

AMAN MOHD IHSAN BIN MAMAT, PhD



Assoc. Prof. Dr. Aman Mohd Ihsan Bin Mamat is the Director of the Smart Manufacturing Research Institute (SMRI) at Universiti Teknologi MARA. With a decade of academic leadership experience, he specializes in postgraduate studies and research management. Dr. Aman possesses extensive knowledge and experience in academic administration, governance, student development, as well as local and international marketing, promotions, and academic internationalization. Dr. Aman earned his Bachelor of Mechanical Engineering (Aeronautics) from Universiti Teknologi Malaysia (UTM) in 2001, followed by a Specialized Master in Aeronautics and Space Techniques from SUPAERO, France in 2004. In 2012, he obtained his Doctor of Philosophy in Mechanical Engineering from Imperial College London, with a research focus on energy recovery for the automotive industry. He is a Chartered member of Institute of Mechanical Engineers (IMechE), UK since 2020 and a certified HRDC trainer. As social contribution, Dr Aman is Secretary of SMACHIAN Alumni since 2016.

Dr. Aman has an impressive publication record with 49 scientific papers indexed by SCOPUS, amassing 855 citations. His current SCOPUS h-index is 16, reflecting his significant contributions to the field.

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Google Scholar	http://scholar.google.com/citations?hl=en&user=pELX_BUAAAAJ&view_op=list_works Citations: 1185 H Index: 19 i10- Index: 27	All Since 2020 <table> <tr> <td>Citations</td> <td>1185</td> <td>671</td> </tr> <tr> <td>h-index</td> <td>19</td> <td>14</td> </tr> <tr> <td>i10-index</td> <td>27</td> <td>17</td> </tr> </table>	Citations	1185	671	h-index	19	14	i10-index	27	17
Citations	1185	671									
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i10-index	27	17									
ORCID	https://orcid.org/0000-0002-2656-1063 SCOPUS ID: 55490890100 Documents: 49 Citations: 855 h-index: 16										

BASIC PROFILE

Appointments	Date/Year of Appointment
Lecturer DM45/DM46	Oct/2004
Associate Professor DM54	June/2016
Year of Birth	1977
Ph.D Qualification (Year Obtained)	PhD in Mechanical Engineering, Imperial College London (2012) Automotive Turbomachinery For Energy Recovery

ACADEMIC LEADERSHIP

	POSITION	YEAR APPOINTED	YEAR END	ROLE
1	DIRECTOR SMART MANUFACTURING RESEARCH INSTITUTE (SMRI)	2024	2026	1. Set up and monitor strategic planning for SMRI. 2. Manage and control the human resource for SMRI. 3. Control the budget for the SMRI. 4. Monitor the network and collaborations of the researchers. 5. Monitor the publications of the researchers. 6. Monitor and control income generation activities. 7. Planning the financial and budget. 8. Planning for the talent development.
1	HEAD OF POSTGRADUATE STUDIES (RESEARCH) FOR UiTM	2017	CURRENT	1. Manage postgraduate studies for research to achieve the yearly target 2. Prepare working paper for new policies in postgraduate studies 3. Promote postgraduate studies for UiTM at international and local 4. Manage the human resource for research department 5. Strategise a new policies for postgraduate studies improvement in UiTM 6. Engagement for internationalization program.
2	HEAD OF POSTGRADUATE STUDIES FOR FACULTY OF MECHANICAL ENGINEERING	2013	2016	Managing postgraduate studies for for the The Faculty of Mechanical Engineering
3	HEAD OF AEROSPACE AND MATERIALS CENTER OF STUDY FOR FACULTY OF MECHANICAL ENGINEERING	2007	2008	Managing the human resource and academic planning for the center of studies
4	STUDENT'S DEVELOPMENT OFFICER	2006	2008	1. Organise student's development program 2. Evaluate working papers for student's activities 3. Manage student's activities

