



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME PROFESOR MADYA DR MOHD FADZLI BIN ABDOLLAH

FACULTY / CENTRE FAKULTI KEJURUTERAAN MEKANIKAL

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION TIMBALAN DEKAN (AKADEMIK) - FAKULTI KEJURUTERAAN MEKANIKAL

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2011	KEDOKTORAN FALSAFAH (PH.D)	NAGOYA UNIVERSITY
2005	SARJANA (MASTERS)	UKM
2004	SARJANA MUDA KEPUJIAN(BACHELOR HONS)	UKM

FIELD OF INTEREST

TRIBOLOGY OF ECO-MATERIALS, AUTOMOTIVE TRIBOLOGY, SURFACE ENGINEERING

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BMCK3013 - INTEGRATED DESIGN PROJECT I
2020/2021	BMCG2312 - MANUFACTURING PROCESS
2020/2021	BMCG3313 - ENGINEERING DESIGN
2020/2021	BMCU3013 - INTEGRATED DESIGN PROJECT
2020/2021	BMCU4984 - UNDERGRADUATE PROJECT II
2019/2020	BMCG2011 - MECHANICAL ENGINEERING LABORATORY II
2019/2020	BMCG2312 - MANUFACTURING PROCESS
2018/2019	BMCG2312 - MANUFACTURING PROCESS
2018/2019	DMCU1323 - MANUFACTURING PROCESS
2017/2018	BMCG2312 - MANUFACTURING PROCESS
2017/2018	BMCG4923 - AUTOMOTIVE TECHNOLOGY
2017/2018	BMCU3013 - INTEGRATED DESIGN PROJECT
2016/2017	BMCU3013 - INTEGRATED DESIGN PROJECT

POSTGRADUATES

SESSION	COURSE
2020/2021	MMCU5910 - MASTER PROJECT
2020/2021	MMCV5613 - VEHICLE POWERTRAIN SYSTEM
2019/2020	MMCD5823 - TEKNOLOGI MAMPATAN MASA
2019/2020	MMCU5963 - 3D PRINTING
2019/2020	MMCV5613 - VEHICLE POWERTRAIN SYSTEM
2018/2019	BMCG2312 - PROSES PEMBUATAN
2018/2019	MMCU5910 - MASTER PROJECT
2017/2018	MMCU5910 - MASTER PROJECT
2017/2018	MMCU5921 - RESEARCH PROJECT
2016/2017	MMCU5910 - MASTER PROJECT
2016/2017	MMCU5921 - RESEARCH PROJECT

LIST OF GRANTS (last 5 years)

