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A. PERSONAL DETAILS

UMK JOIN DATE	29-Sep-2013
DATE OF APPOINTMENT FOR CURRENT POSITION	29-Sep-2013
DATE OF CONFIRMATION FOR CURRENT POSITION	21-Jul-2016
EDUCATION(S)	<ul style="list-style-type: none">• () PROFESIONAL MATERIAL SCIENCE TECHNOLOGY• (2013) UNIVERSITI SAINS MALAYSIA IJAZAH DOKTOR FALSAFAH TEKNOLOGI BIOSUMBER, KERTAS DAN PENGLITUP MODIFIKASI KIMIA BIOSUMBER• (2002) KOLEJ MELAYU KUALA KANGSAR SPM
GROUP OF EXPERTISE	<ul style="list-style-type: none">• Applied Chemistry• Applied Science and Technology• Biocomposite• Biomaterial• Composite Materials• Engineering Science and Technology• Polymers• Rubber• Timber
AWARD(S)	<ul style="list-style-type: none">• Award Name: Anugerah Gemilang Universiti Tahun 2018 - Kategori Penerbitan (2019) Awarded by: Universiti Malaysia Kelantan• Award Name: Anugerah Perkhidmatan Cemerlang Tahun 2018 (2019) Awarded by: Universiti Malaysia Kelantan• Award Name: Anugerah Gemilang Universiti tahun 2014 kategori Penyelidikan dan Inovasi Harapan (2015) Awarded by: Universiti Malaysia Kelantan
WORKING EXPERIENCE(S)	<ul style="list-style-type: none">• Lecturer Universiti Teknologi MARA 01-Sep-2012-01-Jul-2013
PROFESIONAL MEMBERSHIP(S)	

B. TEACHING-LEARNING ACTIVITIES

	<ul style="list-style-type: none">• EFT1173 - INTRODUCTION TO FORESTRY SCIENCE• EFT2143 - RESEARCH METHODOLOGY AND SCIENTIFIC WRITING• EKE3093 - SOCIOLOGY AND SUSTAINABLE DEVELOPMENT• EME2273 - MATERIAL AGRO TECHNOLOGY• EMT3142 - COATING TECHNOLOGY• ENE2103 - MANAGEMENT OF PARK AND PROTECTED AREAS• ENT4228 - INDUSTRIAL TRAINING
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COURSES TAUGHT

- EWE33003 - FOREST PRODUCTS STANDARD AND INDUSTRIAL CERTIFICATION
- EWE4283 - WOOD DRYING AND PRESERVATION
- EWT2103 - WOOD PHYSICAL AND MECHANICAL PROPERTIES
- EWT3134 - WOOD AND NON-WOOD PROCESSING TECHNOLOGY
- EWT3163 - RESEARCH PROJECT I
- EWT4183 - RESEARCH PROJECT II
- EWT4198 - INDUSTRIAL TRAINING
- FFT1043 - PRINCIPLE OF CHEMISTRY
- FIE3153 - BIOPRODUCT DEVELOPMENT
- JFT20302 - STUDENT IN ENTERPRISE PROGRAMME