CAREER RECOGNITION

	POSITION	YEAR
1	EXCELENCE SERVICE AWARD	2020

2	EXCELENCE SERVICE AWARD	2014
3	EXCELENCE SERVICE AWARD	2007

POSTGRADUATE SUPERVISION

GRADUATED MSc SUPERVISION

	STUDENTS NAME	TITLE	YEAR ENROLLED	YEAR END
1	HAZIM BIN SHARUDIN (Co-SV)	COMBUSTION AND EMISSIONS CHARACTERISTICS OF GASOLINE ENGINE FUELED WITH METHANOL-GASOLINE AND ISO-BUTANOL- GASOLINE BLENDS AT DIFFERENT ENGINE SPEEDS AND LOADS	2015	2017
2	NOOR IDAYU BINTI MOHD TAHIR (Co-SV)	AERODYNAMIC DESIGN IMPROVEMENT OF THE KENYALANG FUEL CELL POWERED UNMANNED AIR VEHICLE (UAV)	2009	2017
3	NUR HIDAYAH BINTI MOHD RAZIF (Main SV)	HEAT EXCHANGER ANALYSIS FOR THE CONDENSER OF ORGANIC RANKINE CYCLE (ORC)	2014	2017
4	SITI NOR SYAZWANI BINTI RIDZUAN (Main SV)	THE ANALYSIS OF NON-RADIAL FIBRE MIXED FLOW TURBINE FOR RECOVERING WASTE HEAT ENERGY UTM	2015	2020

GRADUATED PhD SUPERVISION

	STUDENTS NAME	TITLE	YEAR ENROLLED	YEAR END
1	IRNIE AZLIN @ NUR AQILAH ZAKARIA (Co-SV) (Graduate On Time)	THERMAL ENGINEERING OF A FUEL CELL POWER PLANT FOR VEHICLES	2012	8/2015
2	KHAIRUL KHUSAIRI BIN KAMALUDIN (Main-SV)	ENGINE PERFORMANCE AND CONTROL FOR CHARGE AIR COOLING BY WATER INJECTION OF SPARK IGNITION TURBOCHARGED ENGINE	2016	2024

ON-GOING MSc (RESEARCH) SUPERVISION

	STUDENTS NAME	TITLE	YEAR ENROLLED	YEAR END
1	MOHD KHAZAIRAN BIN ZAWARI	ONE DIMENSIONAL (1-D) SIMULATION OF HYDROGEN ENGINE PERFORMANCE USING GT-POWER	2023	2024

ON-GOING PhD SUPERVISION

	STUDENTS NAME	TITLE	YEAR ENROLLED	YEAR END
1	MOHD HANIF BIN MAT@MUHAMMAD	ENGINE PERFORMANCE ANALYSIS OF EXHAUST ENERGY RECOVERY USING TURBOCOMPOUNDING	2014	2024
2	KHAIRUL KHUSAIRI BIN KAMALUDIN	WATER INJECTION CONTROL SYSTEM FOR TURBOCHARGED ENGINE	2016	2024
3	MOHD FIRDAUS BIN ZAKARIA	GEOECENOMICAL STUDY FOR KUANTAN INTERNATIONAL AIRPORT DEVELOPMENT	2024	2028

PhD Thesis Examination

	STUDENTS NAME	UNIVERSITY	TITLE	YEAR
1	FADILAH BT MOHD SAKRI	UTM	THE EFFECTS OF BLUFF BODY ON AIR-CORE VORTEX FORMATION INSIDE A DRAINING TANK	2017
2	AHAMAD SOLEHIN BIN PAIMON	UTM	ENGINE INDUCTION STRATEGY FOR PART LOAD OPERATION TOWARDS LOW CARBON VEHICLE	2019
3	NOOF ZAFIRAH BINTI ABU BAKAR	UTM	FLUIDS-STRUCTURE INTERACTION OF A MIXED-FLOW TURBOCHARGER TURBINE UNDER PULSATING FLOW	2024
4	AMIZA BINTI AZMI	UTM	THE INFLUENCE OF VOLUTE ASPECT RATIO TOWARDS MIXED-FLOW TURBOCHARGER TURBINE PERFORMANCE	2024

