

CREL PUBLICATIONS

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2. Catalytic wet air oxidation of phenol in concurrent downflow and upflow packed-bed reactors over pillared clay catalyst, J. Guo, M.H. Al-Dahhan, *Chemical Engineering Science*, 60(3), 735-746 (2005).
3. Characterization of the hydrodynamic flow regime in bubble columns via computed tomography, A. Shaikh, M.H. Al-Dahhan, *Flow Measurement and Instrumentation*, 16(2-3), 91-98 (2005).
4. Dynamic Modeling of Slurry Bubble Column Reactors, N. Rados, M.H. Al-Dahhan, M.P. Dudukovic, *Industrial & Engineering Chemistry Research*, 44(16), 6086-6094 (2005).
5. Experimental investigation of the hydrodynamics in a liquid-solid riser, S. Roy, A. Kemoun, M.H. Al-Dahhan, M.P. Dudukovic, *AIChE Journal*, 51(3), 802-835 (2005).
6. Flow pattern visualization in a mimic anaerobic digester using CFD, M. Vesvikar, M.H. Al-Dahhan, *Biotechnology and Bioengineering*, 89(6), 719-732 (2005).
7. Gas-liquid flow generated by a Rushton turbine in stirred vessel: CARPT/CT measurements and CFD simulations, A.R. Khopkar, A.R. Rammohan, V.V. Ranade, M.P. Dudukovic, *Chemical Engineering Science*, 60(8-9), 2215-2229 (2005).
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12. Multiphase Flow Packed-Bed Reactor Modeling: Combining CFD and Cell Network Model, Y. Jiang, J. Guo, M.H. Al-Dahhan, *Industrial & Engineering Chemistry Research*, 44(14), 4940-4948 (2005).
13. Numerical simulation of bubble columns flows: effect of different breakup and coalescence closures, P. Chen, J. Sanyal, M.P. Dudukovic, *Chemical Engineering Science*, 60(4), 1085-1101 (2005).
14. Phase distribution in a high pressure slurry bubble column via a single source computed tomography, N. Rados, A. Shaikh, M.H. Al-Dahhan, *Canadian Journal of Chemical Engineering*, 83(1), 104-112 (2005).
15. Solids motion and holdup profiles in liquid fluidized beds, S. Limtrakul, J. Chen, P.A. Ramachandran, M.P. Dudukovic, *Chemical Engineering Science*, 60(7), 1889-1900 (2005).
16. Three-dimensional simulation of bubble column flows with bubble coalescence and breakup, P. Chen, M.P. Dudukovic, J. Sanyal, *AIChE Journal*, 51(3), 696-712 (2005).
17. A sequential approach to modeling catalytic reactions in packed-bed reactors, Guo, Jing; Al-Dahhan, Muthanna, *Chemical Engineering Science*, 59(10), 2023-2037 (2004).
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39. Eulerian Flow Field Estimation from Particle Trajectories: Numerical Experiments for Stirred Tank Type Flows, Rammohan, Aravind R.; Dudukovic, Milorad P.; Ranade, Vivek V., *Industrial & Engineering Chemistry Research*, 42(12), 2589-2601 (2003).
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