C. RESEARCH AND DEVELOPMENT**JOURNAL(S)**

1. EFFECT OF NAOH TREATMENT ON TENSILE PROPERTIES OF KENAF CORE FIBER/UNSATURATED POLYESTER RESIN BIOCOMPOSITES | CO | 2024
2. IMPROVEMENTS AND LIMITATION OF SOY PROTEIN-BASED ADHESIVE: A REVIEW | CO | 2021-10
3. REVIEW OF MANUFACTURING PROCESS OF NATURAL FIBER REINFORCED POLYMER COMPOSITES | CO | 2021
4. EVALUATION OF ALKALINE-BASED ACTIVATED CARBON FROM LEUCAENA LEUCOCEPHALA PRODUCED AT DIFFERENT ACTIVATION TEMPERATURES FOR CADMIUM ADSORPTION | CORRESPNDG | 2021-01
5. EVALUATION OF ALKALINE-BASED ACTIVATED CARBON FROM LEUCAENA LEUCOCEPHALA PRODUCED AT DIFFERENT ACTIVATION TEMPERATURES FOR CADMIUM ADSORPTION | CORRESPNDG | 2021-01
6. GLUTARDIALDEHYDE MODIFIED STARCH FROM WASTE OIL PALM TRUNKS AS A BINDER FOR WOOD COMPOSITE MAKING | MAIN | 2021-01
7. GLUTARDIALDEHYDE MODIFIED STARCH FROM WASTE OIL PALM TRUNKS AS A BINDER FOR WOOD COMPOSITE MAKING | CORRESPNDG | 2021-01
8. KINETICS, THERMODYNAMICS, AND ISOTHERMS OF METHYLENE BLUE ADSORPTION STUDY ONTO CASSAVA STEM ACTIVATED CARBON | CO | 2021-10-02
9. KINETICS, THERMODYNAMICS, AND ISOTHERMS OF METHYLENE BLUE ADSORPTION STUDY ONTO CASSAVA STEM ACTIVATED CARBON | CO | 2021-10-02
10. PHYSICAL PROPERTIES, THERMAL AND FUNGAL RESISTANCE OF SCOTS PINE WOOD TREATED WITH NANO-CLAY AND SEVERAL METAL-OXIDES NANOPARTICLES | CO | 2022
11. PHYSICAL PROPERTIES, THERMAL AND FUNGAL RESISTANCE OF SCOTS PINE WOOD TREATED WITH NANO-CLAY AND SEVERAL METAL-OXIDES NANOPARTICLES | CO | 2022
12. REMOVAL OF CADMIUM USING ALKALINE-TREATED ACTIVATED CARBON FROM LEUCAENA LEUCOCEPHALA BIOMASS | CO | 2022
13. REMOVAL OF CADMIUM USING ALKALINE-TREATED ACTIVATED CARBON FROM LEUCAENA LEUCOCEPHALA BIOMASS | CORRESPNDG | 2022
14. PROPERTIES OF SCOTS PINE WOOD IMPREGNATED WITH CAPRIC ACID FOR POTENTIAL ENERGY SAVING BUILDING MATERIAL | MAIN | 2022
15. PROPERTIES OF SCOTS PINE WOOD IMPREGNATED WITH CAPRIC ACID FOR POTENTIAL ENERGY SAVING BUILDING MATERIAL | MAIN | 2022
16. EVALUATION OF ENVIRONMENTALLY FRIENDLY PLYWOOD MADE USING GLUTARALDEHYDE-MODIFIED STARCH AS THE BINDER | MAIN | 2022
17. CHARACTERIZATION AND OFLOXACIN ADSORPTION STUDIES OF CHEMICALLY MODIFIED ACTIVATED CARBON FROM CASSAVA STEM | CO | 2022
18. CHARACTERIZATION AND OFLOXACIN ADSORPTION STUDIES OF CHEMICALLY MODIFIED ACTIVATED CARBON FROM CASSAVA STEM | CO | 2022
19. REVIEW ON THE PHASE CHANGE MATERIALS IN WOOD FOR THERMAL REGULATIVE WOOD-BASED PRODUCTS | CO | 2022
20. REVIEW ON THE PHASE CHANGE MATERIALS IN WOOD FOR THERMAL REGULATIVE WOOD-BASED PRODUCTS | CORRESPNDG | 2022
21. CHARACTERIZATION OF RUBBERWOOD PARTICLEBOARD MADE USING CARBOXYMETHYL STARCH MIXED WITH POLYVINYL ALCOHOL AS ADHESIVE | CO | 2020-02
22. ADHESIVE APPLICATION ON PARTICLEBOARD FROM NATURAL FIBERS: A REVIEW | CO | 2020-08
23. ADHESIVE APPLICATION ON PARTICLEBOARD FROM NATURAL FIBERS: A REVIEW | CO | 2020-08
24. CITRIC ACID-MODIFIED STARCH AS AN ENVIRONMENTALLY FRIENDLY BINDER FOR WOOD COMPOSITE MAKING | MAIN | 2020-05-01
25. CITRIC ACID-MODIFIED STARCH AS AN ENVIRONMENTALLY FRIENDLY BINDER FOR WOOD COMPOSITE MAKING | MAIN | 2020-05-01
26. ECOWOOD COMPOSITES MADE USING CITRIC-ACIDMODIFIED CORN AND OIL PALM STARCHES AS THE BINDER | MAIN | 2020-07-01
27. ECOWOOD COMPOSITES MADE USING CITRIC-ACIDMODIFIED CORN AND OIL PALM STARCHES AS THE BINDER | MAIN | 2020-07-01
28. PROPERTIES OF GREEN PARTICLEBOARD MANUFACTURED FROM COCONUT FIBER USING A POTATO STARCH BASED ADHESIVE | CO | 2020-05-01
29. PROPERTIES OF GREEN PARTICLEBOARD MANUFACTURED FROM COCONUT FIBER USING A POTATO STARCH BASED ADHESIVE | CO | 2020-05-01
30. AUGMENTATION OF THE DELAMINATION FACTOR IN DRILLING OF CARBON FIBRE-REINFORCED POLYMER COMPOSITES (CFRP) | CO | 2020-11
31. AUGMENTATION OF THE DELAMINATION FACTOR IN DRILLING OF CARBON FIBRE-REINFORCED POLYMER COMPOSITES (CFRP) | CO | 2020-11
32. PHASE CHANGE MATERIAL IMPREGNATED WOOD FOR PASSIVE THERMAL MANAGEMENT OF TIMBER BUILDINGS | CO | 2020-10
33. PHASE CHANGE MATERIAL IMPREGNATED WOOD FOR PASSIVE THERMAL MANAGEMENT OF TIMBER BUILDINGS | CO | 2020-10
34. FLAME RETARDANT PROPERTIES OF PARTICLEBOARD MADE FROM COCONUT FIBRE USING MODIFIED POTATO STARCH AS A BINDER | CO | 2020