MSc Thesis Examination

	STUDENTS NAME	UNIVERSITY	TITLE	YEAR
1	CHIONG MENG CHOUNG	UTM	SIMULATION STUDY THE EFFECT OF PASSIVE CONTROL TURBOCHARGING ON DIESEL ENGINE PERFORMANCE	2014
2	ABDUL WAHID OMAR ARMAN	UMP	EXHAUST GAS REFORMING OF NATURAL GAS FOR ON-BOARD HYDROGEN RICH SYNGAS PRODUCTION IN SPARK IGNITION ENGINE	2020
3	KOH QI YUN	UTM	WASTE HEAT RECOVERY OPTIMIZATION FOR OFF-SHORE OIL PLATFORM THROUGH ARTIFICIAL INTELLIGENCE	2023
4	WAN MUHAMMAD AQIB WAN ROSLI	UTM	THE INFLUENCE OF FLOW ANGLE ON THE PERFORMANCE OF A MIXED FLOW TURBOCHARGER TURBINE UNDER PULSE FLOW OPERATING PERFORMANCE	2023
5	ALI MOHAMMED OMAR SALEM BA SALEEM	UMP	THE ROLE OF NANO PARTICLES IN SPRAY ATOMIZATION OF DIESEL IN DIRECT INJECTION DIESEL ENGINE	2023

RESEARCH FUNDINGS

NATIONAL LEVEL ACTIVE RESEARCH FUNDING

	RESEARCH PROJECT	SOURCE	TOTAL FUNDS	BEGIN YEAR	END YEAR	ROLE
1	ELECTRIC TURBOCOMPOUNDING FOR RECOVERING WASTE ENERGY	BESTARI/ UiTM	RM40,000	2017	2019	PRINCIPAL
2	DEVELOPMENT OF ELECTRIC TURBOCOMPOUNDING PROTOTYPE FOR EXHAUST ENERGY RECOVERY	PROTOTYPE RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM207,000	2016	2019	PRINCIPAL
3	CHARACTERISATION OF NON RADIAL FIBRE TURBINE	GRADUATE INCENTIVE PROJECT	RM 25,000	2016	2017	PRINCIPAL
4	EXPERIMENTAL STUDY OF HEAT TRANSFER MECHANISM DURING POOL BOILING FOR ELECTRONICS COOLING APPLICATION	RESEARCH ACCULUURATION GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM53,000	2015	2017	Member
5	ANALYSIS OF HEAT TRANSFER BEHAVIOUR DURING NUCLEATE POOL BOILING OF NANOFLUIDS	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM99,700	2015	2017	Member
6	COMBUSTION AND FLAME SPEEDS ANALYSIS ON HIGHER-LOWER MOLECULAR WEIGHT ALCOHOLS	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM130,200	2015	2017	Member
7	ENERGY BALANCE MODEL OF AN ELECTRIC HYDROGEN PROPULSION SYSTEM WITH ENERGY REGENERATION	RESEARCH ACCULUURATION GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM80,000	2014	2016	Member
8	BLENDED WING-BODY MICRO-CLASS UNMANNED AIRCRAFT PROTOTYPE FOR AERIAL SURVEILLANCE	PROTOTYPE RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM180,000	2014	2016	Member

	RESEARCH PROJECT	SOURCE	TOTAL FUNDS	BEGIN YEAR	END YEAR	ROLE
9	FLIGHT DYNAMICS OF BLENDED WING-BODY (BWB) WITH BLENDED TAIL-BODY (BTB).	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM123,000	2014	2015	Member
10	APPLICATION OF NANOFLUID AS COOLING MEDIUM IN A PROTON EXCHANGE MEMBRANE FUEL CELL SYSTEM FOR VEHICLES	LONG TERM RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM60,000	2014	2016	Member
11	CHARACTERIZATION OF LEAN ANGLE FOR A MIXED-FLOW TURBINE	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM119,000	2013	2015	PRINCIPAL
12	ANALYSIS ON THE EFFECTS OF UPSTREAM IDEALIZED BUILDING ARRANGEMENT IN AN URBAN ENVIRONMENT	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM80,000	2013	2015	Member
13	WASTE HEAT EXCHANGER OF ORGANIC RANKINE CYCLE (ORC) FOR ENGINE ENERGY RECOVERY IN INTERNAL COMBUSTION ENGINE	EXPLORATORY RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM63,000	2013	2016	PRINCIPAL
14	CHARACTERIZATION OF LEAN ANGLE FOR A MIXED-FLOW TURBINE PART 2	UNIVERSITI TEKNOLOGI MARA, MALAYSIA	RM60,000	2013	2015	PRINCIPAL
15	MEAN-LINE MODELLING OF ORGANIC RANKINE CYCLE (ORC) FOR WASTE EXHAUST ENERGY RECOVERY OF INTERNAL COMBUSTION ENGINE	UNIVERSITI TEKNOLOGI MARA, MALAYSIA	RM32,000	2012	2014	PRINCIPAL
16	WIND TUNNEL EXPERIMENT OF BLENDED WING BODY/ CO-RESEARCHER	FUNDAMENTAL RESEARCH GRANT SCHEME (MINISTRY OF EDUCATION, MALAYSIA)	RM40,000	2007	2010	Member
17	AERODYNAMICS ANALYSIS OF BLENDED WING BODY (BWB) OF UNMANNED AERIAL VEHICLE (UAV) USING COMPUTATIONAL FLUID DYNAMICS (CFD)	UNIVERSITI TEKNOLOGI MARA, MALAYSIA	RM11,000	2005	2006	PRINCIPAL
18	DESIGN PARAMETERS FOR THE DEVELOPMENT OF WING TEST RIG FOR STATIC TEST EXPERIMENT	UNIVERSITI TEKNOLOGI MARA, MALAYSIA	RM30,000	2007	2008	Member