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2021	DEVELOPMENT OF NON-EDIBLE VEGETABLE OIL-BASED GREASE WITH BEESWAX THICKENER AND HEXAGONAL BORON NITRIDE NANOADDITIVE FOR HIGH-SPEED RAILWAY AXLEBOX BEARING	GERAN KHAS (NATIONAL)	12000	CO-RESEARCHER
2021	DISPERSIVITY AND TRIBOLOGICAL BEHAVIOUR OF OIL PALM FIBRE-BASED GRAPHENE SYNTHESISED ON COPPERNANOPARTICLE SURFACES FOR SUPERLUBRICITY OIL ADDITIVE	GERAN FRGS (NATIONAL)	102800	CO-RESEARCHER
2020	INVESTIGATION INTO TRIBOLOGICAL PERFORMANCE OF WASTE COOKING OIL (WCO) AS BIODIESEL WITH DIFFERENT ADDITIVES	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2020	TRIBOLOGICAL BEHAVIOR OF LUBRICANT-IMPREGNATED PALM KERNEL ACTIVATED CARBON POLYMER COMPOSITE AS AN ALTERNATIVE SELF-LUBRICATING MATERIAL	GERAN FRGS (NATIONAL)	78475	CO-RESEARCHER
2020	ANALYSIS OF TRIBO-MECHANICAL BEHAVIOUR OF 3D PRINTED POLYCARBONATE-URETHANE FOR ARTIFICIAL MENISCAL MATERIAL	GERAN FRGS (NATIONAL)	130800	MAIN RESEARCHER
2019	MATERIAL COMPATIBILITY ASSESSMENT ON PALM BIODIESEL (B30): ENGINE PERFORMANCE AND EMISSION EVALUATION, FUEL DELIVERY SYSTEM, TRIBOLOGY STUDY AND INJECTOR PERFORMANCE	GERAN KERAJAAN/PRIVATE/NGO (INDUSTRY)	314930	CO-RESEARCHER
2019	ERASMUS+ CAPACITY BUILDING IN HIGHER EDUCATION (CBHE) ON AUTOMOTIVE ENGINEERING	GERAN ANTARABANGSA (INTERNATIONAL)	393856	CO-RESEARCHER
2019	CORRELATION OF DESIGN PARAMETERS OF LIGHTWEIGHT LATTICE STRUCTURES ON VIBRATION CHARACTERISTICS AND MECHANICAL STRENGTH FOR HIGH EFFICIENCY ISOLATOR	GERAN FRGS (NATIONAL)	113500	CO-RESEARCHER
2019	CORRELATION OF MECHANICAL-MATERIAL PROPERTIES AND TRIBOLOGICAL BEHAVIOUR OF 3D-PRINTED OBJECT WITH INTERNAL GEOMETRICAL STRUCTURE	GERAN FRGS (NATIONAL)	81200	CO-RESEARCHER
2019	FRICTION PERFORMANCE OF GRAPHENE SYNTHESIZED FROM PALM OIL FIBRE UNDER DRY SLIDING CONDITION	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2019	EXPERIMENTAL INVESTIGATION ON FRICTION PERFORMANCE OF HUMAN HAIR FIBRE	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2019	DRY FRICTION BEHAVIOUR OF LUBRICANT-IMPREGNATED PALM KERNEL ACTIVATED CARBON-REINFORCED POLYMER COMPOSITE FOR INTERMITTENT LUBRICATION SYSTEM	SHORT TERM (UTEM)	20000	CO-RESEARCHER
2018	GERAN SANJUNGAN INSENTIF PENERBITAN JURNAL 2018	GERAN SANJUNGAN INSENTIF PENERBITAN JURNAL (UTEM)	26000	MAIN RESEARCHER

PUBLICATIONS (last 5 years)

