



## DR. MOHAMAD AZANI BIN ABD KHADIR JALANI

PENSYARAH UNIVERSITI DS13

### CONTACT

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Insan

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 0

### AREAS OF EXPERTISE

Nanochemistry And Supramolecular Chemistry

Nanoscale Characterisation

Education And Extension Of Chemistry

### BIOGRAPHY

A lecturer from Kolej Permata Insan. Holds a Phd in Kimia.

### ACADEMIC QUALIFICATION

Phd in Kimia (2018)

Bachelor in Kimia (2012)

### RESEARCH

1. STRUCTURAL-OPTICAL PROPERTIES RELATIONSHIP OF GOLD NANOPARTICLES EMBEDDED IN POROUS ALUMINA MEMBRANE FOR CATALYTIC TREATMENT OF WASTEWATER

2020

COMPLETED

MAIN RESEARCHER

## PUBLICATION

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### 1. KIMIA

2022 CHAPTER IN BOOK

### 2. SAINS

2022 CHAPTER IN BOOK

### 3. HIGHLY ORDERED MESOPOROUS SILICA FILM NANOCOMPOSITES CONTAINING GOLD NANOPARTICLES FOR THE CATALYTIC REDUCTION OF 4-NITROPHENOL

2019 JOURNAL

### 4. SIZE-EXCLUSION LIQUID CHROMATOGRAPHY FOR EFFECTIVE PURIFICATION OF AMPHIPHILIC TRINUCLEAR GOLD (I) PYRAZOLATE COMPLEX

2018 JOURNAL

### 5. SYNTHESIS OF MESOPOROUS SILICA NANOCOMPOSITES FOR PREPARATION OF GOLD NANOPARTICLES

2014 JOURNAL

### 6. THERMAL HYDROGEN REDUCTION FOR SYNTHESIS OF GOLD NANOPARTICLES IN THE NANOCHANNELS OF MESOPOROUS SILICA COMPOSITE

2014 JOURNAL

## AWARDS/RECOGNITION

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### 1. ANUGERAH STAF CONTOH (DISEMBER 2025)

2025 UNIVERSITY

### 2. A GAMIFIED APPROACH TO CHEMISTRY LEARNING

2025 Kebangsaan Silver

### 3. MOLECOOL FRIENDS: AN INTERACTIVE APPROACH TO CHEMISTRY LEARNING IN SECONDARY SCHOOLS

2025 Antarabangsa Silver

### 4. THE ROLE OF GAMIFICATION IN ENHANCING CONCEPTUAL UNDERSTANDING AND ENGAGEMENT FOR SECONDARY SCHOOL CHEMISTRY

2025 Antarabangsa Silver

### 5. DUO&KEY MOLECULAR MATCH-UP: AN INNOVATIVE CARD GAME FOR TEACHING CHEMICAL BONDS TO SECONDARY SCHOOL STUDENTS

2025 Antarabangsa Gold