INTERNATIONAL RESEARCH FUNDING INCLUDING CONTRACT RESEARCH (Last Five Years)

	Research Project	Source	Total Funds	Begin Year	End Year
1	HYBOOST PROJECT (PHD STUDENT)	TSB United Kingdom	UKP 3million	2009	2011

PATENT

	TITLE	LOCATION	No.	Year
1	TURBINE WHEEL, A TURBINE AND USE THEREOF	US PATENT (GRANTED)	US9708913 B2	2017

2	ELECTRIC TURBO COMPOUNDING SYSTEM WITH DUAL-STAGE COOLING ASSEMBLY FOR INTERNAL COMBUSTION ENGINE	MALAYSIAN PATENT (FILE)	PI2019003918	2019
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CONSULTATION

	TITLE	AMOUNT	CLIENT	Year
1	ENGINE DEVELOPMENT AND TESTING	RM17,810	PUSAT KEJURUTERAAN AUTOMOTIF, UNIVERSITI MALAYSIA PAHANG	2014
2	WEB PERFORMANCE ANALYSIS	RM 10,200	SDIT TRAINING & CONSULTANCY	2015

NETWORK AND LINKAGES

BIL	MOA TITLE	ACTIVITIES	STUDENT'S NAME	DURATION	CATEGORY
1	INDUSTRIAL PhD UiTM - SIRIM	INDUSTRIAL PhD	SITI MUSALMAH	2015-2018	NATIONAL
2	IMPERIAL COLLEGE LONDON	RESEARCH	MOHD HANIF MAT	2015-2018	INTERNATIONAL

AWARD AND RECOGNITION

BIL	AWARD'S NAME	EVENT/ ACTIVITIES	YEAR	CATEGORY
1	SILVER AWARD	RISE 2015	2015	NATIONAL
2	GOLD AWARD	IIDEX 2016	2016	NATIONAL

GRANT PANEL

BIL	INSTITUTION	GRANT	YEAR	CATEGORY
1	Ministry of Higher Education	HiCoE	2020 - current	NATIONAL PANEL
1	Ministry of Higher Education	KKP	2020 - current	NATIONAL PANEL
1	Ministry of Higher Education	FRGS	2018 – current	NATIONAL PANEL
2	UiTM	IRMI, FRGS & PRGS	2017 - current	INTERNAL PANEL

LIST OF PUBLICATIONS

PUBLICATIONS FOR 2025

- [1] NS Ahmad, MN Azman, AMI Mamat, "Optimized design and performance analysis of a high-pressure radial turbine for energy recovery applications", Journal of Mechanical Engineering and Sciences, Vol. 19, Issue 2, 2025, pp. 10577-10593, ISSN : 2231-8380, DOI: doi.org/10.15282/jmes.19.2.2025.1.0829
- [2] MHM Muhammad, AMI Mamat, W Salim, "Simulation-based emission analysis of electric turbocompounding in a 1.6 L turbocharged camPro engine", Journal of Mechanical Engineering (JMEchE) 22 (2), 163-172, UiTM Press, e-ISSN: 2550-164X, DOI: e-ISSN: https://doi.org/10.24191/jmeche.v22 i2.2928

