



TS. DR. HATIKA BINTI KACO

PENSYARAH UNIVERSITI DS13

CONTACT

Phone: 067988030

E-mail:
hatikakaco@usim.edu.my

Address: Kolej Permata
Insan

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 0

AREAS OF EXPERTISE

Polymer-based 3d Printing Materials

Material Properties

Cellulosic And Fibre Technology (including Nano Cellulosic Materials)

BIOGRAPHY

A lecturer from Kolej Permata Insan. Holds a Phd in Materials Science.

ACADEMIC QUALIFICATION

Phd in Materials Science (2015)

Bachelor in Materials Science (2011)

RESEARCH

1. INVESTIGATING THE DE-AND-RE-POLYMERIZATION ON CHAIN EXTENSION OF RECYCLED PET FOR HIGH PERFORMANCE 3D PRINTING MATERIAL

2024 ON GOING MAIN RESEARCHER

2. GIFT TO GIVE: EXPLORING GIFTED STUDENTS AS TRENDSETTERS TO INTENSIFY STEM LEARNING THROUGH ADDITIVE MANUFACTURING TECHNOLOGY

2024 ON GOING MAIN RESEARCHER

3. TOUCH AND MEMORIZE: INAUGURATION OF ROSARY-LIKE 3D PRINTED BRAILLE QURAN FOR VISUALLY IMPAIRED CHILDREN

2019 COMPLETED MAIN RESEARCHER

PUBLICATION

1. ELECTROMAGNETIC WAVE ABSORPTION PERFORMANCE OF Ni_{0.7}Zn_{0.3}Fe₂O₄/ZEOLITE/ CNT-EPOXY POLYMER MATRIX AT DIFFERENT THICKNESS

2025 JOURNAL

2. SULAM NATURE APPRECIATION MODULE: SCIENCE AND THE QURAN IN HARMONY

2024 PROCEEDING

3. CHAPTER 1: ICE BREAKING: PERSONAL TIC TAC TOE

2024 CHAPTER IN BOOK

4. CHAPTER 3: UNLEASHING CREATIVITY: CRAFTING AN EDUCATIONAL TOOL THROUGH INNOVATION

2024 CHAPTER IN BOOK

5. INNOVATION UNVEILED: PRESENTING MY INVENTIVE MODEL IN THE PROJECT REPORT

2024 CHAPTER IN BOOK

6. FIZIK: HATIKA KACO

2022 CHAPTER IN BOOK

7. 3D PRINTED BRAILLE TILES AND TAPE FOR BEGINNERS IN LEARNING QURAN BRAILLE

2021 PROCEEDING

8. FUN LEARNING ACTIVITY WITH 3D PRINTING KIT AS ATTRACTIVE APPROACHES FOR EMPHASIZING PHYSICS INTEREST

2021 CHAPTER IN BOOK

9. OIL WATER SEPARATION: INAUGURATION OF CELLULOSE AND CHEMICALLY MODIFIED CELLULOSE-RGO VIA GRAPHENE OXIDE FUNCTIONALIZATION

2020 JOURNAL

10. DEGRADATION OF CELLULOSE MOLECULAR WEIGHT: EFFECT OF ACID HYDROLYSIS TIME ON CELLULOSE HYDROGEL PROPERTIES

2019 CHAPTER IN BOOK

11. ENHANCED CORROSION INHIBITION USING PURIFIED TANNIN IN HCL MEDIUM

2018 JOURNAL

12. EFFECT OF GRAPHENE OXIDE ON THERMAL STABILITY OF AEROGEL BIONANOCOMPOSITE FROM CELLULOSE-BASED WASTE BIOMASS

2018 JOURNAL

13. REGENERATED KENAF CORE CELLULOSE PRODUCTS PREPARED VIA PRE-COOLED METHOD

2018 PROCEEDING

14. PENGENALAN

2018 CHAPTER IN BOOK

15. LIGNOSELULOSA

2018 CHAPTER IN BOOK

16. SUMBER LIGNOSELULOSA DARIPADA HASIL INDUSTRI PERTANIAN

2018 CHAPTER IN BOOK

17. POTENSI BAHARU PRODUK KONVENSIONAL DARIPADA BIOJISIM LIGNOSELULOSA

2018 CHAPTER IN BOOK

18. SELULOSA SEBAGAI SUMBER APLIKASI TERMAJU

2018 CHAPTER IN BOOK

19. PENUTUP

2018 CHAPTER IN BOOK

20. PREPARATION OF CELLULOSE SOLUTION FROM OIL PALM EMPTY FRUIT BUNCH (EFB) PULP

2012 PROCEEDING

21. PENYEDIAAN LARUTAN SELULOSA DARIPADA PULPA SERABUT TANDAN KELAPA SAWIT (STKS)

2012 PROCEEDING

CONSULTATION/ADULATION

1. KAJIAN BANCAN INDUSTRI PERKAYUAN NEGARA

2017 NATIONAL MALAYSIAN TIMBER INDUSTRY BOARD (MTIB)

AWARDS/RECOGNITION

1. JOHAN ROBOMISSION PRO (LOWER SECONDARY)

2025 STATE

2. CONSOLATION ROBOMISSION BATTLE LOWER BORNEO INTERNATIONAL ROBOT TOURNAMENT 2025

2025 INTERNATIONAL

3. ANUGERAH AHLI AKADEMIK HARAPAN 2024

2025 UNIVERSITY

4. 2ND RUNNER-UP INNOXTECH CHALLENGE

2025 NATIONAL

5. WRITER OF THE MONTH (CO-AUTHOR) AUGUST 2025

2025 UNIVERSITY