JOURNAL

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	POTENTIAL OF AA7075 AS A TRIBOLOGICAL MATERIAL FOR INDUSTRIAL APPLICATIONS - A REVIEW	INDIAN JOURNAL OF PURE & APPLIED PHYSICS	UL HAQA, M.I., RAINAA, A., MOHANA, S., ANANDA, A., & ABDOLLAH, M.F.B.
2020	ANTIBACTERIAL PROPERTIES OF LASER SURFACE-TEXTURED TiO ₂ /ZNO CERAMIC COATINGS	CERAMICS INTERNATIONAL	YUSLIZA YUSUF, MARIYAM JAMEELAH GHAZALI, YUICHI OTSUKA, KIYOSHI OHNUMA, SARITA MORAKUL, SUSUMU NAKAMURA, MOHD FADZLI ABDOLLAH
2020	CORRELATION OF TRIBO-MECHANICAL PROPERTIES OF INTERNAL GEOMETRY STRUCTURES OF FUSED FILAMENT FABRICATION 3D-PRINTED ACRYLONITRILE BUTADIENE STYRENE	INDUSTRIAL LUBRICATION AND TRIBOLOGY	NORANI, M.N.M, ABDOLLAH, M.F.B., ABDULLAH, M.I.H.C., AMIRUDDIN, H., RAMLI, F.R., & TAMALDIN, N.
2020	EFFECT OF HYDROGEN ON GRAPHENE GROWTH FROM SOLID WASTE PRODUCTS BY CHEMICAL VAPOUR DEPOSITION: FRICTION COEFFICIENT PROPERTIES	INDUSTRIAL LUBRICATION AND TRIBOLOGY	MAT TAHIR, N.A., ABDOLLAH, M.F.B., TAMALDIN, N., MOHAMAD ZIN, M.R.B., & AMIRUDDIN, H.
2020	EXPERIMENTAL ANALYSIS OF TRIBOLOGICAL PERFORMANCE OF PALM OIL BLENDED WITH HEXAGONAL BORON NITRIDE NANOPARTICLES AS AN ENVIRONMENT-FRIENDLY LUBRICANT	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	ABDOLLAH, M.F.B., AMIRUDDIN, H., & JAMALLULIL, A.D.
2020	INFLUENCE OF PROCESS PARAMETER ON THE HEIGHT DEVIATION OF WELD BEAD IN WIRE ARC ADDITIVE MANUFACTURING	INTERNATIONAL JOURNAL OF MECHANICAL AND PRODUCTIONENGINEERING RESEARCH AND DEVELOPMENT	NOR ANA ROSLI, MOHD RIZAL ALKAHARI, FAIZ REDZA RAMLI & MOHD FADZLI ABDOLLAH
2020	MEASUREMENT OF ROLLER CHAIN WEAR LUBRICATED WITH PALM OIL-BASED HEXAGONAL BORON NITRIDE NANOPARTICLES	INDUSTRIAL LUBRICATION AND TRIBOLOGY	AMIRUDDIN, H., ABDOLLAH, M.F.B., & MOHAMAD NIZAR, M.A.D.
2020	MICROWAVE ASSISTED JATROPHA CURCAS BIODIESEL PRODUCTION AND THE EFFECTS ON THE DIESEL ENGINE PERFORMANCES	IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI ABDOLLAH, NURIN WAHIDAH MOHD ZULKIFLI, NOREFFENDY TAMALDIN
2020	OPTIMISATION OF GRAPHENE GROWN FROM SOLID WASTE USING CVD METHOD	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	NOOR AYUMA MAT TAHIR, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, MOHD RODY BIN MOHAMAD ZIN, HILMI AMIRUDDIN
2020	PERFORMANCE ANALYSIS OF BIODIESEL ENGINE BY ADDITION OF HHO GAS AS A SECONDARY FUEL	JURNAL TRIBOLOGI	SUDRAJAT, A., TAMALDIN, N., MAT YAMIN, A.K., ABDOLLAH, M.F.B., ZAKARIA, M.H., & NYIRENDA, G.
2020	SYNERGISTIC EFFECT OF LOADS AND SPEEDS ON THE DRY SLIDING BEHAVIOUR OF FUSED FILAMENT FABRICATION 3D-PRINTED ACRYLONITRILE BUTADIENE STYRENE PINS WITH DIFFERENT INTERNAL GEOMETRIES	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	ABDOLLAH, M.F.B., NORANI, M.N.M, ABDULLAH, M.I.H.C., AMIRUDDIN, H., RAMLI, F.R., & TAMALDIN, N.
2020	TRIBOLOGICAL ANALYSIS OF A 3D-PRINTED INTERNAL TRIANGULAR FLIP ABS PIN DURING RUNNING-IN STAGE	JURNAL TRIBOLOGI	NORANI, M.N.M, ABDULLAH, M.I.H.C., ABDOLLAH, M.F.B., AMIRUDDIN, H., RAMLI, F.R., & TAMALDIN, N.
