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A. PERSONAL DETAILS

UMK JOIN DATE	17-Mar-2013
DATE OF APPOINTMENT FOR CURRENT POSITION	17-Mar-2013
DATE OF CONFIRMATION FOR CURRENT POSITION	13-May-2015
EDUCATION(S)	<ul style="list-style-type: none"> • (2019) UNIVERSITI SAINS MALAYSIA IJAZAH DOKTOR FALSAFAH KEJUURUTERAAN • (2011) UNIVERSITI SAINS MALAYSIA IJAZAH SARJANA KEJUURUTERAAN BAHAN BAHAN TERMAJU • (2009) UNIVERSITI TEKNOLOGI MALAYSIA IJAZAH SARJANA MUDA KEJUURUTERAAN BAHAN KEJUURUTERAAN MEKANIKAL • (2003) SMK BALING SPM
GROUP OF EXPERTISE	<ul style="list-style-type: none"> • Ceramics • Optical Material • Solar Energy Technology • Water Treatment
AWARD(S)	
WORKING EXPERIENCE(S)	<ul style="list-style-type: none"> • JURUTERA SILTERRA MALAYSIA 01-Mar-2011-01-Mar-2013
PROFESIONAL MEMBERSHIP(S)	

B. TEACHING-LEARNING ACTIVITIES

COURSES TAUGHT	<ul style="list-style-type: none"> • EFT1053 - CALCULUS • EFT1063 - ALGEBRA • EFT1083 - BASICS MATHEMATHIC • EFT1103 - BASIC PHYSICS • EFT1152 - EARTH MATERIAL • EFT2143 - RESEARCH METHODOLOGY AND SCIENTIFIC WRITING • EME3223 - MATERIALS AND FABRICATION OF SEMICONDUCTOR DEVICES • EME4223 - SEMICONDUCTOR DEVICE • EME4313 - BIOCOMPOSITE • EMT2102 - CERAMIC MATERIALS IN INDUSTRY • EMT3212 - NANOTECHNOLOGY • EMT3243 - RESEARCH PROJECT I • EMT4198 - INDUSTRIAL TRAINING • EMT4253 - RESEARCH PROJECT II • FFT1044 - GENERAL CHEMISTRY • JFT20302 - STUDENT IN ENTERPRISE PROGRAMME • JTE23803 - ENERGY LITERACY • MPT00403 - PHYSICS
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C. RESEARCH AND DEVELOPMENT

