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Competing interests	—

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Bio Statement	—

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MAP

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Title and Abstract

Title	Conversion of Green Silica from Corn Leaf into Zeolites Na A-X
Abstract	Biomass is a renewable energy source which potentially replace the fossil fuels. An example of biomass is corn leaf which is generated enormously as an agricultural waste. Combustion of corn leaf is a simple way to obtain the energy. However, corn leaf combustion produces a low value by product ash which is rich in silica. The green silica from corn leaf could become a precursor for zeolites production. In this investigation, acid treated corn leaves combustion was performed to produce hight purity silica (SiO_2). The diffraction pattern suggested that the extracted silica was an amorphous without impurities phase. Additionally, the nitrogen isotherm indicated that the material was highly mesoporous silica with total surface area 200 m^2/g. The hydrothermal method was then applied with molar ratio of $1.25SiO_2:1Al_2O_3:5Na_2O:250H_2O$ to synthesize zeolites from the silica. Temperature and time effect on the hydrothermal zeolite's synthesis were investigated. The diffraction pattern shows that high crystalline zeolite Na A-X was produced at temperature 100 ^oC and 8 h hydrothermal time. According to nitrogen physisorption analysis, the zeolite Na A-X was consisted of micropore with total surface area 270 m^2/g. The morphology of zeolite Na A-X was cube for the Na-A and octahedral for the Na-X. This research suggested that after utilization energy from the biomass, the ash waste could be valorised through conversion into a high economic value zeolite.

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JOURNAL CONTENT

Search

Search Scope

All

Search

Browse

- By Issue
- By Author
- By Title
- Other Journals

INFORMATION

- For Readers
- For Authors
- For Librarians

INDEXS

Scopus

Academic discipline and sub-disciplines	—
Keywords	—
Language	en

Supporting Agencies

Agencies	—

References

References	—

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