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Dr I. Istadi

Editorial Office of Bulletin of Chemical Reaction Engineering & Catalysis
Department of Chemical Engineering, Diponegoro University
Jl. Prof. Soedarto, Kampus UNDIP Tembalang, Semarang, Central Java, Indonesia 50275

23 September 2016

Re: Cover letter for publication to the Bulletin of Chemical Reaction Engineering and Catalysis

Dear Dr. Istadi,

Please find a brief summary of my scientific findings described in the article titled: "*Variability of Data in High Throughput Experimentation for Catalyst Studies in Fuel Processing*" below.

In high throughput studies, the variability of data resulting from the experimental method is not routinely taken into account and results are often reported without this consideration. In this research project, four studies involving water-gas shift conversion and high temperature steam methane reforming, were performed. The reproducibility and variance in high throughput catalyst preparation and parallel testing were determined where statistical analyses showed the standard deviation in catalytic activities as determined by conversion, to be less than 6% of the average value.

The performance data collected in this study represents approximately 1000 hours per sample, which under conventional single reactor test protocols would have taken well over a year to achieve. This, along with the high accuracy and reproducibility shown in this study, clearly show that high throughput tools are extremely valuable for catalyst development.

Sincerely,

A handwritten signature in black ink, appearing to be 'NL' with a long horizontal stroke extending to the right.

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