2020	TRIBOLOGICAL PERFORMANCE OF THE GRAPHENE SYNTHESIZED FROM FRUIT COVER PLASTIC WASTE AND OIL PALM FIBER USING A CVD METHOD	INDUSTRIAL LUBRICATION AND TRIBOLOGY	MAT TAHIR, N.A., ABDOLLAH, M.F.B., TAMALDIN, N., AMIRUDDIN, H., MOHAMAD ZIN, M.R.B., & KAMIS, S.
2019	COMPARATIVE STUDY OF THE TRIBOLOGICAL BEHAVIOUR OF 3D-PRINTED AND MOULDED ABS UNDER LUBRICATED CONDITION	MATERIALS RESEARCH EXPRESS	HILMI AMIRUDDIN, MOHD FADZLI BIN ABDOLLAH AND NORJANNATUL AINAH NORASHID
2019	FRICTION REDUCTION OF PALM KERNEL ACTIVATED CARBON POLYMER COMPOSITE BY LUBRICANT IMPREGNATION	TRIBOLOGY ONLINE	HILMI AMIRUDDIN, MOHD FADZLI BIN ABDOLLAH, MAZIAH IBRAHIM
2019	GRAPHENE COATINGS TECHNOLOGY ON TRIBOLOGY PERSPECTIVE	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING	NOOR AYUMA MAT TAHIR, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN, MOHD RODY BIN MOHAMAD ZIN
2019	INFLUENCE OF CONTACT PRESSURE AND SLIDING SPEED DEPENDENCE ON THE TRIBOLOGICAL CHARACTERISTICS OF AN ACTIVATED CARBON EPOXY COMPOSITE DERIVED FROM PALM KERNEL UNDER DRY SLIDING CONDITIONS	FRICTION	DAYANG NOR FATIN MAHMUD, MOHD FADZLI BIN ABDOLLAH, NOR AZMMI BIN MASRIAN, NOREFFENDY BIN TAMALDIN, HILMI AMIRUDDIN
2019	LUBRICANT AND TRIBOLOGICAL PROPERTIES OF ZINC COMPOUND IN PALM OIL	INDUSTRIAL LUBRICATION AND TRIBOLOGY	MUHAMMAD AIZAT MD ALIAS, MOHD FADZLI BIN ABDOLLAH, HILMI AMIRUDDIN
2019	OPTIMIZATION ON THE NANOPARTICLES STABILITY IN LIQUID PHASED CONDITION BY USING TAGUCHI ANALYSIS	JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES	MUHAMMAD ILMAN HAKIMI CHUA ABDULLAH, AIMANEZMIR OTHMAN, ROHANA ABDULLAH, MOHD FADZLI BIN ABDOLLAH
2019	THE TRIBOLOGICAL POTENTIAL OF GRAPHENE GROWTH FROM SOLID WASTE	PROGRESS IN INDUSTRIAL ECOLOGY	NOOR AYUMA MAT TAHIR, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN, MOHD RODY BIN MOHAMAD ZIN, TAKAYUKI TOKOROYAMA AND NORITSUGU UMEHARA
2019	WETTABILITY CHARACTERISTICS OF LASER SURFACE TEXTURED PLASMA SPRAYED TiO ₂ /ZNO COATINGS	TRIBOLOGY ONLINE	YUSLIZA YUSUF, MARIYAM JAMEELAH GHAZALI, YUICHI OTSUKA, SARITA MORAKUL, SUSUMU NAKAMURA, KIYOSHI OHNUMA, MOHD FADZLI BIN ABDOLLAH
2018	A BRIEF REVIEW ON THE WEAR MECHANISMS AND INTERFACES OF CARBON BASED MATERIALS	COMPOSITE INTERFACES	NOOR AYUMA MAT TAHIR, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN, MOHD RODY BIN MOHAMAD ZIN
2018	EFFECT OF HYDROGEN ON GRAPHENE GROWTH FROM SOLID WASTE PRODUCTS BY CHEMICAL VAPOUR DEPOSITION: FRICTION COEFFICIENT PROPERTIES	INDUSTRIAL LUBRICATION AND TRIBOLOGY	NOOR AYUMA MAT TAHIR, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, MOHD RODY BIN MOHAMAD ZIN, HILMI AMIRUDDIN
2018	EFFECTS OF BIODIESEL TOWARDS CI ENGINE PERFORMANCE AND EMISSION: A BRIEF REVIEW	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	KHAIRUL AZRI AZLAN, NOREFFENDY TAMALDIN, MOHD

