# Ulrich W Suter

List of Publications by Year
in descending order



| 205 | 13,021 | 16451 64 | 26613 107 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 209 | 209 | 209 | 8340 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Detailed molecular structure of a vinyl polymer glass. Macromolecules, 1985, 18, 1467-1478. | 4.8 | 830 |
| 2 | Glossary of basic terms in polymer science (IUPAC Recommendations 1996). Pure and Applied Chemistry, 1996, 68, 2287-2311. | 1.9 | 550 |
| 3 | Atomistic modeling of mechanical properties of polymeric glasses. Macromolecules, 1986, 19, 139-154. | 4.8 | 512 |
| 4 | Shape of unperturbed linear polymers: polypropylene. Macromolecules, 1985, 18, 1206-1214. | 4.8 | 401 |
| 5 | Simulation of polyethylene above and below the melting point. Journal of Chemical Physics, 1992, 96, 2395-2403. | 3.0 | 359 |
| 6 | Bridging the Gap Between Atomistic and Coarse-Grained Models of Polymers: Status and Perspectives. Advances in Polymer Science, 2000, , 41-156. | 0.8 | 336 |
| 7 | Polyurethane Adhesive Nanocomposites as Gas Permeation Barrier. Macromolecules, 2003, 36, 9851-9858. | 4.8 | 290 |
| 8 | Fluctuation formula for elastic constants. Physical Review B, 1996, 54, 1-4. | 3.2 | 250 |
| 9 | Dynamics of small molecules in dense polymers subject to thermal motion. Journal of Chemical Physics, 1993, 99, 2228-2234. | 3.0 | 219 |
| 10 | Simulation of phase equilibria for chain molecules. Journal of Chemical Physics, 1992, 97, 2817-2819. | 3.0 | 213 |
| 11 | Estimation of the chemical potential of chain molecules by simulation. Journal of Chemical Physics, 1992, 96, 6157-6162. | 3.0 | 213 |
| 12 | Atomic Charges for Classical Simulations of Polar Systems. Journal of Physical Chemistry B, 2004, 108, 18341-18352. | 2.6 | 204 |
| 13 | Conformational Energy and Configurational Statistics of Polypropylene. Macromolecules, 1975, 8, 765-776. | 4.8 | 200 |
| 14 | Tensile properties of polyethylene-layered silicate nanocomposites. Polymer, 2005, 46, 1653-1660. | 3.8 | 175 |
| 15 | Structure and Phase Transitions of Alkyl Chains on Mica. Journal of the American Chemical Society, 2003, 125, 9500-9510. | 13.7 | 164 |
| 16 | Dynamics of light gases in rigid matrices of dense polymers. Journal of Chemical Physics, 1993, 99, 2221-2227. | 3.0 | 157 |
| 17 | Epoxy-Layered Silicate Nanocomposites and Their Gas Permeation Properties. Macromolecules, 2004, 37, 7250-7257. | 4.8 | 156 |
| 18 | Two-dimensional solid-state NMR studies of ultraslow chain motion: glass transition in atactic poly(propylene) versus helical jumps in isotactic poly(propylene). Macromolecules, 1990, 23, 3431-3439. | 4.8 | 152 |

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| 19 | Syndiotactic Poly(1-oxo-2-phenyltrimethylene): On the Mode of the Chain Growth under Palladium Catalysis. Angewandte Chemie International Edition in English, 1991, 30, 989-991. | 4.4 | 151 |
| 20 | Surface Treatment of Calcite with Fatty Acids:â€‰ Structure and Properties of the Organic Monolayer. Chemistry of Materials, 2002, 14, 4408-4415. | 6.7 | 143 |
| 21 | In vivo performance of a new biodegradable polyester urethane system used as a nerve guidance channel. Biomaterials, 1998, 19, 2155-2165. | 11.4 | 136 |
