



**DR. LIYANA AMALINA BINTI  
ADNAN**

PENSYARAH UNIVERSITI DS13

**CONTACT**

**Phone:** 06-7980120

**E-mail:**

liyanamalina@usim.edu.my

**Faculty:** Kolej Permata Insan

**SUPERVISION**

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 0

**AREAS OF EXPERTISE**

**ACADEMIC QUALIFICATION**

PhD in Kimia (2017)

Bachelor in Kimia Industri (2012)

**RESEARCH**

**1. BIODEGRADATION PATHWAY OF NEW EMERGING POLLUTANTS  
BY NEWLY ISOLATED FUNGI**

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED MAIN  
RESEARCHER

## PUBLICATION

---

### 1. FUNCTIONAL GROUPS? CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE- FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

VIRTUAL INNOVATION COMPETITION 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

### 2. RESEARCH ON BLACK GINGER (KAEMPFERIA PARVIFLORA)

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

### 3. POLYMER FORMULATION USED IN CARBON MEMBRANE SYNTHESIS AND PERFORMANCE EVALUATION

3RD KUALA LUMPUR INTERNATIONAL CONFERENCE ON MANAGEMENT, EDUCATION AND TECHNOLOGY(KLIMET 2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

### 4. PROFILING OF METABOLITES COMPOUND IN CHROMOLAENA ODORATA USING GAS CHROMATOGRAPHY-MASS SPECTRUM (GC-MS)

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING OTHER DATABASE MAIN AUTHOR

### 5. COMPARING THE BIOACTIVE COMPOUNDS OF CRESCENTIA CUJETE TO PAINKILLER

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING OTHER DATABASE MAIN AUTHOR

### 6. KIMIA

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), ASAS 1

2022 CHAPTER IN BOOK MAIN AUTHOR

### 7. KIMIA

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), ASAS 2

2022 CHAPTER IN BOOK MAIN AUTHOR

### 8. INTERACTIVE LEARNING ACTIVITIES VIA PRACTICAL SESSION AND CYBER TECHNOLOGY

ACTIVE LEARNING IN EDUCATION 4.0: STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK MAIN AUTHOR

### 9. MODUL 4: SISTEM PENAPISAN AIR

MENZAHIR RAHSIA ALAM

2020 CHAPTER IN BOOK MAIN AUTHOR

### 10. IMPACT OF PHYSICO-CHEMICAL PARAMETERS ON THE BIODEGRADATION OF BENZO(A)PYRENE BY PLEUROTUS ERYNGII F032

JSASS-JURNAL SULTAN ALAUDDIN SULAIMAN SHAH

2019 JOURNAL MYJURNAL MAIN AUTHOR

### 11. BIODEGRADATION PATHWAY OF HEXACHLOROCYCLOHEXANE MEDIATED BY ASCOMYCETE FUNGUS TRICHODERMA LIXII F21

INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY-DEGRADATION OF INANIMATE FORMS

2019 CHAPTER IN BOOK MAIN AUTHOR

### 12. IMPACT OF PHYSICO-CHEMICAL PARAMETERS ON THE BIODEGRADATION OF BENZO(A)PYRENE BY PLEUROTUS ERYNGII F032

5TH INTERNATIONAL CONFERENCE ON POSTGRADUATE RESEARCH 2018 (5TH ICPR 2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

### 13. RAPID BIOREMEDIATION OF ALIZARIN RED S AND QUINIZARINE GREEN SS DYES USING TRICHODERMA LIXII F21 MEDIATED BY BIOSORPTION AND ENZYMATIC PROCESSES

BIOPROCESS AND BIOSYSTEMS ENGINEERING: BIOREACTORS, UPSTREAM AND DOWNSTREAM PROCESSES, MEASUREMENT AND CONTROL

2017 JOURNAL ERA MAIN AUTHOR

## PUBLICATION

---

### 14. BIODEGRADATION PATHWAY OF ACID RED 27 BY WHITE- ROT FUNGUS ARMILLARIA SP. F022 AND PHYTOTOXICITY EVALUATION

CLEAN: SOIL, AIR, WATER

2016

JOURNAL

ERA

MAIN AUTHOR

### 15. METABOLITES CHARACTERISATION OF LACCASE MEDIATED REACTIVE BLACK 5 BIODEGRADATION BY FAST GROWING ASCOMYCETE FUNGUS TRICHODERMA ATROVIRIDE F03

INTERNATIONAL BIODETERIORATION AND BIODEGRADATION

2015

JOURNAL

ERA

MAIN AUTHOR

### 16. BIODEGRADATION OF BIS-AZO DYE REACTIVE BLACK 5 BY WHITE-ROT FUNGUS TRAMETES GIBBOSA SP. WRF 3 AND ITS METABOLITE CHARACTERIZATION

WATER, AIR & SOIL POLLUTION

2014

JOURNAL

WOS

MAIN AUTHOR

## AWARDS/RECOGNITION

---

### 1. ANUGERAH PENILAI BERKUALITI

2024

UNIVERSITY

### 2. ANUGERAH PENYELIA PENYELIDIKAN MURID TERBAIK

2024

UNIVERSITY

### 3. ANUGERAH INOVASI TERBAIK BULAN APRIL

2024

UNIVERSITY

### 4. ANUGERAH INOVASI TERBAIK BULAN JUN

2024

UNIVERSITY

### 5. ANUGERAH INOVASI TERBAIK SEPTEMBER

2024

UNIVERSITY