			FADZLI BIN ABDOLLAH
2018	FRICTIONAL CHARACTERISTICS OF LASER SURFACE EXTURED ACTIVATED CARBON CMPOSITE DERIVED FROM PALM KERNEL	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	MARTINI MOHMAD, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN
2018	NUMERICAL STUDIES ON VIBRATION CHARACTERISTICS ON BALL BEARING OPERATED UNDER HEXAGONAL BORON NITRIDE (HBN) NANOPARTICLES	JOURNAL OF MECHANICAL ENGINEERING	NOOR SHAKINAH RUZZLAN APANDI, RAINAH BINTI ISMAIL, MOHD FADZLI BIN ABDOLLAH
2018	PHYSICAL-MECHANICAL PROPERTIES OF PALM KERNEL ACTIVATED CARBON REINFORCED POLYMERIC COMPOSITE: POTENTIAL AS A SELF-LUBRICATING MATERIAL.	JURNAL TRIBOLOGI	MARTINI MOHMAD, MOHD FADZLI BIN ABDOLLAH, AHMED QAYS KHUDHAIR, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN, MOHD RODY BIN MOHAMAD ZIN
2018	THE APPLICATION OF CALCIUM OXIDE FROM WASTE COCKLE FOR BIODIESEL PRODUCTION FROM USED COOKING OIL VIA MICROWAVE HEATING SYSTEM	JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI BIN ABDOLLAH
2018	TRIBOLOGICAL PROPERTIES OF PALM OIL BLENDED WITH ZINC DIOCTYLDITHIOPHOSPHATE	MATERIALS RESEARCH EXPRESS	MUHAMMAD AIZAT MD ALIAS, MOHD FADZLI BIN ABDOLLAH, HILMI AMIRUDDIN
2017	EFFECT OF OPERATING PARAMETERS AND CHEMICAL TREATMENT ON THE TRIBOLOGICAL PERFORMANCE OF NATURAL FIBER COMPOSITES: A REVIEW	PARTICULATE SCIENCE AND TECHNOLOGY	SHUHIMI, F.F., FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA; ABDOLLAH, M.F.B., FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA, CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA; KALAM, M.A., DEPARTMENT OF MECHANICAL ENGINEERING, FACULTY OF ENGINEERING, UNIVERSITI MALAYA, KUALA LUMPUR, MALAYSIA; MASJUKI, H.H., DEPARTMENT OF MECHANICAL ENGINEERING, FACULTY OF ENGINEERING, UNIVERSITI MALAYA, KUALA LUMPUR, MALAYSIA; MUSTAFA, A., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA; MAT KAMAL, S.E., FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA, CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA; AMIRUDDIN, H., FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA, CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, DURIAN TUNGGAL, MELAKA, MALAYSIA
2017	EFFECT OF VANED DIFFUSER ON THE PERFORMANCE OF SMALL TURBOCHARGER	JOURNAL OF MECHANICAL ENGINEERING	
2017	EMISSION CHARACTERISTICS OF HYDROGEN ENRICHMENT IN LIGHT DUTY SINGLE CYLINDER DIESEL ENGINE	ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES	
2017	EXPERIMENTAL INVESTIGATION OF PERFORMANCE AND EMISSIONS OF A STRATIFIED CHARGE CNG DIRECT INJECTION ENGINE WITH TURBOCHARGER	MATEC WEB OF CONFERENCES	HILMI AMIRUDDIN, WAN MOHD FAIZAL WAN MAHMOOD, SHAHRIR ABDULLAH, MOHD RADZI MANSOR AND MOHD FADZLI ABDOLLAH
2017	FRICTIONAL WEAR STABILITY MECHANISMS OF AN ACTIVATED CARBON COMPOSITE DERIVED FROM PALM KERNEL BY PHASE TRANSFORMATION STUDY	INDUSTRIAL LUBRICATION AND TRIBOLOGY	
2017	OPTIMIZATION OF FRICTION PROPERTIES OF KENAF POLYMER COMPOSITE AS AN ALTERNATIVE FRICTION MATERIAL	INDUSTRIAL LUBRICATION AND TRIBOLOGY	
2017	STATISTICAL MODELS FOR PREDICTING WEAR AND FRICTION COEFFICIENT OF PALM KERNEL ACTIVATED CARBON-EPOXY COMPOSITE USING THE ANOVA	INDUSTRIAL LUBRICATION AND TRIBOLOGY	
2017	THE EFFECT OF DIMPLE SIZE ON THE TRIBOLOGICAL PERFORMANCES OF A LASER SURFACE TEXTURED PALM KERNEL ACTIVATED CARBON-EPOXY COMPOSITE	INDUSTRIAL LUBRICATION AND TRIBOLOGY	
2017	THE HBN NANOPARTICLES AS AN EFFECTIVE ENGINE OIL ADDITIVE TO ENHANCE THE DURABILITY AND PERFORMANCE OF A SMALL DIESEL ENGINE	JOURNAL OF MECHANICAL ENGINEERING	ABDULLAH, M.I.H.C., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA; ABDOLLAH, M.F.B., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA; AMIRUDDIN, H., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA

			MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA; TAMALDIN, N., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA; NURI, N.R.M., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA; SALEMAN, A.R., CENTRE FOR ADVANCED RESEARCH ON ENERGY, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA, HANG TUAH JAYA, DURIAN TUNGGAL, MELAKA, MALAYSIA, DEPARTMENT OF NANOMECHANICS, GRADUATE SCHOOL OF ENGINEERING, TOHOKU UNIVERSITY, 6-6-04, ARAMAKI AZA AOBA AOBA-KU, SENDAI, MIYAGI, JAPAN
2017	TRIBOLOGICAL EFFECTS OF NANO-BASED ENGINE OIL DILUTED WITH BIODIESEL FUEL	INTERNATIONAL JOURNAL OF SURFACE SCIENCE AND ENGINEERING	
2017	TRIBOLOGICAL PERFORMANCE OF LOW BLEND DECANTER CAKE BIODIESEL	INDUSTRIAL LUBRICATION AND TRIBOLOGY	

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2020	TRIBOLOGICAL PROPERTIES OF 3D-PRINTED ABS UNDER PARAFFIN OIL LUBRICATION	THE 6TH INTERNATIONAL CONFERENCE AND EXHIBITION ON SUSTAINABLE ENERGY AND ADVANCED MATERIALS (ICE-SEAM2019)	ABDOLLAH M.F.B., AMIRUDDIN H., NORASHID N.A.
2020	CORBICULLA FLUMINEA SHELL AS SOLID CATALYST FOR TRANSESTERIFICATION OF HEVEA BRASILIENSIS OIL VIA MICROWAVE IRRADIATION	7TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'20)	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI BIN ABDOLLAH, FADHILAH SHIKH ANUAR
2020	MICROWAVE ASSISTED JATROPHA CURCAS BIODIESEL PRODUCTION AND THE EFFECTS ON THE DIESEL ENGINE PERFORMANCES	MUCET 2019	MM ZAMBERI, FN ANI, MF ABDOLLAH, NWM ZULKIFLI, N TAMALDIN
2019	OPTIMIZATION OF WASTE COOKING OIL ENHANCED WITH HBN NANOPARTICLES	PROCEEDINGS OF MECHANICAL ENGINEERING RESEARCH DAY 2019	MUHAMMAD ILMAN HAKIMI CHUA ABDULLAH, ALIATUL SYAFIQAH NABILAH MOHAMAD, ABDUL MUNIR HIDAYAT SYAH LUBIS1, ADAM SAMSUDIN, MOHD AFDHAL SHAMSUDIN, MOHD FADZLI BIN ABDOLLAH
2019	FRICITION AND WEAR MECHANISMS OF PALM KERNEL ACTIVATED CARBON POLYMER COMPOSITE BY RAMAN SPECTROSCOPY STUDY	THE 6TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'19)	DAYANG NOR FATIN MAHMUD, HILMI AMIRUDDIN, MOHD FADZLI BIN ABDOLLAH, NOR AZMMI BIN MASRIPAN, MOHD RODY BIN MOHAMAD ZIN, NOREFFENDY TAMALDIN
2019	OPTIMIZATION OF PROCESS PARAMETERS FOR SYNTHESIS OF GRAPHENE ON COPPER BY OIL PALM FIBER SOURCE	THE 6TH MECHANICAL ENGINEERING RESEARCH DAY (MERD'19)	NOOR AYUMA MAT TAHIR, MOHD RODY BIN MOHAMAD ZIN, MOHD FADZLI BIN ABDOLLAH, NOREFFENDY TAMALDIN, HILMI AMIRUDDIN
2019	HETEROGENEOUS CATALYST FROM WHITE CLAMS FOR BIODIESEL PRODUCTION	6TH MECHANICAL ENGINEERING RESEARCH DAY (MERD 2019)	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI BIN ABDOLLAH, NUR HAZWANI MOKHTAR
2019	HETEROGENEOUS CATALYST FROM WHITE CLAMS FOR BIODIESEL PRODUCTION	6TH MECHANICAL ENGINEERING RESEARCH DAY	MAHANUM MOHD ZAMBERI, FARID NASIR ANI, MOHD FADZLI BIN ABDOLLAH, NUR HAZWANI MOKHTAR