| 22 | Macrocyclization equilibriums. 1. Theory. Journal of the American Chemical Society, 1976, 98, 5733-5739. | 13.7 | 135 |
| 23 | Influence of excessive filler coating on the tensile properties of LDPEâ€“calcium carbonate composites. Polymer, 2004, 45, 1177-1183. | 3.8 | 134 |
| 24 | Protein partitioning in two-phase aqueous polymer systems. Biotechnology and Bioengineering, 1989, 34, 541-558. | 3.3 | 130 |
| 25 | Size Variation of PbS Particles in High-Refractive-Index Nanocomposites. The Journal of Physical Chemistry, 1994, 98, 8992-8997. | 2.9 | 127 |
| 26 | Atomistic modelling of plastic deformation of glassy polymers. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 931-978. | 0.6 | 125 |
| 27 | On the construction of coarseâ€grained models for linear flexible polymer chains: Distribution functions for groups of consecutive monomers. Journal of Chemical Physics, 1991, 95, 6014-6025. | 3.0 | 115 |
| 28 | Local structure and the mechanism of response to elastic deformation in a glassy polymer. Macromolecules, 1986, 19, 379-387. | 4.8 | 111 |
| 29 | Donorâ^'Acceptor-Substituted Phenylethenyl Bithiophenes:Â Highly Efficient and Stable Nonlinear Optical Chromophores. Organic Letters, 1999, 1, 1847-1849. | 4.6 | 109 |
| 30 | Regio-, Stereo-, and Enantioselective Alternating Copolymerization of Propene with Carbon Monoxide. Macromolecules, 1994, 27, 4436-4440. | 4.8 | 107 |
| 31 | Telechelic diols from poly[(R)-3-hydroxybutyric acid] and poly{[(R)-3-hydroxybutyric acid]-co-[(R)-3-hydroxyvaleric acid]}. Macromolecular Chemistry and Physics, 1996, 197, 1609-1614. | 2.2 | 107 |
| 32 | Redox-Active Self-Assembled Monolayers for Solid-Contact Polymeric Membrane Ion-Selective Electrodes. Chemistry of Materials, 2002, 14, 1721-1729. | 6.7 | 106 |
| 33 | High refractive index films of polymer nanocomposites. Journal of Materials Research, 1993, 8, 1742-1748. | 2.6 | 105 |
| 34 | Stereochemistry of alternating copolymers of vinyl olefins with carbon monoxide. Macromolecules, 1992, 25, 3604-3606. | 4.8 | 101 |
| 35 | Reinforcement of poly(dimethylsiloxane) networks by mica flakes. Polymer, 2001, 42, 6545-6556. | 3.8 | 100 |
| 36 | Polymerization of Styrene with Initiator Ionically Bound to High Surface Area Mica: Grafting via an Unexpected Mechanism. Macromolecules, 1994, 27, 1637-1642. | 4.8 | 98 |

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| 37 | New versatile, elastomeric, degradable polymeric materials for medicine. International Journal of Biological Macromolecules, 1999, 25, 293-301. | 7.5 | 96 |
| 38 | Structure and Molecular Dynamics of Alkane Monolayers Self-Assembled on Mica Platelets. Journal of Physical Chemistry B, 2002, 106, 653-662. | 2.6 | 94 |
| 39 | Effect of non-ionic surfactants on the exfoliation and properties of polyethylene-layered silicate nanocomposites. Polymer, 2005, 46, 8202-8209. | 3.8 | 93 |
| 40 | Surface treatment of clay minerals ? thermal stability, basal-plane spacing and surface coverage. Journal of Materials Chemistry, 2003, 13, 2359. | 6.7 | 90 |
| 41 | Simulation of elastic and plastic response in the glassy polycarbonate of 4,4'-isopropylidenediphenol. Macromolecules, 1993, 26, 1097-1108. | 4.8 | 88 |
