

STAFF PROFILE

NAME DR. SITI HAJAR BINTI SHEIKH MD FADZULLAH

FACULTY / CENTRE FACULTY OF MECHANICAL ENGINEERING

DESIGNATION : SENIOR LECTURER

CURRENT POSITION DIRECTOR - UTEM INTERNATIONAL CENTRE
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EMAIL



ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2015	KEDOKTORAN FALSAFAH (PH.D)	UNIVERSITY OF LIVERPOOL
2006	SARJANA (MASTERS)	IMPERIAL COLLEGE LONDON
2003	SARJANA MUDA KEPUJIAN(BACHELOR HONS)	UNIVERSITI SAINS MALAYSIA

FIELD OF INTEREST

COMPOSITES; IMPACT ENGINEERING; ADVANCED MATERIALS

TEACHING EXPERIENCE (last 5 years)

UNDERGRADUATES

SESSION	COURSE
2022/2023	BMCG1011 - MECHANICAL ENGINEERING LABORATORY I
2022/2023	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2022/2023	BMFG1213 - ENGINEERING MATERIALS
2021/2022	BMCG2312 - MANUFACTURING PROCESS
2021/2022	BMCG2323 - MANUFACTURING PROCESS
2021/2022	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2020/2021	BMCG1011 - MECHANICAL ENGINEERING LABORATORY I
2020/2021	BMCG2312 - MANUFACTURING PROCESS
2020/2021	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2020/2021	BMFG1213 - ENGINEERING MATERIALS
2019/2020	BMCG2323 - MANUFACTURING PROCESS
2019/2020	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2019/2020	BMFG1213 - ENGINEERING MATERIALS

2019/2020	DMCB2423 - MATERIAL SCIENCE
2018/2019	BMCG2312 - MANUFACTURING PROCESS
2018/2019	BMCG3011 - MECHANICAL ENGINEERINGLABORATORY III
2018/2019	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2018/2019	BMFG1213 - ENGINEERING MATERIALS
2018/2019	DMCB2423 - MATERIAL SCIENCE
2017/2018	BMCG4423 - COMPOSITE AND ADVANCED MATERIALS
2017/2018	BMCU3013 - INTEGRATED DESIGN PROJECT

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POSTGRADUATES

SESSION	COURSE
2021/2022	MMCU5953 - ADVANCED MATERIALS CHARACTERIZATION
2020/2021	PPSW6013 - RESEARCH METHODOLOGY
2019/2020	PPSW6013 - RESEARCH METHODOLOGY
2018/2019	BMCG2312 - PROSES PEMBUATAN
2018/2019	BMCG4423 - KOMPOSIT DAN BAHAN TERMAJU
2018/2019	PPSW6013 - RESEARCH METHODOLOGY

LIST OF GRANTS *(last 5 years)*

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2020	DEVELOPMENT OF THERMOPLASTIC COMPOSITES FPR AEROSPACE ENGINEERING	GERAN INDUSTRI (INDUSTRY/PRIVATE)	100000	CO-RESEARCHER
2020	A COMPREHENSIVE FUNCTIONALITY AND RELIABILITY STUDY ON SUBSTITUTE MATERIAL FOR DURABLE STRETCHABLE CONDUCTIVE INK (SCI) IN ELECTRONIC INDUSTRY	GERAN INDUSTRI (INDUSTRY/PRIVATE)	510800	CO-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/PRIVATE)	314930	CO-RESEARCHER
2019	INTERFACE DISSOCIATION MECHANISM IN MULTIWALLED CARBON NANOTUBE-FILLED ELECTRICALLY CONDUCTIVE ADHESIVE BY HYGROTHERMAL EFFECT	GERAN FRGS (NATIONAL)	61000	MAIN RESEARCHER
2019	INVESTIGATION OF MECHANICAL BUCKLING BEHAVIOR OF LARGE PASSENGER AIRCRAFT NACELLE DESIGN SUBJECTED TO AXIAL COMPRESSION	GERAN FRGS (NATIONAL)	100000	CO-RESEARCHER
2019	ENHANCING INTERFACIAL SURFACE INTERACTION OF EUTECTIC AU-SI FILLER IN CONDUCTING POLYMER COMPOSITES UTILIZING THERMOSONIC ENERGY FOR HIGH ELECTRICAL PROPERTIES PERFORMANCE	GERAN FRGS (NATIONAL)	118000	CO-RESEARCHER
2018	DESIGN AND DEVELOPMENT OF CONE LAYING SYSTEM FOR ROAD MAINTENANCE USAGE	GERAN INDUSTRI (INDUSTRY/PRIVATE)	74000	CO-RESEARCHER

