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A. PERSONAL DETAILS

UMK JOIN DATE	22-Nov-2011
DATE OF APPOINTMENT FOR CURRENT POSITION	01-Nov-2017
DATE OF CONFIRMATION FOR CURRENT POSITION	27-Oct-2020
EDUCATION(S)	<ul style="list-style-type: none">• (2017) UNIVERSITI SAINS MALAYSIA IJAZAH DOKTOR FALSAFAH KIMIA MANGKIN HETEROGEN DAN KIMIA PERMUKAAN• (2010) UNIVERSITI KEBANGSAAN MALAYSIA IJAZAH SARJANA SAINS KIMIA-INORGANIK SAINS KIMIA-INORGANIK• (2004) SEKOLAH MENENGAH KEBANGSAAN AGAMA(P) KANGAR,PERLIS SPM
GROUP OF EXPERTISE	<ul style="list-style-type: none">• Applied Chemistry• Applied Science and Technology• Applied Science and Technology• Engineering Science and Technology• Nanotechnology• Other Applied Sciences and Technologies n.e.c.
AWARD(S)	<ul style="list-style-type: none">• Award Name: Anugerah Perkhidmatan Cemerlang (APC) tahun 2020 (2021) Awarded by: Universiti Malaysia Kelantan
WORKING EXPERIENCE(S)	<ul style="list-style-type: none">• GURU GANTI SANDARAN TDK TERLATIH(GSTT) SEKOLAH MENENGAH KEBANGSAAN ARAU 06-Jul-2010-31-Dec-2010• GURU GANTI SAINS SEKOLAH MENENGAH KEBANGSAAN SANG LANG 01-Jan-2011-01-Feb-2011• GURU GANTI SAINS SEKOLAH MENENGAH KEBANGSAAN KUALA PERLIS 01-Mar-2011-01-May-2011• GURU GANTI ENGLISH SEKOLAH MENENGAH KEBANGSAAN AGAMA (P) KANGAR PERLIS 01-Jun-2011-01-Dec-2011
PROFESIONAL MEMBERSHIP(S)	

B. TEACHING-LEARNING ACTIVITIES

COURSES TAUGHT	<ul style="list-style-type: none">• BIT4183 - INDUSTRIAL TECHNOLOGY MANAGEMENT• BPE2113 - CHEMICALS IN AGRICULTURE• ENE4153 - ENERGY RESOURCES• EWE32903 - LIFE CYCLE ASSESSMENT• EWE33003 - FOREST PRODUCTS STANDARD AND INDUSTRIAL CERTIFICATION• EWT2113 - TYPES AND UTILIZATIONS OF MEDICINAL PLANT• EWT3123 - WOOD AND NON-WOOD CHEMISTRY• EWT3163 - RESEARCH PROJECT I• EWT3203 - FOREST RESOURCES BIOENERGY
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- EWT4183 - RESEARCH PROJECT II
- EWT4198 - INDUSTRIAL TRAINING
- FFT1013 - BIOCHEMISTRY
- FFT1043 - PRINCIPLE OF CHEMISTRY
- JFT20302 - STUDENT IN ENTERPRISE PROGRAMME

