

Selected publications.

1. E.Santacesaria, M.Morbidelli, A.Servida, G.Storti, S.Carra', *Separation of Xylenes on Y Zeolites. Note II: Breakthrough Curves and Their Interpretation*, Ind. Eng. Chem., Proc. Des. Dev., **21**, 446-451 (1982).
2. S.Carra', E.Santacesaria, M.Morbidelli, G.Storti, D.Gelosa, *Separation of Xylenes on Y Zeolites. Note III: Pulse Curves and Their Interpretation*, Ind. Eng. Chem., Proc. Des. Dev., **21**, 451-457 (1982).
3. M.Morbidelli, G.Storti, S.Carra', *Role of Micellar Equilibria on Modelling of Batch Emulsion Polymerization Reactors*, J. Appl. Polym. Sci., **28**, 901-919 (1983).
4. M.Morbidelli, G.Storti, S.Carra', G.Niederjaufer, A.Pontoglio, *Study of a Separation Process Through Adsorption on Molecular Sieves. Application to a Chlorotoluene Isomers Mixture*, Chemical Engineering Science, **39**, 383-393 (1984).
5. M.Morbidelli, E.Santacesaria, G.Storti, S.Carra', *Separation of Xylenes on Y Zeolites in Vapor Phase.2. Breakthrough and Pulse Curves and their Interpretation*, Ind. Eng. Chem., Proc. Des. Dev., **24**, 83-88 (1985).
6. G.Storti, E.Santacesaria, M.Morbidelli, S.Carra', *Separation of Xylenes on Y Zeolites in Vapor Phase.3. Choice of the Suitable Desorbent*, Ind. Eng. Chem., Proc. Des. Dev., **24**, 89-92 (1985).
7. M.Morbidelli, G.Storti, S.Carra', G.Niederjaufer, A.Pontoglio, *Role of the Desorbent in Bulk Adsorption Separations. Application to a Chlorotoluene Isomers Mixture*, Chemical Engineering Science, **40**, 1155-1167 (1985).
8. M.Morbidelli, G.Storti, S.Carra', *Comparison of Adsorption Separation Processes in Liquid and Vapor Phase*, Ind. Eng. Chem. Fundamentals, **25**, 89-95 (1986).
9. R.Paludetto, G.Storti, G.Gamba, S.Carra', M.Morbidelli, *On Multicomponent Adsorption Equilibria of Xylene Mixtures on Zeolites*, Ind. Eng. Chem. Research, **26**, 2250-2258 (1987).
10. R.Paludetto, G.Gamba, G.Storti, S.Carra', M. Morbidelli, *Multicomponent Adsorption Equilibria of Highly Non-Ideal Mixtures: The Case of Chloroaromatic Mixtures on Zeolite*, Chemical Engineering Science, **42**, 11, 2713-2722 (1987).
11. G.Storti, M.Masi, R.Paludetto, M.Morbidelli, S.Carra', *Adsorption Separation Processes: Countercurrent and Simulated Countercurrent Operations*, Computers and Chemical Engineering, **12**, 475-482 (1988).
12. E.Giannetti, G.Storti, M.Morbidelli, *Emulsion Polymerizations. I. A Novel Approach to the Evaluation of the Molecular Weight Distributions*, J. Polymer Science: Polym. Chem., **26**, 1835-1865 (1988)
13. E.Giannetti, G.Storti, M.Morbidelli, *Emulsion Polymerizations. II. Kinetics, Molecular Weight Distributions and Polymer Microstructure of Emulsion Copolymers*, J. Polymer Science: Polym. Chem., **26**, 2307-2343 (1988).

14. G.Storti, M.Masi, S.Carra', M.Morbidelli, *Modelling and Design of Simulated Moving-bed Adsorption Separation Units*, Preparative Chromatography, **1**, 1-27 (1988).
15. G.Storti, M.Morbidelli, S.Carra', G.Vita, *Kinetics of Multimonomer Emulsion Polymerization. The Pseudo-Homopolymerization Approach*, J. Appl. Polym. Sci., **37**, 2443-2467 (1989).
