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- 06/001 **Mathematical modelling of atom-transfer radical polymerization using bifunctional initiators**
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- 06/002 **Modelling of atom transfer radical polymerization with bifunctional initiators: diffusion effects and case studies**
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- 06/004 **Dilute-solution structure of charged arborescent graft polymer**
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- 06/007 **Experimental study of a tetrafunctional peroxide initiator: bulk free radical polymerization of butyl acrylate and vinyl acetate**
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- 06/008 **Modelling of free radical polymerization of styrene and methyl methacrylate by a tetrafunctional initiator**
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Chem. Eng. Sci., Acc., 03/06
- 06/009 **Layer-by-layer self-assembled polyelectrolyte membranes for solvent dehydration by pervaporation**
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- 06/010 **Of the uses of the pyrene label for fluorescence studies of polymeric interfaces**
J. Duhamel
Ed. by P. Chen, Woodhead Publishing Co., 2005, pg. 214-248
- 06/011 **Study of the semidilute solutions of poly (*N,N*-dimethylacrylamide) by fluorescence and its implications to the kinetics of coil-to-globule transitions**
K. Irondi, M. Zhang, J. Duhamel
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- 06/012 **NMR analysis of butyl acrylate-methyl methacrylate-alpha methyl styrene terpolymers**
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- 06/013 **Studies of copolymers of 3-methacryloyloxyethyl-4'-methylphenyl ketone and methyl methacrylate**
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- 06/014 **A comparison of reaction mechanisms for reversible addition-fragmentation chain transfer polymerization using modeling tools**
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- 06/015 **Dynamic Monte Carlo Simulation of Atom-Transfer Radical Polymerization**
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- 06/016 **Determination of the relative importance of process factors in particle size distribution in suspension polymerization using a Bayesian experimental design technique**
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- 06/017 **Mathematical modeling of crystallization analysis fractionation (Crystaf) of polyethylene**
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- 06/018 **Chain length distributions of polyolefins made with coordination catalysts at very short polymerization times—analytical solution and Monte Carlo simulation**
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- 06/021 **Micromechanical Approach to Modeling Damage in Crystalline Polyethylene**
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- 06/022 **Characterization by dilute solution and rheological methods of polystyrene and poly(methyl methacrylate) produced with a tetrafunctional peroxide initiator**
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- 06/024 **Another perspective on the nitroxide mediated radical polymerization (NMRP) of styrene using 2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO) and dibenzoyl peroxide (BPO)**
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- 06/025 **Terpolymerization with depropagation: modeling the copolymer composition of the methyl methacrylate/alpha-methylstyrene/butyl acrylate system**
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- 06/028 **Coordination Polymerization**
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- 06/029 **A kinetic study of metallocene-catalyzed ethylene polymerization using different aluminoxane cocatalysts**
D.M. Sarzotti, D.J. Marshman, W.E. Ripmeester, J.B.P. Soares
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- 06/030 **Nitroxide-mediated radical polymerization of styrene using mono- and di-functional initiators**
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- 06/031 **Simulation of styrene polymerization by monomolecular and bimolecular nitroxide-mediated radical processes over a range of reaction conditions**
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- 05/001 **Characterization of the aggregates made by short poly(ethylene oxide) chains labelled at one end with pyrene**
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- 05/002 **Crystallization Analysis Fractionation (Crystaf)**
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- 05/003 **Microstructural characterization of molecular weight fractions of ethylene/1,7-octadiene copolymers made with a constrained geometry catalyst**