BOOK, BOOK CHAPTER, OTHER PUBLICATIONS

YEAR	TITLE BOOK	TITLE CHAPTER BOOK	TYPE OF PUBLICATIONS	AUTHORS
2021	TRIBOLOGY AND SUSTAINABILITY	MINIMUM QUANTITY LUBRICATION FOR SUSTAINABLE MANUFACTURING	BOOK_CHAPTER	MOHD FADZLI BIN ABDOLLAH
2021	TRIBOLOGY OF POLYMER AND POLYMER COMPOSITES FOR INDUSTRY 4.0	TRIBOLOGICAL BEHAVIOUR OF NATURAL FIBRE BASED POLYMER COMPOSITES	BOOK_CHAPTER	MOHD FADZLI BIN ABDOLLAH

PROFESSIONAL MEMBERSHIPS / LEARNED SOCIETY

YEAR	ROLE	INSTITUTION	LEVEL
2008	GRADUATE MEMBER	INSTITUT JURUTERA MALAYSIA (IEM)	KEBANGSAAN

POSTGRADUATE SUPERVISION (last 5 years)

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	NOOR AYUMA BINTI MAT TAHIR	DOCTORATE	MAIN SUPERVISOR	GRADUATED (2020)
2	MUHAMMAD ILMAN HAKIMI CHUA B. ABDULLAH	DOCTORATE	MAIN SUPERVISOR	GRADUATED (2016)
3	MOHAMAD NORDIN BIN MOHAMAD NORANI	DOCTORATE	MAIN SUPERVISOR	ACTIVE
4	NOR ANA BINTI ROSLI	DOCTORATE	CO-SUPERVISOR	ACTIVE
5	MUHAMMAD AIZAT BIN MD ALIAS	MASTERS	MAIN SUPERVISOR	GRADUATED (2021)
6	LEE SHING CHUAN	MASTERS	CO-SUPERVISOR	GRADUATED (2020)
7	DAYANG NOR FATIN BINTI MAHMUD	MASTERS	MAIN SUPERVISOR	GRADUATED (2020)
8	MARTINI BINTI MOHMAD	MASTERS	MAIN SUPERVISOR	GRADUATED (2019)
9	NOOR SHAKINAH BINTI RUDZLAN APANDI	MASTERS	CO-SUPERVISOR	GRADUATED (2019)
10	ZAILINDA BINTI ABDULLAH	MASTERS	CO-SUPERVISOR	GRADUATED (2019)
11	FAIRUZ FAZILLAH BINTI SHUHIMI	MASTERS	MAIN SUPERVISOR	GRADUATED (2017)
12	ASHAFI'E BIN MUSTAFA	MASTERS	MAIN SUPERVISOR	GRADUATED (2017)
13	ADLI ZIL IKRAM BIN ABDULLAH	MASTERS	MAIN SUPERVISOR	GRADUATED (2017)
14	NOOR AYUMA BINTI MAT TAHIR	MASTERS	MAIN SUPERVISOR	GRADUATED (2016)
15	MOHD HAFIDZ BIN ZAKARIA	MASTERS	CO-SUPERVISOR	GRADUATED (2014)
16	SHANAHS BINTI SHAHARUDDIN	MASTERS	MAIN SUPERVISOR	ACTIVE
17	NUR AQILA SYAMIMI BINTI AMIR HAMZAH	MASTERS	CO-SUPERVISOR	ACTIVE
18	MUHAMMAD NUR AKMAL BIN KAZIM	MASTERS	MAIN SUPERVISOR	ACTIVE