PUBLICATIONS *(last 5 years)*

JOURNAL

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	FATIGUE CHARACTERISTIC AND WEIBULL ANALYSIS OF SUSTAINABLE RUBBERWOOD FLOUR/RECYCLED POLYPROPYLENE COMPOSITES	INTERNATIONAL JOURNAL OF AUTOMOTIVE AND MECHANICAL ENGINEERING	ZALEHA MUSTAFA, T.M.I NAWI, S.H.S.M. FADZULLAH, Z.SHAMSUDIN, S.D. MALINGAM AND T. RATANAWILAI
2021	HYBRID ELECTRICALLY CONDUCTIVE ADHESIVE (HECA) PROPERTIES AS A FUNCTION OF HYBRID FILLER RATIO WITH INCREASING TOTAL FILLER LOADING	ELECTRONIC MATERIALS LETTERS	ADNAN, Z., FADZULLAH, S.H.S.M., OMAR, G., MUSTAFA, Z., RAMLI, M.B., RAZALI, N. AND KAMAROLZAMAN, A.A.
2021	THE EVOLUTIONS OF MICROSTRUCTURE IN PRESSURELESS SINTERED SILVER DIE ATTACH MATERIAL	INTERNATIONAL JOURNAL OF NANOELECTRONICS AND MATERIALS	S.R. ESA, G. OMAR, S.H. SHEIKH MD FADZULLAH, K.S SIO AND B. ABDUL RAHIM
2020	BUCKLING OF IMPERFECT CONE-CYLINDER TRANSITION SUBJECTED TO EXTERNAL PRESSURE	INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING	M.S. ISMAIL, O. IFAYEFUNMI, S.H.S.M. FADZULLAH, M. JOHAR
2020	DIFFUSION MECHANISM OF SILVER PARTICLES IN POLYMER BINDER FOR DIE ATTACH INTERCONNECT TECHNOLOGY	INTERNATIONAL JOURNAL OF NANOELECTRONICS AND MATERIALS	ESA S.R., OMAR G., SHEIKH MD FADZULLAH S.H., SIOW K.S., ABDUL RAHIM B., ÇOŞUT B.
2020	EFFECT OF HYBRIDIZATION ON THE FUNCTIONAL PROPERTIES OF AGMF-MWCNT-FILLED ELECTRICALLY CONDUCTIVE ADHESIVE	JOURNAL OF ELECTRONIC MATERIALS	FADZULLAH S.H.S.M., ADNAN Z., OMAR G., MUSTAFA Z., MASRIPAN N.A.B., MANSOR M.R., SALIM M.A.
2020	LOW VELOCITY IMPACT BEHAVIOUR OF PINEAPPLE LEAF FIBRE REINFORCED POLYLACTIC ACID BIOCOMPOSITES	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	S.H. SHEIKH MD FADZULLAH, S.N.N. RAMLI, Z. MUSTAFA, A.S. RAZALI, D. SIVAKUMAR AND I. ISMAIL
2020	OPTIMIZATION OF DRILLING PROCESS PARAMETERS ON DELAMINATION FACTOR OF JUTE REINFORCED UNSATURATED POLYESTER COMPOSITE USING BOX-BEHNKEN DESIGN OF EXPERIMENT	JOURNAL OF MECHANICAL ENGINEERING AND SCIENCES	MUSTAFA Z., IDRUS N.H., MOHD HADZLEY A.B., SIVAKUMAR D., NORAZLINA M.Y., FADZULLAH S.H.S.M., ANJANG A., THONGKAEW K.
2020	THE EFFECT OF CHEMICAL SURFACE TREATMENT ON MECHANICAL PERFORMANCE OF ELECTRICALLY CONDUCTIVE ADHESIVES	EVERGREEN	MD. FADZULLAH S.H.S., NASARUDDIN M.M., MUSTAFA Z., RAHMAN W.A.W.A., OMAR G., SALIM M.A., MANSOR M.R.
2020	THE INFLUENCES OF FIBRE PARAMETERS ON THE TENSILE AND FLEXURAL RESPONSE OF LIGHTWEIGHT THERMOPLASTIC KENAF FIBRE REINFORCED METAL COMPOSITES	JOURNAL OF NATURAL FIBERS	SIVAKUMAR DHAR MALINGAM, NG LIN FENG, LEE CHUN KHOON, SITI HAJAR SHEIKH MD FADZULLAH, ZALEHA MUSTAFA, AND SIVARAO SUBRAMONIAN
2019	BUCKLING OF IMPERFECT CYLINDER-CONE-CYLINDER TRANSITION UNDER AXIAL COMPRESSION	THIN-WALLED STRUCTURES	M.S. ISMAIL, O. IFAYEFUNMI, S.H.S.M. FADZULLAH
2019	EFFECT OF HIGH THERMAL STRESS ON THE	SYNTHETIC METALS	AZRAN, M.M.,