	<ul style="list-style-type: none"> 35. THE EFFECTS OF DRYING TEMPERATURES ON PRESERVATIVE RETENTION AND PENETRATION OF SOME MALAYSIAN FAST-GROWING SPECIES TIMBERS CO 2020 36. THE EFFECTS OF DRYING TEMPERATURES ON PRESERVATIVE RETENTION AND PENETRATION OF SOME MALAYSIAN FAST-GROWING SPECIES TIMBERS CO 2020 37. PERFORMANCE OF GLUED LAMINATED TIMBER (GLULAM) MADE FROM KELEMPAYAN WOOD WITH DIFFERENT LAMINA ASSEMBLY PATTERNS AND ADHESIVE SPREAD RATES CO 2023 38. EFFECT OF RADIAL GROWTH RATE ON WOOD PROPERTIES VARIATION OF SENTANG (AZADIRACHTA EXCELSA) TREE PLANTED IN KELANTAN, MALAYSIA CO 2023 39. EFFECT OF RADIAL GROWTH RATE ON WOOD PROPERTIES VARIATION OF SENTANG (AZADIRACHTA EXCELSA) TREE PLANTED IN KELANTAN, MALAYSIA CO 2023 40. ENHANCING THE PROPERTIES OF DATE PALM FIBRE REINFORCED BIO-EPOXY COMPOSITES WITH CHITOSAN - SYNTHESIS, MECHANICAL PROPERTIES, AND DIMENSIONAL STABILITY CO 2023 41. ENHANCING THE PROPERTIES OF DATE PALM FIBRE REINFORCED BIO-EPOXY COMPOSITES WITH CHITOSAN - SYNTHESIS, MECHANICAL PROPERTIES, AND DIMENSIONAL STABILITY CO 2023 42. EFFECT OF RADIAL GROWTH RATE ON WOOD PROPERTIES VARIATION OF SENTANG (AZADIRACHTA EXCELSA) TREE PLANTED IN KELANTAN, MALAYSIA CO 2023 43. EXTRACTION OF SILICA FROM BAMBOO LEAVES ASH (BAMBUSOIDEAE) USING HYDROCHLORIC ACID AND NITRIC ACID CO 2023
PROCEEDING(S)	<ul style="list-style-type: none"> 1. EFFECT OF PRESSING TIME ON THE PROPERTIES OF PARTICLEBOARD MADE USING GLUTARALDEHYDE-TREATED OIL PALM PARTICLE CORRESPNDG 2024-03-21 2. EVALUATION OF THE EFFECT OF UREA AS PLASTICIZER ON THE PROPERTIES OF GLUTARDIALDEHYDE MODIFIED STARCH CORRESPNDG 2024-03 3. REMOVAL OF CADMIUM USING ALKALINE-TREATED ACTIVATED CARBON FROM LEUCAENA LEUCOCEPHALA BIOMASS CORRESPNDG 2024-03 4. RUBBERIZED GLUTARDIALDEHYDE MODIFIED STARCH PLASTICIZED WITH ETHYLENE GLYCOL CORRESPNDG 2024-03 5. WOOD COMPOSITE FROM HEVEA BRASILIENSIS SAWDUST AND THERMOPLASTIC STARCH CORRESPNDG 2024-03-21 6. FOURIER TRANSFORM INFRARED SPECTROSCOPY OF THE WOOD COMPOSITE FROM NEOLAMARCKIA CADAMBA AND ENDOSPERMUM DIADENUM FOR PARTICLEBOARD APPLICATION CO 2021-05 7. COMPARISON OF CHEMICAL COMPOSITIONS BETWEEN TWO FAST GROWING SPECIES: ACACIA MANGIUM AND LEUCAENA LEUCOCHEPHALA CO 2021-09 8. PRELIMINARY CHARACTERIZATION OF METHANOLIC AND ETHANOLIC EXTRACT OF MUSA ACUMINATA LEAVES CO 2022 