C. RESEARCH AND DEVELOPMENT

JOURNAL(S)	<ol style="list-style-type: none"> 1. CHARACTERISATION OF SILICA DERIVED FROM BAMBOO LEAVES ASH (GIGANTOCHLOA ALBOCILIATA); PRELIMINARY RESULTS FOR MOISTURE CONTENT TEST ON RUBBER WOOD CORRESPNDG 2024 2. INFLUENCE OF ABRASIVE GRIT SIZE ON SURFACE WETTABILITY IN KELEMPAYAN (NEOLAMARCKIA CADAMBA) AND PETAI (PARKIA SPECIOSA) WOOD SANDING CO 2024 3. A REVIEW OF RICE HUSK SILICA AS A HETEROGENEOUS CATALYST SUPPORT CO 2021-12 4. OPTICAL AND STRUCTURAL PROPERTIES OF CONTROLLED PH VARIATION ON ZINC OXIDE NANOSTRUCTURED VIA HYDROTHERMAL METHOD CO 2021-10 5. STUDIES ON THE OPTICAL AND PHOTOELECTRIC PROPERTIES OF ANTHOCYANIN AND CHLOROPHYLL AS DIHYBRID SENSITIZER IN DYE SENSITIZED SOLAR CELL (DSSC) CO 2023 6. EXTRACTION OF SILICA FROM BAMBOO LEAVES ASH (BAMBUSOIDEAE) USING HYDROCHLORIC ACID AND NITRIC ACID CO 2023 7. IMPACT OF TITANIUM DIOXIDE WITH INDUSTRIAL FOOD WASTE ON BIO-POLYMER MATRIX OF BANANA PEEL FROM AGRICULTURAL WASTE: A REVIEW CO 2023
PROCEEDING(S)	<ol style="list-style-type: none"> 1. EFFECT OF PRESSING TIME ON THE PROPERTIES OF PARTICLEBOARD MADE USING GLUTARALDEHYDE-TREATED OIL PALM PARTICLE CO 2024-03-21 2. SMART SOLAR GENERATOR FOR HOME APPLICATION BASED ON WIRELESS SENSOR NETWORK CO 2024-03 3. THE PRELIMINARY STUDY OF APPLICATIONS WASTE BANANA PEEL AND EGG SHELL FILLER AS AGRICULTURAL WASTE FOR PAPER APPLICATIONS CO 2024 4. OPTICAL AND STRUCTURAL PROPERTIES OF CONTROLLED PH VARIATION ON ZINC OXIDE NANOSTRUCTURED VIA HYDROTHERMAL METHOD CO 2022 5. RAPID PRODUCTION OF CARBON STEEL SLAG BASED-STRUCTURAL CLAY PRODUCT USING DRY MIXING INTEGRATED WITH UNIAXIAL COMPACTION PROCESS CO 2022 6. LEUCAENA LEUCOCEPHALA BIOMASS TREATED WITH SODIUM DODECYLBENZENE SULFONATE (SDBS) AS AN ADSORBENT FOR MALACHITE GREEN UPTAKE FROM CONTAMINATED WATER CO 2022 7. POTENTIAL RECYCLING OF METALLURGICAL SLAG WASTE INTO GEOPOLYMER PRODUCTS: A BRIEF REVIEW CO 2020-09 8. COMPARISON BETWEEN SOLID STATE REACTION AND COPRECIPITATION METHOD OF TITANIUM OXIDE ADDITION ON THE YBA₂CU₃O₇ CERAMICS CO 2020 9. OPTIMIZATION AND KINETIC ANALYSIS ON THE PRODUCTION OF HYALURONIC ACID BY STREPTOCOCCUS ZOOEPIDEMICUS IN A BATCH SYSTEM CO 2020 10. RAW AND ACETYLATED SUGARCANE BAGASSE (SACCHARUM OFFICINARUM) AND RUBBER WOOD (HEVEA BRASILIENSIS) IN OIL SPILL SORPTION AT PANTAI KUALA PERLIS CO 2020-12-28
BOOK(S)	
CHAPTER(S)	
OTHER(S)	
RESEARCH(S)	<ol style="list-style-type: none"> 1. CHARACTERIZATION OF TWO DIFFERENT CULTIVARS OF DISCOREA HISPIDA DENNST. (UBI GADONG) AS A POTENTIAL FEEDSTOCK FOR ENERGY SOURCE. MEMBER SGJP 2017 2. DEVELOPING AN EARLY WARNING SYSTEM FOR MITIGATING THE FLOOD IN THE UPSTREAM OF KELANTAN RIVER BASIN NEAR TO KOTA BHARU BY USING UAVS (UNMANNED AERIAL VEHICLES) TECHNIQUES HEAD UMK-FUND 2020 3. EFFECT OF HYDROGEL ON THE INTERFACIAL TENSION AND STABILITY OF NANOEMULSION FOR NANOEMULGEL FORMATION MEMBER RACE 2020 4. HIGH ANTIMICROBIAL OF HYBRID BASED ON WASTE DYE /ZNO IN POLYURETHANE MATRIX HEAD SGJP 2017 5. HIGH ANTIMICROBIAL OF HYBRID BASED ON WASTE DYE /ZNO IN POLYURETHANE MATRIX MEMBER SGJP 2017 6. MECHANISM OF SILICA EXTRACTION FROM RICE HUSK FUNCTIONALIZED BY THIOUREA DERIVATIVES OF ORGANIC COMPOUND USED IN CATALYTIC STUDY. HEAD RACE 2020 7. STNTHESIS OF HYBRID ORGANIC - INORGANIC SIO₂ - UREA FROM RICE HUSK ASH: A BASIC CATALYST FOR BENZYLIDENEMALONONITRILE REACTION SYNTHESIS HEAD SGJP 2017 8. TEST EXTERNAL RESEARCH HEAD UMK-FUND 2022 9. UTILIZATION OF NICOTIANA TABACUM STALKS-BASED XYLAN AND TAPIOCA STARCH COMPOSITE FILMS FOR ACTIVE FOOD PACKAGING MEMBER SGJP 2017 10. VSOL INNOVATIVE KIT TO DETERMINE ULTRA TRACE LEVEL OF PESTICIDE IN FRUITS AND VEGETABLES MEMBER TSFAS 2020 11. VSOL-INNOVATIVE KIT TO DETERMINE ULTRA TRACE LEVELS OF PESTICIDES IN FRUITS AND VEGETABLES. MEMBER UMK-FUND 2020 12. VSOL- INNOVATIVE KIT TO DETERMINE ULTRA-TRACE LEVELS OF PESTICIDES IN FRUITS AND VEGETABLES MEMBER TSFAS 2020

