

Institute of Chemical Engineering

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Comparative studies of monolithic continuous-flow microreactors and packed bed reactors in the esterification reaction

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Abstract: Continuous-flow silica monolithic microreactors functionalized with acidic centers were obtained. The monoliths exhibited different structural parameters; in particular the size of flow-through macropores. The performance of microreactors and packed bed reactors with Amberlyst 15 and silica gel with acidic centers was compared in esterification of acetic acid with butanol.

Attachments:

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