CONSULTANCY

YEAR	TITLE OF PROJECT	AGENCY	ROLES	LEVEL
2019	PLANT SUSTAINABILITY THROUGH WEAR DEBRIS AND OIL ANALYSIS	LUBETRAIN RESOURCES SDN.BHD.	MEMBER	NATIONAL
2020	PLANT SUSTAINABILITY THROUGH WEAR DEBRIS AND OIL ANALYSIS	INTEKMA ENGINEERING SERVICES & TRADING SDN BHD	MEMBER	NATIONAL
2020	PLANT SUSTAINABILITY THROUGH WEAR DEBRIS AND OIL ANALYSIS, MLA 1 (DORSETT HARTAMAS, KUALA LUMPUR)	PN. JUNAIDAH IBRAHIM	MEMBER	NATIONAL
2020	ENHANCING PREDICTIVE MAINTENNACE THRU WEAR DEBRIS & OIL ANALYSIS-MLA 2	LUBETRAIN RESOURCES SDN BHD	MEMBER	NATIONAL

INTELLECTUAL PROPERTIES

YEAR	INVENTION NAME	TYPE
2019	GRAPHENE FILM GROWN FROM SOLID WASTE PRODUCTS	COPYRIGHT
2016	CARE	TRADE MARKS
2016	AGRO-WASTE FOR SUSTAINABLE SELF-LUBRICATING MATERIALS	COPYRIGHT
2014	EMERGING LUBRICATION TECHNOLOGY OF BEARING MATERIALS	COPYRIGHT
2014	NANO-OIL FOR A GREENER FUTURE	COPYRIGHT

STAFF PROFILE

KATEGORI MAKLUMAT	PEJABAT DIRUJUK
PERSONAL INFORMATION	BAHAGIAN SUMBER MANUSIA, PEJABAT PENDAFTAR
ACADEMIC QUALIFICATON	
PROFESSIONAL MEMBERSHIP / LEARNED SOCIETY	
TEACHING EXPERIENCE	BAHAGIAN PENGURUSAN AKADEMIK, PEJABAT PENDAFTAR
<ul style="list-style-type: none"> • UNDERGRADUATES 	
<ul style="list-style-type: none"> • POSTGRADUATES 	PUSAT PENGAJIAN SISWAZAH (PPS)
POSTGRADUATE SUPERVISION	PUSAT PENGAJIAN SISWAZAH (PPS)
FIELD OF INTEREST	PUSAT PENGURUSAN PENYELIDIKAN DAN INOVASI (CRIM)
LIST OF GRANTS	
LIST OF RESEARCH AWARDS	PUSAT PENGKOMERSILAN (UCC)
INTELLECTUAL PROPERTIES	
COMMERCIALIZATION	
PUBLICATIONS	PERPUSTAKAAN LAMAN HIKMAH
CONSULTANCY	PUSAT JARINGAN INDUSTRI DAN MASYARAKAT (PJIM)