| 42 | Tissue-compatible multiblock copolymers for medical applications, controllable in degradation rate and mechanical properties. Macromolecular Chemistry and Physics, 1998, 199, 2785-2796. | 2.2 | 86 |
| 43 | Geometrical considerations in model systems with periodic boundaries. Journal of Chemical Physics, 1985, 82, 955-966. | 3.0 | 83 |
| 44 | Equilibrium partitioning of flexible macromolecules between bulk solution and cylindrical pores. Macromolecules, 1987, 20, 1141-1146. | 4.8 | 80 |
| 45 | Regioselectivity Control in the Palladium-Catalyzed Copolymerization of Propylene with Carbon Monoxide. Angewandte Chemie International Edition in English, 1992, 31, 303-305. | 4.4 | 80 |
| 46 | Continuum-configurational-bias Monte Carlo simulations of long-chain alkanes. Molecular Physics, 1993, 80, 55-63. | 1.7 | 78 |
| 47 | Conformational Characteristics of Poly(methyl acrylate). Macromolecules, 1975, 8, 784-789. | 4.8 | 77 |
| 48 | Thermodynamics of the separation of biomaterials in two-phase aqueous polymer systems: effect of the phase-forming polymers. Macromolecules, 1987, 20, 1300-1311. | 4.8 | 77 |
| 49 | Accelerated equilibration of polymer melts by timeâ€coarseâ€graining. Journal of Chemical Physics, 1995, 102, 7256-7266. | 3.0 | 77 |
| 50 | Synthesis of degradable, biocompatible, and tough block-copolyesterurethanes. Macromolecular Chemistry and Physics, 1996, 197, 4253-4268. | 2.2 | 77 |
| 51 | Surface Structure of Organoclays. Angewandte Chemie - International Edition, 2004, 43, 2239-2243. | 13.8 | 76 |
| 52 | Quasi-static modeling of chain dynamics in the amorphous glassy polycarbonate of 4,4'-isopropylidenediphenol. Macromolecules, 1991, 24, 5970-5979. | 4.8 | 74 |
| 53 | Non-linear, rate-dependent strain-hardening behavior of polymer glasses. Polymer, 2005, 46, 11786-11797. | 3.8 | 72 |
| 54 | Space available to small diffusants in polymeric glasses: Analysis of unoccupied space and its connectivity. Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 415-426. | 2.1 | 71 |

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| 55 | Two-Dimensional Melting of Alkane Monolayers Ionically Bonded to Mica. Journal of Physical Chemistry B, 2000, 104, 4433-4439. | 2.6 | 71 |
| 56 | Some aspects of stereoregulation in the stereospecific polymerization of vinyl monomersâ˜†. Polymer, 1976, 17, 977-995. | 3.8 | 70 |
| 57 | An atomistic model of the amorphous glassy polycarbonate of 4,4-isopropylidenediphenol. Macromolecules, 1991, 24, 5962-5969. | 4.8 | 70 |
| 58 | Poly(propylene)-Layered Silicate Nanocomposites: Gas Permeation Properties and Clay Exfoliation. Macromolecular Chemistry and Physics, 2007, 208, 68-75. | 2.2 | 70 |
| 59 | A statistical mechanics based lattice model equation of state. Industrial & Engineering Chemistry Research, 1987, 26, 2532-2542. | 3.7 | 68 |
| 60 | Phase diagrams of nonideal fluid mixtures from Monte Carlo simulation. Industrial & Engineering Chemistry Fundamentals, 1986, 25, 525-535. | 0.7 | 66 |
| 61 | A New Model Describing the Cocrystallization Behavior of Random Copolymers. Macromolecules, 1998, 31, 2516-2520. | 4.8 | 66 |
| 62 | Hydroxy-telechelic copolyesters with well defined sequence structure through ring-opening polymerization. Macromolecular Chemistry and Physics, 2000, 201, 1067-1076. | 2.2 | 66 |