<p>SUPERVISION</p>	<ul style="list-style-type: none"> • MECHANISM OF SILICA EXTRACTION FROM RICE HUSK FUNCTIONALIZED BY THIOUREA DERIVATIVES OF ORGANIC COMPOUND USED IN CATALYTIC STUDY MAIN SUPERVISOR FOR A MASTER'S STUDENT
<p>RESEARCH AWARD (S)</p>	<ul style="list-style-type: none"> • Product Name: CHEMISTRY BOOK COMIC Award: GOLD Role: Member Exhibition Name:INTERNATIONAL AND SYMPOSIUM ON PRODUCTIVITY, INNOVATION KNOWLEDGE AND EDUCATION • Product Name: ECO NAA FILMS Award: GOLD Role: Member Exhibition Name:PECIPTA • Product Name: FOOD WASTE IN KELANTAN AS FILMS FERTILIZERS Award: GOLD Role: Member Exhibition Name:MTE • Product Name: ECO NAA FILMS Award: GOLD Role: Member Exhibition Name:PECIPTA • Product Name: SILICA FROM RICE HUSK IMMOBILIZED BENZOYLTHIOUREA Award: SPECIAL Role: Head Exhibition Name:31st Regional Conference on Solid State Science and Technology (RCSST2022), • Product Name: UTILISATION OF SILICA FROM BAMBOO LEAVES ASH AND MODIFICATION WITH M-TOLUOYL CHLORIDE IN SHELLAC; ITS MICROBIAL EFFECT ON PULAI WOOD Award: SILVER Role: Head Exhibition Name:Materials Technology Challenge 7.0 (MTC72022), Matecrev, Faculty of Bioengineering and Technology, Universiti Malaysia Kelantan, 17600 Jeli, Kelantan, Malaysia. • Product Name: WATER QUALITY MONITORING SYSTEM Award: SILVER Role: Member Exhibition Name:INTERNATIONAL AGRORIC REVOLUTION AND INNOVATION CHALLENGE 2023 • Product Name: SILICA FROM RICE HUSK IMMOBILIZED BENZOYLTHIOUREA Award: SILVER Role: Head Exhibition Name:Materials Technology Challenge (MTC7.0) 2022 in conjunction with 31st Regional Conference on Solid State Science and Technology (RCSST) 2022 6 - 8 September 2022 • Product Name: NOV U MEMBRANE Award: SILVER Role: Member Exhibition Name:CRI INNOVATION • Product Name: BIO-MULCH Award: SILVER Role: Member Exhibition Name:EREKA2023 • Product Name: Extraction of natural dyes Award: BRONZE Role: Head Exhibition Name:AGroric2023 • Product Name: HETEROGENOUS CATALYST FROM RICE HUSK ASH SILICA Award: BRONZE Role: Head Exhibition Name:4th Virtual International Breakthrough Invention, Innovation & Design Exhibition (VI-BiiDE2022) organized by the Research Management Unit, UiTM Pahang (Malaysia). • Product Name: SILVER NANOPARTICLES IMMOBILIZED ONTO HETEROGENOUS SILICA FROM RICE HUSK IN REDUCTION OF NITROARENES Award: BRONZE Role: Head Exhibition Name:KIMIA INVENSI DAN INOVASI MALAYSIA 2022 (KI2M), • Product Name: KIMIA INVENSI DAN INOVASI MALAYSIA 2022 (KI2M), Award: BRONZE Role: Head Exhibition Name:SILVER NANOPARTICLES IMMOBILIZED ONTO HETEROGENOUS SILICA FROM RICE HUSK IN REDUCTION OF NITROARENES • Product Name: MUSH-G COMPOST Award: BRONZE Role: Member Exhibition Name:Materials Technology Challenge (MTC7.0) 2022 in conjunction with 31st Regional Conference on Solid State Science and Technology (RCSST) 2022 6 - 8 September 2022 • Product Name: HETEROGENOUS CATALYST FROM RICE HUSK ASH SILICA Award: BRONZE Role: Head Exhibition Name:4th Virtual International Breakthrough Invention, Innovation & Design Exhibition (VI-BiiDE2022) organized by the Research Management Unit, UiTM Pahang (Malaysia). • Product Name: THE PRODUCTION OF ORGANIC CATALYST USING SILICA EXTRACTION FROM RICE HUSK

