



ARIF HIDAYAT

Associate Professor

PROFILE

Dr. Arif Hidayat is a faculty member at the Department of Chemical Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia (UII). His research expertise lies in the fields of chemical reaction engineering, heterogeneous catalysis, renewable energy, and sustainable chemical process development. Over the years, Dr. Hidayat has built a strong academic foundation focused on transforming industrial and agricultural waste into value-added materials, particularly catalysts for biofuel production.

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EDUCATION

Gadjah Mada University, Indonesia
1993-1999

Bachelor in Chemical Engineering

Gadjah Mada University, Indonesia
2023-2006

Master in Chemical Engineering

Gadjah Mada University, Indonesia
2010-2016

Doctor in Chemical Engineering

PUBLICATION *(selected)*

- *Bio-Oil and Bio-Hydrogen Production using Red Mud Catalyst from Oil Palm Biomass Waste*, Journal of Oil Palm Research, 2026, 38(1), pp. 136–146
- *Functionalization of bauxite tailing waste into supported ZnO as photocatalyst for dyes removal*, Next Materials Open source preview, 2026, 11, 101984
- *Enhancing Titanium Content on Red Mud using Leaching Technique using Bromic Acid*, E3S Web of Conferences, 2025, 655, 01026
- *CO₂-mediated oxidative dehydrogenation of propane to propylene and syngas: Reaction and energy performance matrices*, International Journal of Hydrogen Energy, 2024, 86, 363-373
- *Production of sustainable methanol from aquatic biomass via thermal conversion route*, Process Safety and Environmental Protection, 2024 186, 1286-1296
- *Simulation and evaluation of fuel distribution line from fuel terminal Tuban into integrated terminal Perak at PT Pertamina MOR V through ASPEN Plus® modeling*, Journal of Process Design, 2024, 18 (2), 129-136
- *Biodiesel production from rice barn oil using red mud as catalyst*, Journal of Chemical Engineering Innovation, 2024, 9 (4), 304-310
- *Biodiesel production from free fatty acid using ZrO₂/bagasse fly ash catalyst*, International Journal of Technology, 2023, 14 (1), 206-218
- *Stable and magnetically separable nanocomposite prepared from bauxite mining tailing waste as catalyst in wet peroxidation of tetracycline*, Results in Chemistry, 2022, 4, 100451
- *Co-Pyrolysis of Disposable Mask with Sugarcane Bagasse*, Materials Science Forum, 2021, 1073, 161-166
- *Synthesis dimethyl ether from methanol using red mud catalyst*, Materials Science Forum, 2021, 1029, 147-152