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Pendidikan:

S1 – Teknik Kimia Universitas Sumatera Utara 1995

S2 – Teknik Kimia Institut Teknologi Bandung 2000

S3 – Kejuruteraan Kimia Universiti Teknologi Malaysia 2015

Publications

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Jurnal internasional bereputasi

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Prosiding seminar internasional

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2020
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2018
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2018
Jurnal internasional

Production of biogas from co-digestion of empty fruit bunches (EFB) with palm oil mill effluent (POME): effect of mixing ratio.

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Study on potency of municipal solid waste conversion into renewable energy by thermal incineration and bioconversion: Case study of Medan city

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Optimization of palm fruit sterilization by microwave irradiation using response surface methodology

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Study on hydrolysis of Oil Palm's Empty Fruit Bunch using microwave irradiation

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