| 63 | Preparation of polymer nanocomposites with â€œultrahighâ€•refractive index. Polymers for Advanced Technologies, 1991, 2, 75-80. | 3.2 | 64 |
| 64 | Polymer nanocomposites with â€œultralowâ€•refractive index. Polymers for Advanced Technologies, 1993, 4, 1-7. | 3.2 | 64 |
| 65 | Polytriacetylenes: Conjugated polymers with a novel all-carbon backbone. Advanced Materials, 1994, 6, 786-790. | 21.0 | 64 |
| 66 | Polymer sheets with a thin nanocomposite layer acting as a UV filter. Polymers for Advanced Technologies, 1997, 8, 505-512. | 3.2 | 64 |
| 67 | Static atomistic modelling of the structure and ring dynamics of bulk amorphous polystyrene. Macromolecular Theory and Simulations, 1994, 3, 19-43. | 1.4 | 57 |
| 68 | Determination of the Cation-Exchange Capacity of Muscovite Mica. Journal of Colloid and Interface Science, 2000, 224, 112-115. | 9.4 | 56 |
| 69 | Thermotropic behaviour of covalent fullerene adducts displaying 4-cyano-4â€²-oxybiphenyl mesogens. Perkin Transactions II RSC, 2000, , 193-198. | 1.1 | 56 |
| 70 | Conformational characteristics of the polycarbonate of 4,4'-isopropylidenediphenol. Macromolecules, 1991, 24, 5956-5961. | 4.8 | 55 |
| 71 | RF-driven and proton-driven NMR polarization transfer for investigating local order. Molecular Physics, 1995, 84, 995-1020. | 1.7 | 55 |
| 72 | Hydrolytic Degradation of Phase-Segregated Multiblock Copoly(ester urethane)s Containing Weak Links. Macromolecular Chemistry and Physics, 2001, 202, 2702-2711. | 2.2 | 55 |

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| 73 | Conformational characteristics of polystyrene. Macromolecular Theory and Simulations, 1994, 3, 1-17. | 1.4 | 54 |
| 74 | Macrocyclization equilibriums. 2. Poly(dimethylsiloxane). Journal of the American Chemical Society, 1976, 98, 5740-5745. | 13.7 | 53 |
| 75 | Theory for solubility in static systems. Physical Review A, 1991, 43, 6488-6494. | 2.5 | 53 |
| 76 | Atomistically Modeling the Chemical Potential of Small Molecules in Dense Polymer Microstructures. 2. Water Sorption by Polyamides. Macromolecules, 1997, 30, 6114-6119. | 4.8 | 53 |
| 77 | Versatile Method for Chemical Reactions with Self-Assembled Monolayers of Alkanethiols on Gold. Langmuir, 2001, 17, 3643-3650. | 3.5 | 53 |
| 78 | Macrocyclization equilibriums. 3. Poly(6-aminocaproamide). Journal of the American Chemical Society, 1976, 98, 5745-5748. | 13.7 | 52 |
| 79 | Hybrid Monte Carlo simulations of dense polymer systems. Journal of Chemical Physics, 1994, 101, 2616-2629. | 3.0 | 52 |
| 80 | Does the strain hardening modulus of glassy polymers scale with the flow stress?. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2475-2481. | 2.1 | 51 |
| 81 | Detailed atomistic simulation of oriented pseudocrystalline polymers and application to a stiff-chain aramid. Macromolecules, 1991, 24, 1921-1933. | 4.8 | 50 |
| 82 | The atomic strain tensor. Journal of Computational Physics, 1992, 101, 140-150. | 3.8 | 50 |
| 83 | Polymerization of Styrene with Peroxide Initiator Ionically Bound to High Surface Area Mica. Macromolecules, 1999, 32, 3590-3597. | 4.8 | 50 |
| 84 | Conformational characteristics of polyisobutylene. Macromolecules, 1983, 16, 1317-1328. | 4.8 | 49 |