	ORGANIC LIGHT EMITTING DIODES (OLEDs) PERFORMANCES		MANSOR, M.R., OMAR, G., FADZULLAH, S.H.S.M., ESA, S.R., LIM, L.M., SIVAKUMAR, D., NORDIN, M.N.A
2019	EFFECT OF WATER ABSORPTION ON THE MECHANICAL PROPERTIES OF CROSS-PLY HYBRID PSEUDO- STEM BANANA/GLASS FIBRE REINFORCED POLYPROPYLENE COMPOSITE	MATERIALS RESEARCH EXPRESS	ZULKAFI, NORIZZATI, SIVAKUMAR DHAR MALINGAM, SITI HAJAR SHEIKH MD FADZULLAH, ZALEHA MUSTAFA, KAMARUL ARIFFIN ZAKARIA, AND SIVARAOS SUBRAMONIAN.
2019	MECHANICAL PROPERTIES OF CROSS-PLY BANANA-GLASS FIBRE REINFORCED POLYPROPYLENE COMPOSITES	DEFENCE S&T TECHNICAL BULLETIN	NORIZZATI ZULKAFI, SIVAKUMAR DHAR MALINGAM, SITI HAJAR SHEIKH MD FADZULLAH, ZALEHA MUSTAFA, KAMARUL ARIFFIN ZAKARIA & SIVARAO SUBRAMONIAN
2019	MECHANICAL PROPERTIES OF PLAIN WOVEN KENAF/GLASS FIBER REINFORCED POLYPROPYLENE HYBRID COMPOSITES	MATERIALS TESTING	SIVAKUMAR DHAR MALINGAM, KATHIRAVAN SUBRAMANIAM, NG LIN FENG, SITI HAJAR SHEIKH MD FADZULLAH, SIVARAOS SUBRAMONIAN,
2019	PRELIMINARY INVESTIGATION ON MULTI-WALLED CARBON NANOTUBES FILLED EPOXY COMPOSITE AS ELECTRICALLY CONDUCTIVE ADHESIVE	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)	M.M. NASARUDDIN, S.H.S.M. FADZULLAH, G. OMAR
2019	QUASI AND DYNAMIC IMPACT PERFORMANCE OF HYBRID CROSS-PLY BANANA/GLASS FIBRE REINFORCED POLYPROPYLENE COMPOSITES	MATERIALS RESEARCH EXPRESS	ZULKAFI, N., MALINGAM, S. D., FADZULLAH, S. H. S. M., & RAZALI, N.
2019	STUDY OF THERMAL CONDUCTIVITY AND HEAT TRANSFER COEFFICIENT OF MWCNT-OH / DEIONISED WATER-ETHYLENE GLYCOL BASED NANOFLUIDS	DEFENCE S AND T TECHNICAL BULLETIN	ABDULLAH A., MOHAMAD I.S., HASHIM A.Y.B., MD FADZULLAH S.H.S., ABIDIN S.Z.
2019	THE EFFECT OF ASPECT RATIO ON MULTI-WALLED CARBON NANOTUBES FILLED EPOXY COMPOSITE AS ELECTRICALLY CONDUCTIVE ADHESIVE	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	M.M. NASARUDDIN, S.H. SHEIKH MD FADZULLAH, G. OMAR, Z. MUSTAFA, M. RAMLI, M.Z. AKOP, I.S. MOHAMAD AND B. OşUT
2018	ANALYSIS OF MECHANISMS RESPONSIBLE FOR THE FORMATION OF DARK SPOTS IN ORGANIC LIGHT EMITTING DIODES (OLEDs): A REVIEW	SYNTHETIC METALS	AZRAIN, M. M.; MANSOR, M. R.; FADZULLAH, S. H. S. M.; OMAR, G.; SIVAKUMAR, D.; LIM, L. M.; NORDIN, M. N. A.
2018	HIGH FREQUENCY DIELECTRIC ANALYSIS OF CARBON NANOFIBERS FROM PAN PRECURSOR AT DIFFERENT PYROLYSIS TEMPERATURES	MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	N. A. MUNAJAT A. H. NURFAIZEY A. A. M. BAHAR K. Y. YOU S. H. S. M. FADZULLAH G. OMAR
2018	INFLUENCE OF CURING TEMPERATURE ON MECHANICAL PROPERTIES OF WOVEN JUTE REINFORCED POLYESTER COMPOSITE	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	MUSTAFA Z., IDRUS N.H., FADZULLAH S.H.S.M., HADZLEY A.B.,

