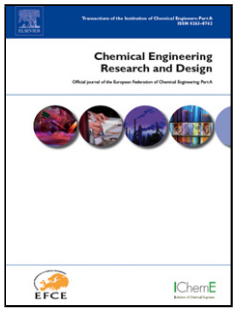

Title: Effects of surfactants on hydrodynamics and mass transfer in a co-current downflow contacting column

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Highlights

- The co-current downflow contacting column (CDCC) was used in the experiments.
- The effect of surfactant addition on CDC column hydrodynamics were investigated.
- Empirical correlations were proposed for evaluating gas hold-up and volumetric mass transfer coefficient.
- The average error between the correlation predictions and experimental values were under 10%.