| 85 | Solubility of polystyrene in supercritical fluids. Macromolecules, 1987, 20, 2550-2557. | 4.8 | 49 |
| 86 | Calculation of mechanical properties of poly(p-phenylene terephthalamide) by atomistic modelling. Polymer, 1991, 32, 2179-2189. | 3.8 | 49 |
| 87 | New Polyamides with Large Second-Order Nonlinear Optical Properties. Macromolecules, 1994, 27, 2181-2186. | 4.8 | 48 |
| 88 | Monte Carlo algorithms for the atomistic simulation of condensed polymer phases. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2355. | 1.7 | 48 |
| 89 | Atomistically Modeling the Chemical Potential of Small Molecules in Dense Polymer Microstructures. 1. Method. Macromolecules, 1997, 30, 6107-6113. | 4.8 | 47 |
| 90 | Relationship between Helium Transport and Molecular Motions in a Glassy Polycarbonate. Macromolecules, 1995, 28, 2582-2584. | 4.8 | 46 |

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| 91 | Alkali Metals Ion Exchange on Muscovite Mica. Journal of Colloid and Interface Science, 1999, 209, 232-239. | 9.4 | 46 |
| 92 | Synthesis and characterization of liquid platinum compounds. Inorganica Chimica Acta, 2000, 299, 199-208. | 2.4 | 41 |
| 93 | Optical anisotropy of polystyrene and its low molecular analogues. Journal of the Chemical Society, Faraday Transactions 2, 1977, 73, 1521. | 1.1 | 39 |
| 94 | Ion Exchange on Muscovite Mica with Ultrahigh Specific Surface Area. Journal of Colloid and Interface Science, 1993, 157, 318-327. | 9.4 | 39 |
| 95 | Adsorption of Polymeric Inclusion Compounds on Muscovite Mica. Macromolecules, 1996, 29, 718-723. | 4.8 | 39 |
| 96 | Predicting the Cocrystallization Behavior of Random Copolymers via Free Energy Calculations. Macromolecules, 1998, 31, 2509-2515. | 4.8 | 39 |
| 97 | Conformational characteristics of poly(methyl vinyl ketone)s and of simple model ketones. Journal of the American Chemical Society, 1979, 101, 6481-6496. | 13.7 | 38 |
| 98 | Thermodynamics of the partitioning of biomaterials in two-phase aqueous polymer systems: comparison of lattice model to experimental data. The Journal of Physical Chemistry, 1989, 93, 2111-2122. | 2.9 | 38 |
| 99 | Control of Structural Isomerism in Polyamides. Macromolecules, 1978, 11, 624-626. | 4.8 | 36 |
| 100 | The Mechanism of Spectral Shift and Inhomogeneous Broadening of an Aromatic Chromophore in a Polymer Glass. Journal of the American Chemical Society, 1995, 117, 7493-7507. | 13.7 | 36 |
| 101 | Syndiotaktisches Poly(1â€oxoâ€2â€phenyltrimethylen): zum Mechanismus der Palladiumâ€katalysierten Polymerisation. Angewandte Chemie, 1991, 103, 992-994. | 2.0 | 35 |
| 102 | Surface-textured PEG-based hydrogels with adjustable elasticity: Synthesis and characterization. Biomaterials, 2007, 28, 567-575. | 11.4 | 35 |
| 103 | Epimerization of vinyl polymers to stereochemical equilibrium. 2. Polypropylene. Macromolecules, 1981, 14, 528-532. | 4.8 | 34 |
| 104 | Rigid-rod fully aromatic polyamides with controlled constitution: synthesis and some properties. Macromolecules, 1991, 24, 642-647. | 4.8 | 33 |
| 105 | Adsorption of alkanenitriles and alkanedinitriles on gold and copper. Langmuir, 1992, 8, 2771-2777. | 3.5 | 33 |