16. G.Storti, M.Masi, S.Carra', M.Morbidelli, *Optimal Design of Multicomponent Countercurrent Adsorption Separation Processes Involving Nonlinear Equilibria*, Chemical Engineering Science, **44**, 1329-1345 (1989).
17. G.Gamba, R.Rota, G.Storti, S.Carra', M. Morbidelli, *Adsorbed Solution Theory Models for Multicomponent Adsorption Equilibria*, AIChE Journal, **35**, 959-966 (1989).
18. V.DiNoto, L.Pavanello, M.Viviani, G.Storti, S.Bresadola, *A Kinetic Investigation of Ethyl Formate Elimination from the $[MgCl_2(HCOOC_2H_5)_2]_n$ Adduct Using Thermoanalytical Data*, Thermochemica Acta, **189**, 223-233 (1991).
19. G.Storti, G.Polotti, M.Cociani, M.Morbidelli, *Molecular Weight Distribution in Emulsion Polymerization. I: The Homopolymer Case*, J. Polymer Science: Polymer Chem., **30**, 731-750 (1992).
20. G.Storti, G.Polotti, P.Canu, M.Morbidelli, *Molecular Weight Distribution in Emulsion Polymerization. II: The Copolymer Case*, J. Polymer Science: Polymer Chem., **30**, 751-777 (1992).
21. G.Storti, M.Masi, M.Morbidelli, *Modelling of Countercurrent Adsorption Processes*, in "Preparative and Production Scale Chromatographic Methods and Applications", G.Ganetsos and P.E.Barker (Eds.), pgs. 673-700, Marcel Dekker, Inc., New York (1992).
22. G.Storti, M.Mazzotti, L.T.Furlan, M.Morbidelli, S.Carra', *Performance of a Six Port Simulated Moving Bed Pilot Plant for Vapor-Phase Adsorption Separations*, Separation Science and Technology, **27**, 1889-1916 (1992).
23. S.Canegallo, G.Storti, M.Morbidelli, S.Carra', *Densimetry for On-line Conversion Monitoring in Emulsion Homo- and Co-polymerization*, J. Applied Polym. Sci., **47**, 961-979 (1993).
24. G.Storti, M.Mazzotti, M.Morbidelli, S.Carra', *Robust Design of Countercurrent Adsorption Separation Processes Involving Binary Non-Linear Equilibria*, AIChE Journal, **39**, 471-492 (1993).
25. M.Mazzotti, G.Storti, M.Morbidelli, *Shock Layer Analysis in Multicomponent Chromatography and Countercurrent Adsorption*, Chemical Engineering Science, **49**, 1337-1355 (1994).
26. G.Storti, M.Mazzotti, L.T.Furlan, R.Bacocchi, M.Morbidelli, *Adsorption Separation of Xylene Isomers on KY Zeolite*, Materials Engineering, **5**, 261-272 (1994).
27. M.Mazzotti, G.Storti, M.Morbidelli, *Robust Design of Countercurrent Adsorption Separation Processes. 2. Multicomponent Systems*, AIChE Journal, **40**, 1825-1842 (1994).

28. P.Canu, S.Canegallo, M.Morbidelli, G.Storti, *Composition Control in Emulsion Copolymerization. 1. Optimal Monomer Feed Policies*, J. Applied Polym. Sci., **54**, 1899-1917 (1994).
29. S.Canegallo, P.Canu, M.Morbidelli, G.Storti, *Composition Control in Emulsion Copolymerization. 2. Applications to Binary and Ternary Systems*, J. Applied Polym. Sci., **54**, 1919-1935 (1994).
30. G.Storti, R.Baciocchi, M.Mazzotti, M.Morbidelli, *Design of Optimal Operating Conditions of SMB Adsorptive Separation Units*, Ind. Eng. Chem. Research, **34**, 288-301 (1995).
31. S.Canegallo, M.Apostolo, G.Storti, M.Morbidelli, *On-line Conversion Monitoring through Ultrasound Propagation Velocity Measurements in Emulsion Polymerization*, J. Applied Polym. Sci., **57**, 1333-1346 (1995).
32. A.Bertucco, F.Sanmartin, G.Storti, *Simulated Moving Bed Technology for Continuous, Countercurrent Solid-Fluid Supercritical Extraction*, J. Supercrit. Fluid, **8**, 138-148 (1995).