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- 05/005 **Effect of solvent quality toward the association of succinimide pendants of a modified ethylene-propylene copolymer in mixtures of toluene and hexane**
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- 05/007 **A practical approach to simulate polymerizations with minimal information**
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- 05/008 **Use of a novel tetrafunctional initiator in the free radical homo- and copolymerization of styrene, methyl methacrylate and α -methyl styrene**
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- 05/009 **Binary copolymerization with full depropagation: a study of methyl methacrylate/ α -methyl styrene copolymerization**
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- 05/010 **High temperature bulk copolymerization of methyl methacrylate and acrylonitrile: I. Reactivity ratio estimation**
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- 05/011 **Interfacial properties of amphiphilic dendritic polymers**
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Molecular interfacial phenomena of polymers and biopolymers. Ed. Pu Chen, publi. Woodhead Publishing (UK), Acc., 05/05
- 05/012 **Branching level detection in polymers**
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Encyclopedia of Chemical Processing (ECHP), S. Lee (Ed.), Marcel Dekker, NY, Acc., 05/05
- 05/013 **The importance of considering non-fluorescent pyrene aggregates for the study of pyrene-labeled associative thickeners by fluorescence**
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- 05/014 **Correlations between the viscoelastic behaviour of pyrene-labeled associative polymers and the associations of their fluorescent hydrophobes**
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- 05/015 **Self-assembled nanostructured polyelectrolyte composite membranes for pervaporation**
Z. Zhu, X. Feng and A. Penlidis
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- 05/018 **Grafting of ethylene-ethyl acrylate-maleic anhydride terpolymer with amino-terminated polydimethylsiloxane during reactive processing**
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- 04/001 **Characterization by fluorescence of the distribution of maleic anhydride grafted onto ethylene-propylene copolymers**
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- 04/002 **Dendrigraft polymers: macromolecular engineering on a mesoscopic scale**
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- 04/003 **Blob model analysis of the pH-induced fluorescence quenching of two anthracene-labeled poly(2-vinylpyridine)s**
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- 04/005 **Homopolymer and Copolymers of 4-Benzyloxycarbonylphenyl Acrylate with Glycidyl Methacrylate: Synthesis, Characterization, Reactivity Ratios and Application as Adhesive for Leather**
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- 04/007 **A study on the cocrystallization of blends of ethylene/1-olefin copolymers during crystallization analysis fractionation (Crystaf)**
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- 04/010 **High temperature copolymerization of styrene/ethyl acrylate: reactivity ratio estimation in bulk and solution**
N. Sahloul and A. Penlidis
Adv. In Polym. Techn., Acc., 03/04
- 04/011 **Fractionation**
J.B.P. Soares
Encyclopedia of Polymer Science and Technology
John Wiley and Sons, 2004
- 04/012 **The refractive index increment (dn/dc) using GPC for the alpha-methyl styrene/methyl methacrylate copolymer at 670 nm in tetrahydrofuran**
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- 04/013 **Copolymerization of alpha-methyl styrene with butyl acrylate: parameter estimation considerations**
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- 04/014 **Free radical terpolymerization of butyl acrylate/methyl methacrylate and alpha methyl styrene at high temperature**
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- 04/015 **Monte Carlo simulation of long chain branched polyolefins made with dual catalysts—a classification of chain structure in topological branching families**
L.C. Simon, J.B.P. Soares
Ind. Eng. Chem. Res., Acc., June 2004
- 04/016 **Fractionation of semi-crystalline polymers by crystallization analysis fraction (Crystaf) and temperature rising elution fractionation (Tref)**
S. Anantawaraskul, J.B.P. Soares, P.M. Wood-Adams
Adv. Polym. Sci., Acc., July 2004
- 04/017 **Copolymerization of alpha-methyl styrene with butyl acrylate: parameter estimation considerations**
T.J. Wang, M.J. Leamen, N.T. McManus, A. Penlidis
J. Macromol. Sci., Pure Appl. Chem., Acc., April 2004
- 04/018 **Free radical terpolymerization of butyl acrylate/methyl methacrylate and alpha methyl styrene at high temperature**