| 106 | Epimerization of vinyl polymers to stereochemical equilibrium. 1. Theory. Macromolecules, 1981, 14, 523-528. | 4.8 | 32 |
| 107 | Structural isomerism in polycondensates. 2. Aspects for monomers with independent functional groups. Macromolecules, 1984, 17, 2248-2255. | 4.8 | 32 |
| 108 | Solid-State NMR Investigation of the Structural Consequences of Plastic Deformation in Polycarbonate. 1. Global Orientational Order. Macromolecules, 1999, 32, 6191-6205. | 4.8 | 32 |

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| 109 | Solubility of water in polymersâ€"atomistic simulations. Computational and Theoretical Polymer Science, 2001, 11, 49-55. | 1.1 | 32 |
| 110 | Reinforcement of poly(dimethylsiloxane) networks by montmorillonite platelets. Journal of Applied Polymer Science, 2002, 83, 2175-2183. | 2.6 | 32 |
| 111 | Fractionation of polymers with supercritical fluids. Fluid Phase Equilibria, 1986, 29, 373-382. | 2.5 | 31 |
| 112 | Macrocyclization equilibria in polycycloolefins. Die Makromolekulare Chemie, 1988, 189, 1603-1612. | 1.1 | 31 |
| 113 | Strainâ€hardening modulus of crossâ€linked glassy poly(methyl methacrylate). Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1464-1472. | 2.1 | 31 |
| 114 | Analysis of the phase transitions in alkyl-mica by density and pressure profiles. Journal of Chemical Physics, 2004, 120, 3847-3854. | 3.0 | 30 |
| 115 | Influence of platelet aspect ratio and orientation on the storage and loss moduli of HDPE-mica composites. Polymer, 2005, 46, 523-530. | 3.8 | 30 |
| 116 | RegioselektivitÃtskontrolle bei der Palladiumâ€katalysierten Copolymerisation von Propen mit Kohlenmonoxid. Angewandte Chemie, 1992, 104, 306-307. | 2.0 | 29 |
| 117 | Continuum configurational bias Monte-Carlo studies of alkanes and polyethylene. Fluid Phase Equilibria, 1993, 83, 323-331. | 2.5 | 29 |
| 118 | Orientational Relaxation in Electric-Field-Poled Films from Main-Chain Nonlinear Optical Polyamides. Macromolecules, 1995, 28, 2377-2382. | 4.8 | 28 |
| 119 | High Refractive Index Materials of Iron Sulfides and Poly(ethylene oxide). Journal of Materials Research, 1997, 12, 2198-2206. | 2.6 | 27 |
| 120 | Adsorption of triphenylamine, triphenylphosphine, triphenylarsine, triphenylstibine, and triphenylbismuthine on gold and copper. Langmuir, 1992, 8, 90-94. | 3.5 | 26 |
| 121 | A model for transport of diatomic molecules through elastic solids. Journal of Computer-Aided Materials Design, 1993, 1, 63-73. | 0.7 | 26 |
| 122 | Electro-Optical Properties of Waveguides Based on a Main-Chain Nonlinear Optical Polyamide. Macromolecules, 1997, 30, 3256-3261. | 4.8 | 26 |
| 123 | H+/Li+and H+/K+Exchange on Delaminated Muscovite Mica. Journal of Colloid and Interface Science, 1998, 198, 157-163. | 9.4 | 26 |
| 124 | Ultrathin layers of low- and high-molecular-weight imides on gold and copper. Langmuir, 1993, 9, 3245-3254. | 3.5 | 25 |
| 125 | Elasticity of solid polymers as a result of thermal motions. Macromolecules, 1994, 27, 615-616. | 4.8 | 25 |
| 126 | Graft Polymerization of Styrene on Mica:Â Formation and Behavior of Molecular Droplets and Thin Films. Langmuir, 1999, 15, 6940-6945. | 3.5 | 25 |

