

Accepted Manuscript

Enhancing the hydration reactivity of hemi-hydrate phosphogypsum through a morphology-controlled preparation technology

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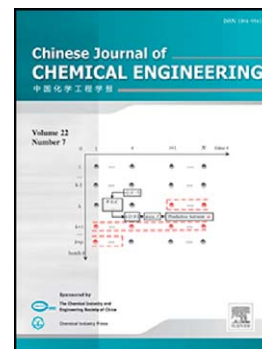
PII: S1004-9541(16)30264-6
DOI: doi: [10.1016/j.cjche.2016.04.006](https://doi.org/10.1016/j.cjche.2016.04.006)
Reference: CJCHE 508

To appear in:

Received date: 2 December 2015
Revised date: 25 February 2016
Accepted date: 3 March 2016

Please cite this article as: Lin Yang, Jianxin Cao, Caiyu Li, Enhancing the hydration reactivity of hemi-hydrate phosphogypsum through a morphology-controlled preparation technology, (2016), doi: [10.1016/j.cjche.2016.04.006](https://doi.org/10.1016/j.cjche.2016.04.006)

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Separation Science and Engineering

Coalescence behaviour of water droplets in water-oil interface under pulsatile electric fields

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Article history:

Received 24 September 2015

Received in revised form 18 January 2016

Accepted 1 March 2016

Available online xxxx

Abstract

In this research, the deformation of water droplets in sunflower oil-interface under pulsatile electric field was studied experimentally. Three types of coalescence were observed: (i) complete coalescence, (ii) incomplete coalescence and (iii) no-coalescence. The first type is desirable because of leaving no secondary droplets. The second type produced secondary droplets which was caused by necking process, due to extreme elongation of droplets (mostly small droplets), was undesirable; because the small droplets were more difficult to coalesce and remove. The no-coalescence was caused by very fast coalescence and extensive pushing of droplet into the continuous phase. In this work the process was operated

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