<p>JOURNAL(S)</p>	<ol style="list-style-type: none"> 1. CHARACTERISATION OF SILICA DERIVED FROM BAMBOO LEAVES ASH (GIGANTOCHLOA ALBOCILATA); PRELIMINARY RESULTS FOR MOISTURE CONTENT TEST ON RUBBER WOOD CO 2024 2. COMPARISON BETWEEN NODEMCU ESP8266 AND UNO R3 FOR SOFTWARE DEVELOPMENT USING UBIDOTS CORRESPNDG 2024 3. PRELIMINARY STUDY ON DIFFERENT CALCINATION TEMPERATURE OF TiO₂/EGGSHELL COMPOSITE USING SOL-GEL METHOD CORRESPNDG 2024 4. PERFORMANCE OF DYE-SENSITIZED SOLAR CELL (DSSC) USING CARBON BLACK-TiO₂ COMPOSITE AS COUNTER ELECTRODE SUBJECTED TO DIFFERENT ANNEALING TEMPERATURES MAIN 2020-04 5. PERFORMANCE OF DYE-SENSITIZED SOLAR CELL (DSSC) USING CARBON BLACK-TiO₂ COMPOSITE AS COUNTER ELECTRODE SUBJECTED TO DIFFERENT ANNEALING TEMPERATURES MAIN 2020-04 6. OPTICAL AND STRUCTURAL PROPERTIES OF CONTROLLED PH VARIATION ON ZINC OXIDE NANOSTRUCTURED VIA HYDROTHERMAL METHOD CO 2021-10 7. STUDIES ON THE OPTICAL AND PHOTOELECTRIC PROPERTIES OF ANTHOCYANIN AND CHLOROPHYLL AS DIHYBRID SENSITIZER IN DYE SENSITIZED SOLAR CELL (DSSC) MAIN 2023 8. EXTRACTION OF SILICA FROM BAMBOO LEAVES ASH (BAMBUSOIDEAE) USING HYDROCHLORIC ACID AND NITRIC ACID CO 2023
<p>PROCEEDING(S)</p>	<ol style="list-style-type: none"> 1. EFFICIENCY PREDICTION OF E. CONFERTA IN NATURAL-SENSITIZED DYE-SENSITIZED SOLAR CELLS USING K-NEAREST NEIGHBORS CO 2024 2. SMART SOLAR GENERATOR FOR HOME APPLICATION BASED ON WIRELESS SENSOR NETWORK CORRESPNDG 2024-03 3. PERFORMANCE OF P. BETLE EXTRACTION AS SENSITIZER IN DYE-SENSITIZED SOLAR CELLS (DSSCS) MAIN 2020-12-28 4. OPTICAL AND STRUCTURAL PROPERTIES OF CONTROLLED PH VARIATION ON ZINC OXIDE NANOSTRUCTURED VIA HYDROTHERMAL METHOD CO 2022 5. EFFICIENT ECO-FRIENDLY HYBRID NATURAL DYES AS SENSITIZER FOR DYE-SENSITIZED SOLAR CELL (DSSC) APPLICATION MAIN 2022-06 6. INFLUENCE OF MILLING PARAMETERS ON THE CHARACTERISTICS OF ALUMINA-TITANIA NANOCOMPOSITE PREPARED BY HIGH-ENERGY BALL MILLING CO 2023
<p>BOOK(S)</p>	
<p>CHAPTER(S)</p>	
<p>OTHER(S)</p>	
<p>RESEARCH(S)</p>	<ol style="list-style-type: none"> 1. CHARACTERIZATION OF SYNTHESIZED POLY(LACTIC) ACID, TITANIUM OXIDE AND TALC NANOCOMPOSITE MEMBER RAGS 2013 2. DESIGN, DEVELOPMENT, AND TESTING OF COMMERCIAL SCALE HYBRID SOLAR DRYER FOR DRYING OF FISH MEMBER MOF 2020 3. DETERMINING THE NATURAL PIGMENT EXTRACTION OF ELEIODOXA CONFERTA AND GARCINIA ATROVIRIDIS AS AN EFFICIENT ENERGY CONVERTER OF DYE-SENSITIZED SOLAR CELLS HEAD RAGS 2014 4. INVESTIGATION OF ZNO-CELLULOSE NANOCOMPOSITE THIN FILM FOR LIGHT EMITTING DIODE (LED) MEMBER SGJP-P 2022 5. LATIHAN KEUSAHAWANAN STRATEGIK ENTERPRISE SOSIAL MEMBER MOF 2020 6. MECHANISM OF BAND GAP MODIFICATION HEAD FRGS 2 7. OPTIMIZING IMLE AND NEAREST NEIGHBOR APPROACHES IN GENERATIVE ADVERSARIAL NETWORKS FOR SYNTHETIC DATA GENERATION OF DYE-SENSITIZED SOLAR CELLS MEMBER FRGS 2 8. SMART CONTINUOUS WATER QUALITY MONITORING (WQM) SYSTEM FOR AQUACULTURE FARM BASED ON WIRELESS SENSOR NETWORK HEAD SGJP 2021 9. SMART CONTINUOUS WATER QUALITY MONITORING (WQM) SYSTEM FOR AQUACULTURE FARM BASED ON WIRELESS SENSOR NETWORK HEAD SGJP 2023 10. SMART CONTINUOUS WATER QUALITY MONITORING (WQM) SYSTEM FOR AQUACULTURE FARM BASED ON WIRELESS SENSOR NETWORK HEAD UMK-FUND 2022 11. INVESTIGATION OF ZNO-CELLULOSE NANOCOMPOSITE THIN FILM FOR LIGHT EMITTING DIODE (LED) MEMBER UMK-MATCH 2023
<p>SUPERVISION</p>	<ul style="list-style-type: none"> • INCREASE SOLAR SYSTEM EFFICIENCY AND REDUCE ENERGY WATSGE VIA IOT MAIN SUPERVISOR FOR A MASTER'S STUDENT • MECHANISM OF BAND GAP MODIFICATION FOR ANTHOCYANIN TYPES OF NATURAL DYES BY NEURO-FUZZY INFERENCE SYSTEMS ANALYSIS MAIN SUPERVISOR FOR A MASTER'S STUDENT • Mechanism of band gap modification for anthocyanin types of natural dyes by neuro-fuzzy inference systems analysis MAIN SUPERVISOR FOR A PHD'S STUDENT
	<ul style="list-style-type: none"> • Product Name: ELECTRONIC SEMICONDUCTOR DEVICES Award: GOLD

RESEARCH AWARD (S)	<p>Role: Member Exhibition Name:CRI2021</p> <ul style="list-style-type: none"> • Product Name: water quality monitoring Award: SILVER Role: Head Exhibition Name:AgroRic • Product Name: SENSITIZER Award: SILVER Role: Head Exhibition Name:MTC • Product Name: SMART MONITORING Award: SILVER Role: Head Exhibition Name:ECRI • Product Name: Modified Silica Extracted From Rice Husk Ash As A New Catalyst Award: BRONZE Role: Member Exhibition Name:AgroRIC 2023 • Product Name: Short Videos Improve Student Effectiveness in Online Learning Platform Award: BRONZE Role: Head Exhibition Name:Telic • Product Name: Enhancement Properties Of Dye-Sensitized Solar Cell (Dssc) Using Hybrid Natural Dyes Award: BRONZE Role: Head Exhibition Name:e-carnival • Product Name: SMART MONITORING Award: BRONZE Role: Head Exhibition Name:MTC
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D. CONSULTATION

CONSULTATION(S)	
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E. COMMUNITY SERVICES

COMMUNITY SERVICES	
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