N.T. McManus, G. Hsieh and A. Penlidis
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- 04/019 **Free radical polymerization of methyl methacrylate with a tetrafunctional peroxide initiator**
M.J. Scolah, R. Dhib, A. Penlidis
J. Polym. Sci., Polym. Chem., Acc., June 2004
- 04/020 **Hydrosilylation of polypropylene through reactive extrusion**
M.P. Bulsari, C.Tzoganakis, A. Penlidis
ANTEC SPE 2004 63 (3), 3865-3869
- 04/021 **Modeling of the copolymerization, with depropagation, of α -methyl styrene and methyl methacrylate at an elevated temperature**
S.I. Cheong, A. Penlidis
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- 04/022 **Coordination Polymerization**
J.B.P. Soares, L.C. Simon
Handbook of Polymer Reaction Engineering, T. Meyer and J.T.F. Keurentjes (Eds.), Wiley-VCH, Weinheim
- 04/023 **A. practical approach to simulate polymerizations with minimal information**
L.M.F. Lona and A. Penlidis
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- 04/024 **Global analysis of the fluorescence decays of a pyrene-labelled polymer using a *Blob* model**
H. Siu and J. Duhamel
Macromolecules, Acc., September 2004
- 04/025 **Homopolymer of 4-Benzoylphenyl methacrylate and its copolymers with glycidyl methacrylate: synthesis, characterization, monomer reactivity ratios and application as adhesives**
S. Nanjundan, C. Sreekuttan Unnithan, C.S. Jone Selvamalar and A. Penlidis
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- 04/026 **Copolymerization of 4-Propanoylphenyl acrylate with methyl methacrylate: synthesis, characterization and reactivity ratios**
C. Sreekuttan Unnithan, A. Penlidis and S. Nanjundan
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- 04/027 **Copolymerization of benzoylphenyl methacrylate with methyl methacrylate: synthesis, characterization and determination of monomer reactivity ratios**
P. Selvam, C. Sreekuttan Unnithan, A. Penlidis, S. Nanjundan
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Studies on photocrosslinkable copolymers of 4-methacryloyloxyphenyl-3',4'-dimethoxystyryl ketone and methyl methacrylate

P. Selvam, K. Victor Babu, A. Penlidis, S. Nanjundan
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- 03/001 **Free radical polymerisation of styrene with a new tetrafunctional peroxide initiator**
S. Fityani-Trimmm, R. Dhib and A. Penlidis
Macromol. Chem. Phys, Acc. 01/03
- 03/002 **Polypropylene obtained with in-situ supported metallocene catalysts**
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- 03/003 **Chemical composition distribution of multicomponent copolymers**
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S.Y. Fung, C. Keyes, J. Duhamel and P. Chen
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- 03/006 **Quantitative phase contrast imaging of arborescent graft polystyrene by off-axis transmission electron holography**
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J. Polym. Sci: Part B: Polym. Phys., Acc., 03/03
- 03/008 **Copolymerization of 4-benzyloxycarbonylphenyl methacrylate with glycidyl methacrylate: synthesis, characterization, reactivity ratios and application as adhesives**
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- 03/009 **Modelling and simulation of complex aspects of multicomponent emulsion polymerization**
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Polymer Reaction Engineering Journal, Acc., 07/03

- 03/010 **Gas permeation through poly(ether-B-Amide) (Pebax 2533) block copolymer membranes**
J.C.Chen, Z. Feng and A. Penlidis
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- 03/011 **Side-chain dynamics of an α -helical polypeptide monitored by fluorescence**
J. Duhamel, S.Kanagalingam, T. O'Brien, M. Ingratta
J. Am. Chem. Soc., Acc., 08/03
- 03/012 **Using designed experiments in manufacturing: modern design considerations and a manufacturing case study**
T.A. Duever and H-J Graf
Proceedings of the 2003 Automotive Elastomers Conference
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- 03/013 **Comparison of fault detection techniques**
S.J. Lou, H. Budman and T.A. Duever
Journal of Process Control 13 (2003) 451-464
- 03/014 **Copolymers of 4-benzyloxycarbonylphenyl methacrylate with methyl methacrylate: synthesis, characterization and reactivity ratios**
C.S. Jone Selvamalar, A. Penlidis and S. Nanjundan
J. Macromol. Sci., Part A—Pure and Appl. Chem., Vol A40, 10 (2003) 1019-1033
- 03/015 **A protocol for the estimation of parameters in process models: case studies with polymerization scenarios**
A.L. Polic, L.M.F. Lona, T.A. Duever and A. Penlidis
Macrom. Theory and Simul., Acc., 10/03
- 03/016 **Derivation of the distributions of long chain branching, molecular weight, seniority, and priority for polyolefins made with two metallocene catalysts**
