diesel-Powered Passenger Cars in Malaysia: An Initial Study. Applied Mechanics and Materials, 0, 663, 49-53.	0.2	0
99	Analysis of boost conversion process for a thermoelectric module. International Journal of Advanced Mechatronic Systems, 2017, 7, 144.	0.1	0
100	Experimental Investigation of Performance and Emissions of a Stratified Charge CNG Direct Injection Engine with Turbocharger. MATEC Web of Conferences, 2017, 124, 07004.	0.1	0
101	Investigation of the pressure ratio and efficiency of a turbocharger centrifugal compressor with a vaned diffuser. World Review of Science, Technology and Sustainable Development, 2018, 14, 228.	0.3	0
102	Development of The Four-Cylinder Moving Mesh Model for A 1.6 Litre Four-Stroke Direct-Injection Engine. Jurnal Kejuruteraan, 2008, 20, 135-149.	0.2	0
103	Analysis of boost conversion process for a thermoelectric module. International Journal of Advanced Mechatronic Systems, 2017, 7, 144.	0.1	0