9. MODIFICATION OF ACTIVATED CARBON WITH ANIONIC SURFACTANT FOR DYE REMOVAL CO 2022 10. LEUCAENA LEUCOCEPHALA BIOMASS TREATED WITH SODIUM DODECYLBENZENE SULFONATE (SDBS) AS AN ADSORBENT FOR MALACHITE GREEN UPTAKE FROM CONTAMINATED WATER CORRESPNDG 2022 11. PARTICLEBOARD BASED ON GLUTARDIALDEHYDE TREATED OIL PALM TRUNK PARTICLES MADE AT DIFFERENT PRESSING TEMPERATURES MAIN 2020 12. EFFECT OF HALOGEN FREE-FLAME RETARDANTS ON THE MECHANICAL AND MORPHOLOGICAL PROPERTIES OF KENAF/POLYURETHANE FOAM COMPOSITES CO 2020-03 13. MECHANICAL AND THERMAL PROPERTIES OF HYBRID NON-WOVEN KENAF FIBRE MAT-GRAPHENE NANOPATELETS REINFORCED POLYPROPYLENE COMPOSITES CO 2020 14. EFFECTS OF STYRENE BUTADIENE RUBBER ON PHYSICAL AND MECHANICAL PROPERTIES OF KENAF CORE FIBER REINFORCED POLYPROPYLENE COMPOSITES CO 2020-12-28
BOOK(S)	<ul style="list-style-type: none"> 1. PARTICLEBOARD RAW MATERIAL INTO MARKET MAIN 2022
CHAPTER(S)	<ul style="list-style-type: none"> 1. DAMAGE TO CARBON FIBRE REINFORCED POLYMER COMPOSITES (CFRP) BY LASER MACHINING: AN OVERVIEW CO 2021 2. FOREST AND AGRICULTURAL BIOMASS MAIN 2024-01-01
OTHER(S)	<ul style="list-style-type: none"> 1. PERATURAN AKADEMIK PENGAJIAN SISWAZAH SECARA PENYELIDIKAN EDISI KELIMA CO 2024-03-04 2. GARIS PANDUAN PENYEDIAAN LAPORAN PENYELIDIKAN PENGAJIAN SISWAZAH EDISI KETIGA CO 2024-03-04
RESEARCH(S)	<ul style="list-style-type: none"> 1. AUGMENTATION OF THE DELAMINATION FACTOR IN DRILLING OF CARBON FIBRE REINFORCED POLYMER (CFRP) COMPOSITES MEMBER SGJP 2017 2. CHEMICAL MODIFICATION OF LEUCAENA LEUCOCEPHALA BIOMASS AS AN ADSORBENT FOR POLLUTED WATER TREATMENT. HEAD SGJP 2015 3. DEVELOPMENT AND CHARACTERIZATION OF KENAF FIBRE MAT / GRAPHENE NANOPATELETS REINFORCED BIO-BASED UNSATURATED PLYESTER HYBRID COMPOSITES MEMBER SGJP 2016 4. EVALUATION OF THERMAL REGULATING WOOD COMPOSITE HEAD UMKRS 2021 5. HIGH MIXING SPEED VACUUM EMULSIFYING MACHINE USING HIGH GRADE STAINLESS STEEL WITH TOP QUALITY FINISHING MEMBER GRANT(I/A) 2022 6. INTERACTION OF RADIAL GROWTH RATE AND SITE LOCATION ON ANATOMICAL CHARACTERISTICS AND WOOD PROPERTIES OF 10- AND 40-YEAR-OLD SENTANG (AZADIRACHTA EXCELSA) PLANTED IN WEST AND EAST COAST OF PENINSULAR MALAYSIA MEMBER FRGS 2020 7. INVESTIGATION ON CURING MECHANISMS AND PROPERTIES OF THERMOSETTING POLYMER FROM CHEMICALLY MODIFIED STARCH HEAD RAGS 2015

