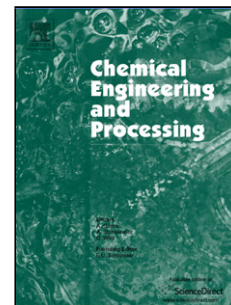


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**Global hydrodynamic of hybrid external loop airlift
reactor: experiments and CFD modelling**

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