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| 127 | Processable Fully Aromatic Quinoline-Based Polymers. Macromolecules, 2001, 34, 3607-3614. | 4.8 | 25 |
| 128 | Syntheses and X-Ray Structures for Model Compounds of a Pyrimidinediyl-Based Rigid-Rod Aromatic Polyamide. Helvetica Chimica Acta, 1992, 75, 184-189. | 1.6 | 22 |
| 129 | Main-Chain Nonlinear Optical Polymers with Enhanced Orientational Stability. Macromolecules, 1998, 31, 7676-7681. | 4.8 | 22 |
| 130 | Segmental orientation in plastically deformed glassy PMMA. Journal of the Mechanics and Physics of Solids, 2006, 54, 589-610. | 4.8 | 22 |
| 131 | Reaction of Long-Chain Iodoalkanes with Gold Surfaces. Journal of Colloid and Interface Science, 1998, 202, 167-172. | 9.4 | 21 |
| 132 | Simple and Accurate Computations of Solvatochromic Shifts in Ï€ â†' Ï€* Transitions of Aromatic Chromophores. Journal of the American Chemical Society, 2001, 123, 11229-11236. | 13.7 | 21 |
| 133 | Optical anisotropies of para-halogenated polystyrenes and related molecules. Journal of the Chemical Society, Faraday Transactions 2, 1977, 73, 1538. | 1.1 | 20 |
| 134 | Modification of SiO2Surfaces by Reaction with Acetals, Ketals, Orthoesters, and Orthocarbonates. Journal of Colloid and Interface Science, 1997, 191, 209-215. | 9.4 | 20 |
| 135 | Relaxation Processes in Nonlinear Optical Polymers:â€‰ A Comparative Study. Macromolecules, 1998, 31, 1947-1957. | 4.8 | 20 |
| 136 | Dodecyl Pyridinium/Alkali Metals Ion Exchange on Muscovite Mica. Journal of Colloid and Interface Science, 1999, 214, 400-406. | 9.4 | 20 |
| 137 | Hepatic artery embolisation with a novel radiopaque polymer causes extended liver necrosis in pigs due to occlusion of the concomitant portal vein. Journal of Hepatology, 2000, 32, 261-268. | 3.7 | 20 |
| 138 | Polymer Nanocomposites Containing Superstructures of Self-Organized Platinum Colloids. Journal of Physical Chemistry B, 2001, 105, 7399-7404. | 2.6 | 20 |
| 139 | Conformational characteristics of poly(vinyl alcohol). Macromolecules, 1984, 17, 669-677. | 4.8 | 19 |
| 140 | Solid-State NMR Investigation of the Structural Consequences of Plastic Deformation in Polycarbonate. 2. Local Orientational Order. Macromolecules, 2000, 33, 6808-6814. | 4.8 | 18 |
| 141 | Self-Assembled Layers of Substituted Poly(p-phenylene)s on Gold and Copper Investigated by Soft X-ray Spectroscopy. Langmuir, 1996, 12, 719-725. | 3.5 | 17 |
| 142 | Ion Exchange of Cation-Terminated Poly(ethylene oxide) Chains on Mica Surfaces. Journal of Colloid and Interface Science, 1997, 189, 283-287. | 9.4 | 16 |
| 143 | Structural isomerism in polycondensates. 3. Isomeric polyureas from aromatic carbonates and nonsymmetric diamines. Macromolecules, 1985, 18, 823-825. | 4.8 | 15 |
| 144 | Affinity partitioning in two-phase aqueous polymer systems: a simple model for the distribution of the polymer-ligand tail segments near the surface of a particle. The Journal of Physical Chemistry, 1989, 93, 969-976. | 2.9 | 15 |

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| 147 | Normal and defective perylene substitution sites in alkane crystals. Journal of Chemical Physics, 2001, 114, 3224-3235. | 3.0 | 15 |
| 148 | Thermally crosslinked rigidâ€¦rod aramids, 1. Synthesis of a new monomer and its polymerization. Macromolecular Chemistry and Physics, 1994, 195, 511-524. | 2.2 | 14 |