PUBLICATIONS FOR 2024

- [1] Aman Mohd Ihsan Mamat, "Energy and Exergy of Theoretical Combustion Analysis for Hydrogen Blended with Traditional Fuels", Journal of Aeronautics, Astronautics and Aviation, Aeronautical and Astronautical Society of the Republic of China, Vol. 56, Issue 1S, 1 March 2024, pp. 299-310, ISSN : 1990-7710, DOI: [10.6125/JoAAA.202403_56\(1S\).19](https://doi.org/10.6125/JoAAA.202403_56(1S).19)

- [2] Aman Mohd Ihsan Bin Mamat; Faiz Izwan Bin Anuar; Khalilah Binti Abdul Khalil, "A big data exploratory for pattern and forecasting postgraduate student analysis in a Malaysian University", *AIP Conf. Proc.* 3123, 070004 (2024) <https://doi.org/10.1063/5.0223855>
- [3] Aman Mohd Ihsan Bin Mamat, Muhamad Zulazman Bin Azmizam, "CFD Analysis of 500W Centrifugal Compressor Performance", *Journal of Applied Engineering Design and Simulations*, Vol. 4, Issue 2, 27 September 2024 <https://doi.org/10.24191/jaeds.v4i2>
- [4] SF Zakaria, AMI Mamat, Z Zakaria, A Supar, "International student recruitment: benefits and globalisation to the university", *International Journal of e-Learning and Higher Education (IJELHE)*, Vol. 16, Issue 2, pp 231-246, 2024, UiTM Press

PUBLICATIONS FOR 2023

- [1] Aman Mohd Ihsan Mamat, Siti Farhana Zakaria, Zuhaina Zakaria, "Blockchain Framework of UiTM Postgraduate Tracking System (UPTrackS) for Good Governance Practice", *Environment-Behaviour Proceedings Journal*, AMER & cE-Bs by e-International Publishing House, Ltd., UK, Vol. 8, Issue SI12, 31 August 2023, pp. 85-93, eISSN 2398-4287, DOI: [10.21834/e-bpj.v8iSI12.5010](https://doi.org/10.21834/e-bpj.v8iSI12.5010)

PUBLICATIONS FOR 2022

- [1] Khairul Khusairi Kamaludin, Aman Mohd Ihsan Mamat, Mohamed Zulkifli, Wan Saiful-Islam Wan Salim, "Water injection control modelling by using model-based calibration", *IAES International Journal of Robotics and Automation*, IAES Institute of Advanced Engineering and Science, Vol. 11, Issue 4, 1 December 2022, pp. 304-314, ISSN: 2722-2586, DOI: [10.11591/ijra.v11i4](https://doi.org/10.11591/ijra.v11i4).

PUBLICATIONS FOR 2020

- [1] Khairul Khusairi Kamaludin, Aman Mohd Ihsan Mamat, Zulkifli Mohamed, "Engine Characteristics Analysis of Turbocharged Spark Ignition Engine with Water Injection Charge Air Cooling", *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Penerbit Akademia Baru, Vol. 68, Issue 1, 1 April 2020, pp. 133-142, e-ISSN: 2289-7879
- [2] Zheng Liu, Alessandro Romagnoli, Torsten Palenschat, Meng Soon Chiong, Srithar Rajoo, Muhamad H Padzillah, Aman Mamat, Markus Kraft, "Performance Improvement of an Asymmetric Twin Scroll Turbocharger Turbine through Secondary Flow Injection," *SAE Technical Paper 2020-01-1011*, 2020, <https://doi.org/10.4271/2020-01-1011>.