33. M.Mazzotti, R.Baciocchi, G.Storti, M.Morbidelli, *Vapor-Phase SMB Adsorptive Separation of Linear/Nonlinear Paraffins*, Ind. Eng. Chem. Research, **35**, 2313-2321 (1996).
34. M.Mazzotti, G.Storti, M.Morbidelli, *Robust Design of Countercurrent Adsorption Separation Processes. 3. Nonstoichiometric Systems*, AIChE Journal, **42**, 2784-2796 (1996).
35. R.Tognacci, G.Storti, A.Bertucco, *Measurements of Monomer Partitioning in Emulsion Copolymerization Systems*, J. Applied Polym. Sci., **62**, 2341-2349 (1996).
36. M.Mazzotti, G.Storti, M.Morbidelli, *Robust Design of Countercurrent Adsorption Separation Processes. 4. Desorbent in the Feed*, AIChE Journal, **43**, 64-72 (1997).
37. K.Kaczmarek, M.Mazzotti, G.Storti, M.Morbidelli, *Modeling Fixed-Bed Adsorption Columns through Orthogonal Collocations on Moving Finite Elements*, Computers and Chemical Engineering, **21**, 641-660 (1997).
38. S.Fiorentino, A.Ghielmi, G.Storti, M.Morbidelli, *Nonlinear Chain-Length Distributions in Free-Radical Polymerization*, Ind. Eng. Chem. Research, **36**, 1283-1301 (1997).
39. A.Ghielmi, S.Fiorentino, G.Storti, M.Mazzotti, M.Morbidelli, *Long Chain Branching in Emulsion Polymerization*, Journal of Polymer Science, Part A: Polym. Chem., **35**, 827-858 (1997).
40. M.Mazzotti, G.Storti, M.Morbidelli, *Optimal Operation of Simulated Moving Bed Units for Nonlinear Chromatographic Separations*, Journal of Chromatography A, **769**, 3-24 (1997).
41. M.Mazzotti, G.Storti, M.Morbidelli, *Supercritical Fluid Simulated Moving Bed (SF-SMB) Chromatography*, Journal of Chromatography A, **786**, 309-320 (1997).
42. M.Morbidelli, G.Storti, A.Siani, *Monitoring Polymerization Reactors by Ultrasound Sensors*, in "Polymeric Dispersions: Principles and Applications", J.M.Asua (ed.), 257-266, Kluwer Academic Publishers, London (1997).

43. M.Morbidelli, G.Storti, *Open-Loop Control of Polymerization Reactors*, in "Polymeric Dispersions: Principles and Applications", J.M. Asua (ed.), 349-361, Kluwer Academic Publishers, London (1997).
44. B.Neri, M.Mazzotti, G.Storti, M.Morbidelli, *Multicomponent Distillation Design through Equilibrium Theory*, Ind. Eng. Chem. Res., **37**, 2250-2270 (1998).
45. F.Galimberti, A.Siani, M.Morbidelli, G.Storti, *Applications of Composition Control to Styrene-Butylacrylate Emulsion Polymerization*, Chemical Engineering Communications, **163**, 69-95 (1998).
46. M.Mazzotti, G.Storti, D.Gelosa, L.Lorenzetti, M.P.Pedefferri, M.Morbidelli, *Chromatographic Resolution of Enantiomers*, Chemical Engineering Communications, **163**, 55-68 (1998).
47. A.Ghielmi, S.Fiorentino, G.Storti, M.Morbidelli, *Molecular Weight Distribution of Crosslinked Polymers Produced in Emulsion*, Journal of Polymer Science, Part A: Polym. Chem., **36**, 1127-1156 (1998).
48. A.Ghielmi, G.Storti, M.Morbidelli, W.H.Ray, *Molecular Weight Distribution in Emulsion Polymerization: Role of Active Chain Compartmentalization*, Macromolecules, **31** (21), 7172-7186 (1998).
49. M.Apostolo, V.Arcella, G.Storti, M.Morbidelli, *Kinetics of the Emulsion Polymerization of Vinylidene Fluoride and Hexafluoropropylene*, Macromolecules, **32** (4), 989-1003 (1999).
