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Optimization of spray dried attrition-resistant iron based oxygen carriers for chemical looping reforming

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Abstract

In chemical looping reforming oxygen carriers suffer from attrition, which must be reduced to increase their lifetime. Therefore, the production of Fe-based carriers by spray drying was optimized in order to obtain mechanically strong particles with a homogeneous microstructure and dimensions fit for industrial fluidized CL-processes. The influence of the concentration of the binder and

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