PUBLICATIONS FOR 2019

- [1] AA Ahmad Zahidin, AMI Mamat, A Romagnoli, "Computational performance of a-100 kW low pressure turbine to recover gas turbine exhaust energy", *Journal of Mechanical Engineering and Sciences (JMES)*, Universiti Malaysia Pahang Publication, Vol. 13, Issue 2, June 2019, pp. 4777-4793, e-ISSN: 2231-8380 DOI: <https://doi.org/10.15282/jmes.13.2.2019.02.0399>
- [2] MSF Zaini, AMI Mamat, JB Saedon, MS Adenan, "Thermal Barrier Coating (TBC) of 8 Yttria Stabilized Zirconia and Mullite on Medium Carbon Steel", *Journal of Mechanical Engineering*, Penerbit UiTM, Vol SI 9(1), 2020, pp. 13-23, e-ISSN: 2550-164X

PUBLICATIONS FOR 2018

- [1] Irmie Zakaria, WANW Mohamed, WH Azmi, AMI Mamat, Rizalman Mamat, WRW Daud, "Thermo-electrical performance of PEM fuel cell using Al₂O₃ nanofluids", *International Journal of Heat and Mass Transfer*, Pergamon, 30 April 2018, Vol. 119, Pg. 460-471, ISSN: 0017-9310 (I/F: 3.454)
- [2] WANW Mohamed, Irmie Zakaria, AMI Mamat, SF Abu Talib, Wan Ramli Wan Daud, "Effect of dynamic load on the temperature profiles and cooling response time of a proton exchange membrane fuel cell", *Journal of the Energy Institute*, Elsevier, Volume 91, Issue 3, June 2018, Pages 349-357, ISSN: 1359-4311 DOI: [dx.doi.org/10.1016/j.joei.2017.02.006](https://doi.org/10.1016/j.joei.2017.02.006) (I/F: 3.204)

- [3] Irnie Azlin Zakaria, Wan Ahmad Najmi Wan Mohamed, Aman Mohd Ihsan Mamat, Khairul Imran Sainan, Muhad Rozi Mat Nawi, Gholam Hassan Najafi, "Numerical Analysis Of Al₂O₃ Nanofluids In Serpentine Cooling Plate Of PEM Fuel Cell", Journal of Mechanical Engineering, Vol SI 5(1), 1-13, 2018, e-ISSN 2550-164X
- [4] Mohd Hanif Mat Muhammad, Aman Mohd Ihsan Mamat, Wan Saiful-islam Wan Salim, "Exergy Analysis of Organic Rankine Cycle and Electric Turbo Compounding for Waste Heat Recovery", International Journal of Engineering & Technology, Vol.7, Issue 3.11, 2018, pg. 152-156, e-ISSN 2227-524X DOI: 10.14419/ijet.v7i3.11.15951
- [5] Abdul Razak, R.K., Muhammad, K.S., Baharom, R., Mamat, A.M.I. "Open-circuit fault detection technique for fault-tolerant bridgeless boost rectifier", International Journal of Engineering and Technology(UAE) 7(3), pp. 168-173 e-ISSN 2227-524X DOI: 10.14419/ijet.v7i3.15.17523

PUBLICATIONS FOR 2017

- [1] Bin Mamat, A. M. I., Romagnoli, A., Martinez-Botas, R.F, "Turbine wheel, a turbine and use thereof", US Patent Grant, US9708913 B2, 2017 <https://www.google.com/patents/US9708913>
- [2] I Lias, M.I. Nasir, M.H. Ismail, A.M.I Mamat "Calculation of Exhaust Gas Heat Produce for Ron 95, Ron97 and Vpower Racing Base Fuels use in Internal Combustion Engines", International Journal of Vehicle Structures & Systems (IJVSS). 2017, Vol. 9 Issue 3, p182-185 ISSN: 0975-3060
- [3] I Saad, NR Abdullah, AMI Mamat, WH Ab Rashid "Experimental Investigation of Diesel Engine Run with Waste Cooking Oil– Petrol Blends", Journal of Mechanical Engineering, Vol SI 4(3), 100-109, 2017 e-ISSN 2550-164X
- [4] H Sharudin, NR Abdullah, AMI Mamat, MSM Zaharin "Experimental Investigation on Physicochemical Properties of Iso-Butanol Additive in Methanol-Gasoline Blends", Journal of Mechanical Engineering, Vol SI 2 (1), 1-15, 2017 e-ISSN 2550-164X