50. A.K.Hipp, G.Storti, M.Morbidelli, *Particle Sizing in Colloidal Dispersions by Ultrasound. Model Calibration and Sensitivity Analysis*, Langmuir, **15**, 2338-2345 (1999)
51. A.K.Hipp, G.Storti, M.Morbidelli, *On Multiple-Particle Effects in the Acoustic Characterization of Colloidal Dispersions*, J. Phys. D: Appl. Phys., **32**, 568-576 (1999)
52. A.Siani, G.Storti, M.Morbidelli, *Procedure for Calibrating an Ultrasonic Sensor for Online Monitoring of Conversion in Latex Reactors*, Journal of Applied Polymer Science, **72**, 1451-1477 (1999)
53. A.Butté, G.Storti, M.Morbidelli, *Kinetics of "Living" Free Radical Polymerization*, Chem. Eng. Science, **54** (15-16), 3225-3231 (1999)
54. S.Forcolin, A.M.Marconi, A.Ghielmi, A.Butté, G.Storti, M.Morbidelli, *Coagulation Phenomena in Emulsion Polymerization of Vinyl Chloride*, Plastics, Rubber and Composites, **28** (3), 109-115 (1999)
55. S.Melis, M.Verduyn, G.Storti, M.Morbidelli, J.Baldyga, *Effect of Fluid Motion on the Aggregation of Small Particles Subject to Interaction Forces*, AIChE Journal, **45** (7) 1383 -1393 (1999)
56. A.Butté, A.Ghielmi, G.Storti, M.Morbidelli, *Calculation of Molecular Weight Distributions in Free-radical Polymerization with Chain Branching*, Macromol. Theory Simul. **8** (5), 498-512 (1999)
57. A.Sliepcevich, G.Storti, M.Morbidelli, *Measurements of Diffusivity and Solubility of Olefins in Polypropylene by Gas Chromatography*, J. Applied Polym. Sci., **78**, 464-473 (2000).
58. S.Melis, M.Kemmere, M.Meuldijk, G.Storti, M.Morbidelli, *A Model for the Coagulation of Polyvinylacetate Particles in Emulsion*, Chem. Eng. Sci., **55** (16), 3101-3111 (2000).

59. A. Butte', G. Storti, M. Morbidelli, *Miniemulsion Living Free Radical Polymerization of Styrene*, *Macromolecules*, **33** (9), 3485-3487 (2000).
60. S. Giacobello, G. Storti, G. Tola, *Design of a Simulated Moving Bed Unit for Sucrose-Betaine Separations*, *J. Chromat. A*, **872** (1-2), 23-35 (2000).
61. G. Storti, A.K. Hipp, M. Morbidelli, *Monitoring Latex Reactors by Ultrasonics*, *Polym. React. Eng.*, **8** (1), 77-94 (2000).
62. A. Ghielmi, G. Storti, M. Morbidelli, *Role of Active Chain Segregation in Emulsion Polymerization*, *Chem. Eng. Science*, **56**, 937-943 (2001).
63. A. Butté, G. Storti, M. Morbidelli, *Miniemulsion Living Free Radical Polymerization by RAFT*, *Macromolecules*, **34**, 5885-5896 (2001).
64. M. Verduyn, J. Sefcik, G. Storti, M. Morbidelli, *Particle Aggregation in Polymer Latexes*, in *Polymer Colloids, Science and Technology of Latex Systems*, E.S. Daniels, E.D. Sudol and M.S. El-Aasser (eds), ACS, Washington DC, 23 – 39, (2001).
65. A. Butté, G. Storti, M. Morbidelli, *Evaluation of the Chain Length Distribution in Free-Radical Polymerization, 1. Bulk Polymerization*, *Macromol. Theory Simul.*, **11**, 22-36 (2002).
66. A. Butté, G. Storti, M. Morbidelli, *Evaluation of the Chain Length Distribution in a Free-Radical Polymerization, 2. Emulsion Polymerization*, *Macromol. Theory Simul.*, **11**, 37-52 (2002).
67. A.K. Hipp, G. Storti, M. Morbidelli, *Acoustic Characterization of Concentrated Suspensions and Emulsions. 1. Model Analysis*, *Langmuir*, **18**, 391-404 (2002).
