



CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to

**Adila Fazliyana Aili Hamzah, Muhammad Hazwan Hamzah, Hasfalina Che Man,
Nur Syakina Jamali, and Shamsul Izhar Siajam**

**Optimization of subcritical water pre-treatment for biogas enhancement on co-digestion of
pineapple waste and cow dung using the response surface methodology**

for their invaluable presentation/demonstration awarded a **GOLD MEDAL: International Session - Open Research
Track in Management, Energy and other Related Topics Theme** during the FENETT 2022 Online International &
National Conference held in Chiang Mai, Thailand on April 4, 2022.


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