			SHAMSUDIN Z., RAZALI N.S.A.M., OMAR N.I.
2018	INFLUENCE OF KENAF FABRIC ON THE TENSILE PERFORMANCE OF ENVIRONMENTALLY SUSTAINABLE FIBRE METAL LAMINATES	ALEXANDRIA ENGINEERING JOURNAL	SIVAKUMAR, D., NG, L.F., ZALANI, N.F.M., SELAMAT, M.Z., AB GHANI, A.F. & FADZULLAH, S.H.S.M.
2018	THE EFFECTS OF DIFFERENT CARBONIZATION TEMPERATURES ON THE PROPERTIES OF ELECTROSPUN CARBON NANOFIBRE FROM POLYACRYLONITRILE (PAN) PRECURSOR	JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES	NURAIN ABDUL MUNAJAT, ABDUL HAMID NURFAIZEY, MOHD HAIZAL MOHD HUSIN, SITI HAJAR SHEIKH MD. FADZULLAH, GHAZALI OMAR, MOHD AZLI SALIM

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2021	THERMAL CONDUCTIVITY OF RICE STRAW POLYPROPYLENE PARTICLEBOARD	10TH AIC 2020	I ISMAIL, N FITRI, MURSAL, S H S MD FADZULLAH
2019	INVESTIGATION ON THE EFFECTS OF ELECTROSPINNING DISTANCE AND APPLIED VOLTAGE ON MORPHOLOGY OF POLY (VINYL ALCOHOL) ELECTROSPUN NANOFIBRES	MECHANICAL ENGINEERING RESEARCH DAY 2019	ABDUL HAMID NURFAIZEY, FATIN HANANI ABDULLAH, SITI HAJAR SHEIKH MD FADZULLAH, ZALEHA MUSTAFA, MOHD AZLI SALIM, MOHD ZAID AKOP

PROFESSIONAL MEMBERSHIPS / LEARNED SOCIETY

YEAR	ROLE	INSTITUTION	LEVEL
2020	MEMBER	INSTITUTE OF MATERIALS MALAYSIA	KEBANGSAAN
2007	MEMBER	LEMBAGA JURUTERA MALAYSIA (BEM)-(ENGINEERS ACT 1967)	KEBANGSAAN

POSTGRADUATE SUPERVISION (*last 5 years*)

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	SITI RAHMAH ESA	DOCTORATE	CO-SUPERVISOR	GRADUATED (2022)
2	MOHD SHAHROM BIN ISMAIL	DOCTORATE	CO-SUPERVISOR	GRADUATED (2021)
3	ZURAIMI BIN RAMLE	DOCTORATE	MAIN SUPERVISOR	ACTIVE
4	FAIRUZ MARDHIAH BINTI MAHIDAN	MASTERS	CO-SUPERVISOR	GRADUATED (2021)
5	NORIZZATI BINTI ZULKAFLI	MASTERS	CO-SUPERVISOR	GRADUATED (2020)
6	MUHAMMAD AZRAIN BIN MOHAMMAD	MASTERS	CO-SUPERVISOR	GRADUATED (2019)
7	MUHAMAD MUAZ BIN NASARUDDIN	MASTERS	MAIN SUPERVISOR	GRADUATED (2019)
8	NURAIN BINTI ABDUL MUNAJAT	MASTERS	CO-SUPERVISOR	GRADUATED (2018)
9	SITI NUR RABIATUTADAWIAH BINTI RAMLI	MASTERS	MAIN SUPERVISOR	GRADUATED (2018)
10	ZAINALFIRDAUS BIN ADNAN	MASTERS	MAIN SUPERVISOR	ACTIVE

CONSULTANCY

YEAR	TITLE OF PROJECT	AGENCY	ROLES	LEVEL
2018	CONSULTATION ON CHARACTERIZATION & ANALYSIS TECHNIQUE USING XRD AND DSC	UNIVERSITI TELEKOM SDN BHD	MEMBER	NATIONAL