	8. INVESTIGATION ON THE EFFECT OF DIFFERENT GLUTARALDEHYDE TO STARCH RATIOS IN MICRO-ENCAPSULATION OF VARIOUS PHASE CHANGE MATERIAL. HEAD FRGS 2021 9. MECHANISM OF INTERFACIAL ADHESION OF CELLULOSE NANOCRYSTAL AND GRAPHENE NANOPLATELET AS HYBRID NANO FILLERS FOR POLYLACTIC ACID BIOCOSMOSITES MEMBER FRGS 2020 10. PRELIMINARY STUDY OF MANIHOT ESCULENTA SP. INTERLAYER IN FUEL CELL APPLICATION MEMBER SGJP 2017 11. SOLID STATE THERMAL ANALYSIS OF THERMAL INTERFACE MATERIAL FROM NANO-SILVER (RAGS) HEAD SGPL-MYRA 2016
SUPERVISION	<ul style="list-style-type: none"> • ANALYSES OF SHAPE-STABILIZED PHASE CHANGE MATERIAL PRODUCED USING RUBBERWOOD BIOCHAR FOR THERMAL ENERGY STORAGE MAIN SUPERVISOR FOR A MASTER'S STUDENT
RESEARCH AWARD (S)	<ul style="list-style-type: none"> • Product Name: MOPS-Composite Award: GOLD Role: Head Exhibition Name: Carnival of Research and Innovation 2022 (CRI 2022) • Product Name: MODIFIED GRAPHENE THERMAL INTERFACE MATERIAL Award: GOLD Role: Member Exhibition Name: INTERNATIONAL INNOVATION, CREATIVITY & TECHNOLOGY EXHIBITION (i2CreaTE 2021) • Product Name: BIOCOSMOSITE MATERIALS TO ENHANCE THE DURABILITY OF SELECTED WOOD SPECIES (INTSIA PALEMBANICA MIQ, NEOBALANOCARPUS HEIMII, SHOREA PLAGATA) IN MALAYSIA Award: GOLD Role: Member Exhibition Name: World Invention Innovation Contest (WIC 2021) • Product Name: MOPS-Composite Award: SILVER Role: Head Exhibition Name: Malaysia Technology Expo 2022 (MTE2022) • Product Name: THERMO-R WOOD Award: SILVER Role: Head Exhibition Name: CARNIVAL OF RESEARCH AND INNOVATION (CRI 2023) • Product Name: Fast Powder Filling Machine Using Twin Hopper Award: SILVER Role: Member Exhibition Name: Malaysia Technology Expo 2022 (MTE2022) • Product Name: KENAF-HYBRID NANOFILLERS REINFORCED POLYESTER BIOCOSMOSITES Award: BRONZE Role: Member Exhibition Name: Carnival of Research and Innovation 2022 (CRI 2022) • Product Name: FURNITURE CORE FROM ADMIXTURE OF KELEMPAYAN AND RUBBERWOOD PARTICLEBOARD Award: BRONZE Role: Member Exhibition Name: CARNIVAL OF RESEARCH AND INNOVATION (CRI 2023)

D. CONSULTATION

CONSULTATION(S)	
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E. COMMUNITY SERVICES

COMMUNITY SERVICES	
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