	<p>Award: BRONZE Role: Member Exhibition Name:Materials Technology Challenge (MTC7.0) 2022 in conjunction with 31st Regional Conference on Solid State Science and Technology (RCSST) 2022 6 - 8 September 2022</p> <ul style="list-style-type: none"> • Product Name: SYNTHESIS OF THIOUREA DERIVATIVES AS A HYBRID MESOPOROUS SILICA Award: BRONZE Role: Head Exhibition Name:CRI INNOVATION • Product Name: Morphology controlled oxide via hydrothermal application Award: BRONZE Role: Member Exhibition Name:CARNIVAL RESEARCH INNOVATION CRI • Product Name: AZURESPEC; A RAPID SPECTROSCOPIC METHOD FOR THE DETECTION OF SYNTHETIC MILK Award: BRONZE Role: Member Exhibition Name:iNODEX 2023 • Product Name: HZM-HOLLOW SEPARATOR Award: BRONZE Role: Member Exhibition Name:RESEARCH AND CARNIVAL INNOVATION (CRI UMK) • Product Name: NATURAL NANOPESTICIDE FORMULATION Award: BRONZE Role: Member Exhibition Name:RESEARCH AND CARNIVAL INNOVATION (CRI UMK) • Product Name: EXTRACTION OF NATURAL DYES FROM ROSELLE Award: BRONZE Role: Head Exhibition Name:INTERNATIONAL AGRORIC REVOLUTION AND INNOVATION CHALLENGE 2023 • Product Name: MODIFIED SILICA EXTRACTED FROM RICE HUSK ASH AS A NEW CATALYST Award: BRONZE Role: Head Exhibition Name:INTERNATIONAL AGRORIC REVOLUTION AND INNOVATION CHALLENGE 2023 • Product Name: MUSH COMPOST Award: BRONZE Role: Member Exhibition Name:INTERNATIONAL AGRORIC REVOLUTION AND INNOVATION CHALLENGE 2023 • Product Name: Silver Nanoparticles Immobilized onto Rice Husk in Reduction of Nitroarenes Award: NONE Role: Member Exhibition Name:INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION 2021 (ISIC III 2021)
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D. CONSULTATION

CONSULTATION(S)	1. PERMOHONAN DANA GE BAGI PROGRAM BERSAMA WISDEC DAN SEH PROFESSIONAL MANAGEMENT DEVELOPMENT (PMD) HEAD 2021
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E. COMMUNITY SERVICES

COMMUNITY SERVICES	
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