



## Polycondensation

1. Kinetics of transesterification of dimethyl terephthalate with 1,4-butanediol catalyzed by tetrabutyl titanate (J. Hsu and K.Y. Choi), **J. Appl. Polym. Sci.**, 32, 3117-3132 (1986).
2. Kinetics of transesterification of dimethyl terephthalate with 1,4-butanediol and poly(tetramethylene ether) glycol catalyzed by tetrabutyl titanate (J. Hsu and K.Y. Choi), **J. Appl. Polym. Sci.**, 33, 329-341 (1986).
3. A modeling of semibatch reactors for metal acetate catalyzed transesterification of dimethyl terephthalate with ethylene glycol (K.Y. Choi), **Polym. Eng. Sci.**, 27(22), 1703-1712 (1987).
4. Optimal state estimation in the transesterification stage of a continuous poly(ethylene terephthalate) condensation polymerization process (K.Y. Choi and A.A. Khan), **Chem. Eng. Sci.**, 43(4), 749-762 (1988).
5. Steady state and transient behavior of a continuous polyethylene terephthalate condensation polymerization process. I. Melt transesterification stage (A.A. Khan and K.Y. Choi), **J. Appl. Polym. Sci.**, 37, 707-728 (1989).
6. Identification and characterization of reaction products in the polymerization of polyethylene terephthalate—A review (J.M. Besnoin and K.Y. Choi), **J. Macromol. Sci.-Revs. Macromol. Chem. Phys.**, C29(1), 5-81 (1989).
7. Melt transesterification of dimethyl terephthalate with ethylene glycol (J.-M. Besnoin and K.Y. Choi), **A.I.Ch.E.J.**, 35(9), 1445-1456 (1989).
8. Melt transesterification of diphenyl carbonate with bisphenol A in a batch reactor (S.N. Hersh and K.Y. Choi), **J. Appl. Polym. Sci.**, 41, 1033-1046 (1989).
9. A melt polymerization of poly(ethylene terephthalate) in semibatch stirred reactors (G.D. Lei and K.Y. Choi), **J. Appl. Polym. Sci.**, 41, 2987-3024 (1990).
10. Two phase model for continuous final stage melt polycondensation of poly(ethylene terephthalate) I. Steady state analysis (C. Laubriet, B. LeCorre and K.Y. Choi), **Ind. Eng. Chem. Res.**, 29(1), 2-12 (1991).
11. Two phase model for continuous final stage melt polycondensation of poly(ethylene terephthalate) II. Analysis of dynamic behavior (H. Castres Saint Martin and K.Y. Choi), **Ind. Eng. Chem. Res.**, 30, 1712-1718 (1991).
12. Kinetics of melt transesterification of dimethyl terephthalate with bis(2-hydroxy ethyl) terephthalate for the synthesis of poly(ethylene terephthalate) (G.D. Lei and K.Y. Choi), **Ind. Eng. Chem. Res.**, 31(3), 769-777 (1992).
13. Kinetics of melt transesterification of diphenyl carbonate and bisphenol A to polycarbonate with LiOH.H<sub>2</sub>O catalyst (Y.S. Kim, K.Y. Choi and T.A. Chamberlin), **Ind. Eng. Chem. Res.**, 31(9), 2118-2127 (1992).
14. Multistage melt polycondensation of bisphenol-A and diphenyl carbonate to polycarbonate (Y.S. Kim and K.Y. Choi), **J. Appl. Polym. Sci.**, 49, 747-764 (1993).
15. Experimental and modeling studies on melt transesterification of dimethyl terephthalate with ethylene glycol in a continuous stirred tank reactor (G.D. Lei and K.Y. Choi), **Ind. Eng. Chem. Res.**, 32(5), 800-808 (1993).
16. Recent developments in polycarbonate production processes (Y.S. Kim and K.Y. Choi), **Polym. Sci. Technol.** (Korea), 4(5), 365-379 (1993).
17. A study on the polymer layer forming phenomena in a rotating disk polycondensation reactor (S.I. Cheong and K.Y. Choi), **J. Appl. Polym. Sci.**, 55, 1819-1826 (1995).
18. Melt polycondensation of poly(ethylene terephthalate) in a rotating disk reactor (S.I. Cheong and K.Y. Choi), **J. Appl. Polym. Sci.**, 58, 1473-1483 (1995).



19. Modeling of a continuous rotating disk polycondensation reactor for the synthesis of thermoplastic polyesters (S.I. Cheong and K.Y. Choi), **J. Appl. Polym. Sci.**, 61(5), 763-773 (1996).
20. Melt polymerization of bisphenol-A and diphenyl carbonate in a semibatch reactor (B.G. Woo, K.Y. Choi, K.H. Song, and S.H. Lee), **J. Appl. Polym. Sci.**, **80**, 1253-1266 (2001).
21. The forced gas sweeping process for semibatch melt polycondensation of PET (B.G. Woo, K.Y. Choi, and K. Goranov), **J. Appl. Polym. Sci.** 81, 1388-1400 (2001).
22. Melt polycondensation of Bisphenol A Polycarbonate by a Forced Gas Sweeping Process (B.G. Woo, K.Y. Choi, and K.H. Song), **Ind. & Eng. Chem. Res.** 40(5), 1312-1319 (2001).
23. Melt polycondensation of Bisphenol A Polycarbonate by a Forced Gas Sweeping Process II. Continuous Rotating Disk Reactor (B.G. Woo, K.Y. Choi, and K.H. Song), **Ind. & Eng. Chem. Res.**, **40**(5), 1312-1319 (2001).
24. Two phase model for continuous final stage melt polycondensation of poly(ethylene terephthalate) III. Modeling of multiple reactors with multiple reaction zones (I.S. Kim, B.G. Woo, K.Y. Choi and C. Kiang), **J. Appl. Polym. Sci.**, **90**(4), 1088-1095 (2003).
25. Modeling of solid state polycondensation process for the production of PET (E.H. Lee, Y.K. Yeo, K.Y. Choi), **J. Chem. Eng. Japan**, 36(8), 912-925 (2003).
26. Modeling of solid state polymerization of bisphenol A polycarbonate (Y. Ye, B. Machado, K.Y. Choi, J.H. Kim and B.G. Jeong), **Ind. Eng. Chem. Res.**, 44, 6496-6503 (2005).
27. Dynamic modeling of a moving packed bed reactor for the solid-state polymerization of bisphenol A polycarbonate (Y. Ye and K.Y. Choi), **Ind. & Eng. Chem. Res.**, 47, 3687-3699 (2008).
28. Optimizing polymer reactivities for the solid-state polycondensation of AA-BB type monomers (Y. Ye, K.Y. Choi), **Polymer**, 49, 2817-2824 (2008).
29. Reduction of bisphenol A in polycarbonates in a two-stage step-growth polymerization process (Y.Ye, K.Y. Choi), **Ind. Eng. Chem. Res.**, **48**, 4274-4282 (2009).
30. Preparation of micron-sized spherulitic bisphenol A polycarbonate particles in thin films (Y. Ye, K.Y. Choi), **Macromol. Materials Eng.** **294**, 847-854 (2009).
31. Estimation of initial conditions of a prepolymer for a solid-state step-growth polymerization process (Y. Ye, K.Y. Choi), **Macromol. React. Eng.** 4, 613-620 (2010).
32. Transitions of morphological patterns of crystallizing polycarbonates in thin films (Y. Ye, B.H. Kim, J. Seog, K.Y. Choi), **J. Appl. Polym. Sci.** ([accepted for publication](#), 4/4/2011).