

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : JURNAL INTERNASIONAL**

Judul Artikel : Encapsulation, Properties, and Thermal Study of Red Biocolorant from Selected Plants Obtained Through Physical Extraction  
 Jumlah Halaman : 6 (enam) Halaman : 371-376  
 Jumlah Penulis : 5 orang Nama Penulis : Renny Indrawati, Diah Mustika Lukitasari, **Yuyun Yuniati**, Heriyanto, dan Leenawaty Limantara  
 Status Pengusul : ~~penulis mandiri / penulis utama / penulis pertama / penulis korespondensi~~ / penulis anggota  
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Malang, 15 November 2019  
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**LEMBAR  
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T. Wajima and S. Onishi

In this study, we attempted to continuously treat waste perlite dust by alkali fusion using a rotary kiln, to synthesize faujasite zeolite. A mixture of perlite dust and sodium hydroxide (NaOH) powder with three different mixture ratios (by weight) of 1:0.5, 1:0.8, and 1:1 was charged into a rotary kiln, and heated at 380 °C or 450 °C for 30 min. The resultant fused material was then converted into faujasite, a zeolite product, by heating it at 80 °C for 12 h followed by shaking for 24 h in distilled water at room temperature. It was confirmed that sodium silicate was formed using the rotary kiln, and the dissolution of Si and Al in the fused dust increased with increasing NaOH addition near the exit of the kiln. Faujasite could be synthesized for all fused conditions, and ...[\[Read More\]](#)

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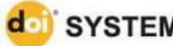


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