D.J. Read and J.B.P. Soares
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- 03/017 **Synthesis of arborescent polystyrene-graft-polyisoprene copolymers using acetylated substrates**
J.Li, M. Gauthier, S.J. Teertstra, H. Zu and S.S. Sheiko
Macromolecules, Acc., 12/03
- 03/018 **Polyolefins with long chain branches made with single-site coordination catalysts: a review of mathematical modelling techniques for polymer microstructure**
J.B.P. Soares
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- 02/001 **A "Round-Robin" experiment in high-temperature gel-permeation chromatography**
L. D'Agnillo, J.B.P. Soares, A. Penlidis
J. Polym. Sci., Polym. Phys., Acc. 02/02
- 02/002 **Copolymers of 3,5 dimethylphenyl methacrylate and methyl methacrylate: synthesis, characterization and determination of reactivity ratios**
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J. Macromol. Sci., Pure and Appl. Chem., Acc. 02/02
- 02/003 **The rigid interior of styrene-maleic anhydride copolymer aggregates probed by fluorescence spectroscopy**
J. Claracq, S.F.C.R. Santos, J. Duhamel, C. Dumousseaux, J-M Corpart
Langmuir, Acc. 03/02
- 02/004 **Reactive extrusion of polypropylene with supercritical carbon dioxide: free radical grafting of maleic anhydride**
B.M. Dorscht and C. Tzoganakis
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- 02/005 **Arborescent polystyrene-graft-poly(2-vinylpyridine) copolymers: synthesis and enhanced polyelectrolyte effect in solution**
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- 02/006 **Sulfobetaine Zwitterionomers based on *n*-butyl acrylate and 2-ethoxyethyl acrylate: physical properties**
M. Gauthier, T. Carrozzella, G. Snell
J. Poly. Sci., Poly. Phys. Ed., Acc 06/02
- 02/007 **Process Modelling and Optimization of Styrene Polymerization**
J. Gao, K.D. Hungenberg and A. Penlidis
"Modern Styrenic Polymers" (Wiley; ed. John Schiers and Duane Priddy), Acc 02/02
- 02/008 **Method for synthesis of graft polymers**
M. Gauthier, J. Li, S.R. Parent, S.J. Teertstra
US Patent no. 6,407,169 B1, dated June 18, 2002
- 02/009 **Bulk and solution copolymerization of butyl acrylate/methyl methacrylate at elevated temperatures**
M.A. Dubé, M. Hakim, N.T. McManus, A. Penlidis
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- 02/010 **Copolymers of 3,5-Dimethylphenyl acrylate and methyl methacrylate: synthesis, characterization and determination of reactivity ratios**
P.S. Vijayanand, S. Radhakrishnan, A. Penlidis, S. Nanjundan
Polymer International Journal, Acc: 08/02
- 02/011 **Comparative trends of copolymerizations involving alpha methyl styrene at**

elevated temperatures

N.T. McManus, L.M.F. Lona, A. Penlidis
Polym. React. Eng. J., Acc: 08/02

- 02/012 **Modelling of free radical polymerization of ethylene using difunctional initiators**
R. Dhib, N. Al-Nidawy
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- 02/013 **Reactive extrusion of polypropylene with supercritical carbon dioxide: free radical grafting of maleic anhydride**
B.M. Dorscht and C. Tzoganakis
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- 02/014 **Rheological properties of polystyrene/supercritical CO₂ solutions from an extrusion slit die**
A. Xue and C. Tzoganakis
J. Polym. Eng., Acc: 09/02
- 02/015 **Characterization and modeling of metallocene-based branch-block copolymers**
A.H. Dekmezian, J.B.P. Soares, P. Jiang, C.A. Garcia-Franco, W. Weng, H. Fruitwala, T.Sun and D.M. Sarzotti
Macromolecules, Acc: 09/02
- 02/016 **Improvement in techniques for the determination of extensional rheological data from entrance flows: computations and experimental analysis**
M. Zatloukal, J. Vlček, C. Tzoganakis, P. Sába
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- 02/017 **Long chain branching with metallocene catalysts: Is a purely kinetic mechanism for terminal branching sufficient?**
M. Nele and J.B.P. Soares
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- 02/018 **Ethylene/1-hexene copolymers synthesized with a single-site catalyst: Crystaf analysis, modeling and reactivity ratio estimation**
D.M. Sarzotti, J.B.P. Soares, A. Penlidis
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- 02/019 **HDPE/LLDPE reactor blends with bimodal microstructures—Part I: mechanical properties**
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- 02/021 **Ethylene/1-octene copolymerization studies with in-situ supported metallocene catalysts: effect of polymerization parameters on catalyst activity and polymer microstructure**
C. Li Pi Shan, J.B.P. Soares, A. Penlidis
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- 02/022 **Surface characteristics of hydrosilylated polypropylene**
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