| 149 | Strongly attached ultrathin polymer layers on metal surfaces obtained by activation of Siâ€“H bonds. Applied Surface Science, 1999, 143, 256-264. | 6.1 | 14 |
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| 151 | A dynamic Monte Carlo method suitable for molecular simulations. Journal of Chemical Physics, 1992, 96, 5383-5388. | 3.0 | 13 |
| 152 | Thermally crosslinked rigid-rod aramids, 2. Fiber spinning and fiber properties. Macromolecular Chemistry and Physics, 1994, 195, 525-537. | 2.2 | 13 |
| 153 | Self-Assembled Layers of Substituted Poly(p-phenylene)s on Gold and Copper. Langmuir, 1994, 10, 1164-1170. | 3.5 | 13 |
| 154 | Conformational characteristics of poly(1-alkenes). Flexible side groups and the limits of simple rotational isomeric state models. Macromolecules, 1985, 18, 403-411. | 4.8 | 12 |
| 155 | Monte Carlo methodologies for enhanced configurational sampling of dense systems: motion of a spherical solute in a polymer melt as a model problem. Molecular Physics, 1994, 83, 489-518. | 1.7 | 12 |
| 156 | Optimized atomic Lennardâ€Jones 6â€“12 parameters for simulating pVT properties of a realistic polymethylene melt. Journal of Chemical Physics, 1995, 102, 5761-5769. | 3.0 | 12 |
| 157 | Self-Assembled Layers of an Aromatic Poly(ketone) and Poly(benzil) on Gold and Copper. Langmuir, 1995, 11, 3013-3017. | 3.5 | 12 |
| 158 | Modification of SiO2Surfaces by Reaction with Trialkoxymethanes and Triphenoxymethane. Langmuir, 1996, 12, 4391-4394. | 3.5 | 12 |
| 159 | Determination of Orientational Anisotropy in Glassy Solids by 2D Dipolar Spectra With Sample Flipping. Journal of Magnetic Resonance, 1997, 128, 217-227. | 2.1 | 12 |
| 160 | Synthesis and Characterization of New Photorefractive Polymers with High Glass Transition Temperatures. Macromolecules, 1998, 31, 6184-6189. | 4.8 | 12 |
| 161 | Gas permeation properties of polyethylene-layered silicate nanocomposites. Journal of Materials Chemistry, 2005, , . | 6.7 | 12 |
| 162 | Dipole moments and conformational analysis of copolymers of ethylene and carbon monoxide. Macromolecules, 1988, 21, 1262-1269. | 4.8 | 11 |

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| 163 | Morphology of a Self-Assembled Monolayer of a Polymer. Macromolecules, 1994, 27, 1983-1984. | 4.8 | 11 |
| 164 | Orientation of Molecular Segments by Plastic Deformation of Glassy Polycarbonate. Macromolecules, 1996, 29, 2909-2915. | 4.8 | 11 |
| 165 | Influence of the Ring Size on the Behavior of Polymeric Inclusion Compounds at Mica Surfaces. Langmuir, 2000, 16, 5311-5316. | 3.5 | 11 |
| 166 | Conformational characteristics of polyisobutylene: an error with consequences. Macromolecules, 1987, 20, 1424-1425. | 4.8 | 10 |
| 167 | Constitutional Regularity in Linear Condensation Polymers. , 1989, , 97-115. | | 10 |
| 168 | Structural Characterization of Polycarbonates for Membrane Applications by Atomic Level Simulation. Industrial & Engineering Chemistry Research, 1995, 34, 4193-4201. | 3.7 | 10 |
| 169 | Ultrathin Layers of Substituted Poly(styrene)s on Gold and Copper. Langmuir, 1998, 14, 347-351. | 3.5 | 10 |
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