



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

STAFF PROFILE

NAME DR. KHAIRUL FADZLI BIN SAMAT

FACULTY / CENTRE FAKULTI KEJURUTERAAN PEMBUATAN

DESIGNATION PENSYARAH UNIVERSITI

CURRENT POSITION PENYELARAS - PEJABAT PENOLONG NAIB CANSOLOR (PEMBANGUNAN & PENGURUSAN FASILITI)

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ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2020	KEDOKTORAN FALSFAH (PH.D)	TOHOKU UNIVERSITY
2012	SARJANA (MASTERS)	UNIVERSITI TEKNOLOGI MALAYSIA
2009	SARJANA MUDA (BACHELOR)	UNIVERSITI TEKNOLOGI MALAYSIA

FIELD OF INTEREST

NANOCOMPOSITES FILM, THERMOELECTRIC MATERIALS

TEACHING EXPERIENCE *(last 5 years)*

UNDERGRADUATES

SESSION	COURSE
2021/2022	BKKM1931 - ENVIRONMENTAL AND GREEN TECHNOLOGY
2021/2022	BMFA2123 - DYNAMICS
2020/2021	BKKM1911 - SUSTAINABILITY OF GREEN PRACTICES
2020/2021	BKKM1931 - ENVIRONMENTAL AND GREEN TECHNOLOGY
2020/2021	BMFA2123 - DYNAMICS
2020/2021	BMFR2213 - THERMOFLUIDS
2020/2021	BMFR3223 - CAD/CAM/CAE
2020/2021	BMFR4423 - CONCURRENT ENGINEERING

POSTGRADUATES

SESSION	COURSE
2020/2021	MMFU5013 - SUSTAINABLE PRODUCT DESIGN AND MANUFACTURING

LIST OF GRANTS (*last 5 years*)

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
2020	ENHANCEMENT OF THERMOELECTRIC NANOCOMPOSITE FILM FOR IMPROVEMENT OF HIGH ENERGY HARVESTER IN AGRICULTURE MICRO-TEMPERATURE SENSOR	SHORT TERM (UTEM)	20000	MAIN RESEARCHER
2020	PREDICTING ADOPTION OF INTERNET OF THINGS (IOT) BASED FERTIGATION SYSTEM FOR CHILI CULTIVATION: INTEGRATING INNOVATION CHARACTERISTICS TO THE TECHNOLOGY ACCEPTANCE MODEL	SHORT TERM (UTEM)	7000	CO-RESEARCHER
2020	ENHANCEMENT OF MECHANICAL PERFORMANCE OF PORTABLE OIL SPILL SKIMMER FOR OIL SPILLS RESPONSE & RECOVERY (OSRR) ACTIVITIES	SHORT TERM (UTEM)	20000	CO-RESEARCHER

PUBLICATIONS (last 5 years)**JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2020	CYCLIC VOLTAMMETRY AND GALVANOSTATIC CHARGE-DISCHARGE ANALYSES OF POLYANILINE/GRAPHENE OXIDE NANOCOMPOSITE BASED SUPERCAPACITOR	MALAYSIAN JOURNAL ON COMPOSITES SCIENCE AND MANUFACTURING	M. A. AZAM, RADZI, M. I., MUPIT, M., OSMAN, H., MUNAWAR, R. F., SAMAT, K. F., MOHD SUAN, M. S., ISOMURA, K., & ISLAM, M. R.
2020	DESIGN AND FABRICATION OF ON-CHIP MICRO-THERMOELECTRIC COOLER BASED ON ELECTRODEPOSITION PROCESS	IEEE TRANSACTIONS ON SENSORS AND MICROMACHINES	ENJU J., TRUNG N.H., SAMAT K.F., CHEN P.-H., ONO T.
2020	THERMOELECTRICAL PROPERTIES OF SILICON SUBSTRATES WITH NANOPORES SYNTHESIZED BY METAL-ASSISTED CHEMICAL ETCHING	NANOTECHNOLOGY	YIJIE LI, NGUYEN VAN TOAN, ZHUQING WANG, KHAIRUL FADZLI SAMAT, TAKAHITO ONO
2019	ENHANCEMENT IN THERMOELECTRIC PERFORMANCE OF ELECTROCHEMICALLY DEPOSITED PLATINUM-BISMUTH TELLURIDE NANOCOMPOSITE	ELECTROCHIMICA ACTA	KHAIRUL FADZLI BIN SAMAT, TRUNG N.H., ONO T.
2018	ENHANCING GRAPHITIC CARBON CONTENT OF CARBONBASED ELECTRODE MATERIALS BY PULSED ELECTROPHORETIC DEPOSITION FOR ELECTROCHEMICAL CAPACITOR	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	LAU K.T., AZAM M.A., MANAF M.E.A., ZAIMI M., SUAN M.S.M., YAACOB N.A., NARAYANASAMY J., SAMAT K.F.
2018	ENHANCING GRAPHITIC CARBON CONTENT OF CARBONBASED ELECTRODE MATERIALS BY PULSED ELECTROPHORETIC DEPOSITION FOR ELECTROCHEMICAL CAPACITOR	JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	LAU K.T., AZAM M.A., MANAF M.E.A., ZAIMI M., SUAN M.S.M., YAACOB N.A., NARAYANASAMY J., SAMAT K.F.
2017	GRID INDEPENDENT STUDY ON TETRAHEDRAL AND HEXAHEDRAL DOMINANT ELEMENTS TYPES IN FINITE ELEMENT ANALYSIS OF INTEGRATED CIRCUIT PACKAGE	JURNAL TEKNOLOGI	FADZLI SAMAT K., JAAFAR R., IDRIS M.I., ONG MAIDIN V.S., KASIM M.S., ABDULLAH Z.

CONFERENCE

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2020	CARBON BLACK NANOPARTICLES INCLUSION IN BISMUTH TELLURIDE FILM FOR MICRO THERMOELECTRIC GENERATOR APPLICATION	33RD IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, MEMS 2020	SAMAT K.F., LI Y., VAN TOAN N., ONO T.
2020	HIGH PERFORMANCE MICRO-THERMOELECTRIC GENERATOR BASED ON METAL DOPED ELECTROCHEMICAL DEPOSITION	33RD IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, MEMS 2020	VAN TOAN N., TUOI T.T.K., SAMAT K.F., SUI H., INOMATA N., TODA M., ONO T.
2019	NANOENGINEERED THERMOELECTRIC ENERGY DEVICES FOR IOT SENSING APPLICATIONS	11TH SYMPOSIUM ON SEMICONDUCTOR PROCESS INTEGRATION - 236TH ECS MEETING	ONO T., NGUYEN T.H., SAMAT K.F., LI J., TOAN N.V.

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)