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.

CONTACT

PHONE:
+62-858-7830-6968

EMAIL:
arif.hidayat@uii.ac.id

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, 2025, 1, 363-373

CO_2-mediated oxidative dehydrogenation of propane to propylene and syngas: Reaction and energy performance matrices, International Journal of Hydrogen Energy, 2024, 86, 363-373

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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 ZrO_2/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