PUBLICATIONS FOR 2016

- [1] Aman MI Bin Mamat, Ricardo F Martinez-Botas, Srihar Rajoo, Liu Hao, Alessandro Romagnoli "Design methodology of a low pressure turbine for waste heat recovery via electric turbocompounding", Applied Thermal Engineering, Pergamon, Vol. 107, Issue 9, 25 August 2016, pp. 1166-1182, ISSN: 1359-4311 DOI: <http://dx.doi.org/10.1016/j.applthermaleng.2016.06.142> (I/F: 3.269)
- [2] Irnie Zakaria, WH Azmi, AMI Mamat, Rizalman Mamat, R Saidur, SF Abu Talib, WANW Mohamed "Thermal analysis of Al₂O₃–water ethylene glycol mixture nanofluid for single PEM fuel cell cooling plate: An experimental study", International Journal of Hydrogen Energy, Pergamon, Vol. 41, Issue 9, 9 June 2016, pp. 5096-5112, ISSN: 0360-3199 DOI: [10.1016/j.ijhydene.2016.01.041](http://dx.doi.org/10.1016/j.ijhydene.2016.01.041) (I/F: 3.659)
- [3] N.H. Mohd Razif, N.H. Kamaruddin, A.M.I. Mamat, W.A.N Wan Mohamed "Characteristic of ORC finned - Tube condenser design using ammonia-water mixture", ARNP Journal of Engineering and Applied Sciences, Asian Research Publishing Network, Vol. 11, Issue 12, 1 June 2016, pp. 7463-7469 ISSN: 1819-6608
- [4] Hazim Sharudin, Nik Rosli Abdullah, A.M.I. Mamat, O.M Ali "Recent advances in the application and challenges of methanol fuels in spark ignition engine", ARNP Journal of Engineering and Applied Sciences, Asian Research Publishing Network, Vol. 11, Issue 12, 1 June 2016, pp. 7588-7595 ISSN: 1819-6608
- [5] I Lias, M.I. Nasir, M.H. Ismail, A.M.I Mamat "Design and fabrication of aluminium foam tube for heat exchanger application", ARNP Journal of Engineering and Applied Sciences, Asian Research Publishing Network, Vol. 11, Issue 14, 14 July 2016, pp. 8721-8725 ISSN: 1819-6608

PUBLICATIONS FOR 2015

- [1] Bin Mamat, A.M.I., Romagnoli, A., Martinez-Botas, R.F., Rajoo, S, Petrovic. S., "Waste heat recovery using a novel high performance low pressure turbine for electric turbocompounding in downsized gasoline engines: Experimental and computational analysis", The International Journal Energy, PERGAMON, Vol. 90, Part 1, October 2015, Pages 218–234 ISSN: 0360-5442, 2015, pp. 1-17 (in Press Corrected Proof) (IF 3.61). DOI: <http://dx.doi.org/10.1016/j.energy.2015.06.010>
- [2] AMI Bin Mamat, RF Martinez-Botas, MC Chiong, S Rajoo, Simon Petrovic, A Romagnoli, "Exhaust Gas Energy Recovery Via Electric Turbocompounding", Energy Procedia, Elsevier, Vol. 75, ISSN: 1876-6102, August 2015, pp. 1555. DOI: <http://dx.doi.org/10.1016/j.egypro.2015.07.336>

- [3] Kant, M., Romagnoli, A., Bin Mamat, A.M.I., Martinez-Botas, R.F., "Heavy-duty engine electric turbocompounding", Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, SAGE Publications Inc., Vol. 229 (4), pp. 457-472, ISSN: 09544070, (IF 0.649). DOI: 10.1177/0954407014547237
- [4] Mat, M.H., Badrulhisam, N.H., Hanafiah, A.Q., Abdullah N.R., Bin Mamat, A.M.I., "CHARACTERISTICS OF K3-VEI4 ENGINE PERFORMANCE USING SWIRL GENERATOR, AIR INTAKE TANK AND EXHAUST GAS RECIRCULATION MODIFICATION", International Journal of Automotive and Mechanical Engineering (IJAME), Universiti Malaysia Pahang Publication, Vol. 11, January –June 2015, pp. 2484-2494, ISSN: 2180-1606 (Online), (IF 0.26) DOI: <http://dx.doi.org/10.15282/ijame.11.2015.28.0209>
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