68. A.K. Hipp, G. Storti, M. Morbidelli, *Acoustic Characterization of Concentrated Suspensions and Emulsions. 2. Experimental Validation*, *Langmuir*, **18**, 405-412 (2002).
69. A. Butté, G. Storti, M. Morbidelli, *Emulsion Polymerization: Radical Segregation and its Role in Controlled Polymerization*, *Macromol. Symp.* **182**, 181-194 (2002).
70. M. Apostolo, V. Arcella, G. Storti, M. Morbidelli, *Free Radical Controlled Polymerization of Fluorinated Copolymers Produced in Microemulsion*, *Macromolecules*, **35**, 6154-6166 (2002).
71. J. Sefcik, M. Verduyn, G. Storti, M. Morbidelli, *Charging of Latex Particles Stabilized by Sulfate Surfactant*, *Langmuir*, **19**, 4778-4783 (2003).
72. L.P. Adjadj, G. Storti, M. Morbidelli, *Ultrasound Attenuation in Polystyrene Latexes*, *Langmuir*, **19**, 3953-3957 (2003).
73. A. Butté, G. Storti, M. Morbidelli, *Living Free Radical Polymerization of Styrene*, in "Modern Styrenic Polymers: Polystyrenes and Styrenic Copolymers", J. Scheirs and D. Priddy (eds), Chapter 6, 111-128, J. Wiley, NY (2003).
74. D. Peklak, A. Butté, G. Storti, M. Morbidelli, *A Discretization Method for Computing Chain Length Distributions*, *Macromol. Symp.*, **206**, 481-494 (2004).
75. A. Rosell, G. Storti, M. Morbidelli, D. Bratton, S.M. Howdle, *Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide using a*

- Pseudo-Graft Stabilizer: Role of Reactor Mixing*, *Macromolecules*, **37**, 2996-3044 (2004).
76. J. Sefcik, M. Verduyn, G. Storti, M. Morbidelli, *Charging and Colloidal Stability of Electrostatically Stabilized Latex Particles*, *Progr. Colloid Polym. Sci.*, **126**, 108-113 (2004).
77. P.A. Mueller, G. Storti, M. Morbidelli, *Detailed Modeling of Methyl Methacrylate Dispersion Polymerization in Supercritical Carbon Dioxide*, *Chem. Eng. Sci.*, **60**, 1911-1925 (2005).
78. A. Rajendran, B. Bonavoglia, N. Forrer, G. Storti, M. Mazzotti, M. Morbidelli, *Simultaneous Measurements of Swelling and Sorption in Supercritical CO₂-Poly(Methyl Methacrylate) System*, *Ind. Eng. Chem. Res.*, **44**, 2549-2560 (2005).
79. P.A. Mueller, G. Storti, M. Morbidelli, M. Apostolo, R. Martin, *Modeling of Vinylidene Fluoride Heterogeneous Polymerization in Supercritical Carbon Dioxide*, *Macromolecules*, **38**, 7150-7163 (2005).
80. P.A. Mueller, G. Storti, M. Morbidelli, *Heterogeneous Polymerization in Supercritical Carbon Dioxide*, in "Supercritical Carbon Dioxide in Polymer Reaction Engineering", M.F. Kemmere and T. Meyer, Eds., Wiley-VCH, Weinheim, Ch. 6, 105-138 (2005).
81. B. Bonavoglia, G. Storti, M. Morbidelli, *Oligomers Partitioning in Supercritical CO₂*, *Macromolecules*, **38**, 5593-5601 (2005).
82. A.D. Peklak, A. Butté, G. Storti, M. Morbidelli, *Gel Effect in the Bulk Reversible Addition-Fragmentation Chain Transfer Polymerization of Methyl Methacrylate: Modeling and Experiments*, *J. Polym. Sci., Part A: Polym. Chem.*, **44**, 1071-1085 (2006).
83. B. Bonavoglia, G. Storti, M. Morbidelli, *Modeling of the Sorption and Swelling Behavior of Semicrystalline Polymers in Supercritical CO₂*, *Ind. Eng. Chem. Res.*, **45**, 1183-1200 (2006).