

CURRICULUM VITAE



Name : Novi Syaftika
Current Profession : Researcher
Current Employer : National Research and Innovation Agency, Indonesia/BRIN
Current Department : Research Center for Process and Manufacturing Industry Technology
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Website of recent project : <https://tinyurl.com/macroalgaaindonesia>

Field of works

Involved in biomass utilization for bioenergy and valuable products for various purposes. The most recent project focuses macroalgae utilization for hydrogen, char, biofuel and high value chemicals production. Recently has interest in exploring biomass for soil amendment and carbon sequestration.

Educations:

Bachelor: Padjadjaran University, 2007, Master: Hiroshima University, 2015, Doctoral: Hiroshima University, 2018

Organizations

1. Indonesian Researcher Association (*Perhimpunan Periset Indonesia*), Central Administrator as a member of Cooperation Division, (2021-2025).
2. Resilience Development Initiative (RDI), Indonesia, Fellow (2022 – current)

Selected Recent Publications

1. Macroalgae and Microalgae as Mixed Feedstock to Produce Hydrogen Under Sub-Critical Water Gasification, *Evergreen*, Vol.11(3), pp.2427-2437, 2024.
2. Valorization of Rejected Macroalgae *Kappaphycopsis cottonii* for Bio-Oil and Bio-Char Production via Slow Pyrolysis, *ACS omega*, 9(14), 16665-16675, 2024.
3. Co-Production of Hydrochar and Bioactive Compounds from *Ulva lactuca* via a Hydrothermal Process, *Carbon Resources Conversion*, 2023.
4. Degradation Rate of Brown Macroalgae *Sargassum* sp. Conversion to Bio-Oil via A Slow Pyrolysis; *International Journal of Renewable Energy Research (IJRER)* 13 (2), 750-756, 2023
5. Valorization of brown macroalgae *Sargassum plagiophyllum* for biogas production under different salinity conditions, *Bioresource Technology Reports* 22, 101403, 2023
6. Green algae to green fuels: Syngas and hydrochar production from *Ulva lactuca* via sub-critical water gasification, *Algal Research* 67, 102834
7. In-depth study of bio-oil and biochar production from macroalgae *Sargassum* sp. via slow pyrolysis; *RSC advances* 12 (16), 9567-9578, 2022
8. Recent advancement on hydrogen production from macroalgae via supercritical water gasification; *Bioresource Technology Reports*, 16, 2021

Books

1. *Bioenergi dari Makroalga*, IPB Press, Indonesia, 2024
2. Chapter: Towards Macroalgal Biorefinery via Integrative Production of Bioactive Compounds, Caloric-gas and Carbon-based Porous Materials, *Blue-Bioeconomy: Value-Added Product from Marine Algae and Microorganisms*. Royal Society of Chemistry, 2024
3. *Action Plan: Transisi Energi Baru Terbarukan dengan Teknologi Hijau Menuju Net Zero Emission* (Action Plan: New and Renewable Energy Transition with Green Technology towards Net Zero Emission), BRIN, Indonesia, 2021.