

2007

## List of Publications

Otto Vogl

*University of Massachusetts - Amherst*, vogl@polysci.umass.edu

Follow this and additional works at: [https://scholarworks.umass.edu/emeritus\\_sw](https://scholarworks.umass.edu/emeritus_sw)

---

Vogl, Otto, "List of Publications" (2007). *Emeritus Faculty Author Gallery*. 253.  
Retrieved from [https://scholarworks.umass.edu/emeritus\\_sw/253](https://scholarworks.umass.edu/emeritus_sw/253)

This is brought to you for free and open access by ScholarWorks@UMass Amherst. It has been accepted for inclusion in Emeritus Faculty Author Gallery by an authorized administrator of ScholarWorks@UMass Amherst. For more information, please contact [scholarworks@library.umass.edu](mailto:scholarworks@library.umass.edu).

## Otto Vogl Publications 1948-2004

1. Thesis, Highly Unsaturated Sterinalcohols (1949).
2. F. Galinovsky and O. Vogl, Chromatographic Separation of Epimeric Steroid Alcohols, *Monatshefte Chem.*, 79, 325 (1948).
3. F. Galinovsky, O. Vogl and R. Weiser, Synthesis of 2-Piperidine Propionaldehyde: The Structure of Pelletierine, *Monatshefte Chem.*, 83, 114 (1952).
4. F. Galinovsky, O. Vogl and W. Moroz, Synthesis of Tetrahydrodesoxycytisine, *Monatshefte Chem.*, 83, 242 (1952).
5. O. Vogl and M. Poehm, Reduction of Amino Acids to Amino Alcohols with Lithium Aluminum Hydride, *Monatshefte Chem.*, 83, 541 (1952).
6. F. Galinovsky and O. Vogl, The Alkaloids of Pomegranate Bark, *Monatshefte Chem.*, 83, 1055 (1952).
7. K. Eiter, H. Michl and O. Vogl, Ultrasonic Precipitation of Cobalt Sulfide and Nickel Sulfide, *Monatshefte Chem.*, 83, 1208 (1952).
8. F. Galinovsky and O. Vogl, The Alkaloids of *Cytisus Laburnum*, Abstracts of Papers, 125th. ACS Meeting, Kansas City, 32N (1954).
9. F. Galinovsky, O. Vogl and H. Nesvadba, A New Alkaloid of *Cytisus Laburnum*, *Scientia. Pharm.* 21, 256 (1953).
10. O. Vogl and M. Poehm, Reduction of Amino Acids to Amino Alcohols with Lithium Aluminum Hydride. II. *Monatshefte Chem.* 84, 1097 (1953).
11. F. Galinovsky, G. Bianchetti and O. Vogl, Racemization of Isopelletierine and Methylisopelletierine, *Monatsh.* 84, 1221 (1953).
12. F. Galinovsky, O. Vogl and H. Nesvadba, The Structure of Laburnine, *Monatshefte Chem.*, 85, 913 (1954).
13. F. Galinovsky, O. Vogl and W. Moroz, Synthesis of Cytisine: Dehydrogenation of Tetrahydrocytisine to Cytisine, *Monatshefte Chem.*, 85, 1137 (1954).

14. O. Vogl and G. Bianchetti, Pomegranate Bark Alkaloids, Monatshefte Chem., 86, 1024 (1955).
15. Christian S. Rondestvedt Jr. and O. Vogl, Arylation of Unsaturated System by Free Radicals. II. Arylation of Maleimides by Diazonium Salts, J. Am. Chem. Soc., 77, 2313 (1955).
16. O. Vogl and Christian S. Rondestvedt Jr., Arylation of Unsaturated Systems by Free Radicals. III. The Action of Radical Generators Upon Coumarin, J. Am. Chem. Soc., 77, 3067 (1955).
17. Christian S. Rondestvedt Jr. and O. Vogl, Arylation of Unsaturated Systems by Free Radicals. IV. Effects of Catalysts, pH and Solvent upon the Meerwein Reaction, J. Am. Chem. Soc., 77, 3401 (1955).
18. O. Vogl and Christian S. Rondestvedt Jr., Arylation of Unsaturated Systems by Free Radicals. VI. The Meerwein Reaction. IV. The Stereochemistry of the Arylation of Maleic and Fumaric Acid Derivatives, J. Am. Chem. Soc., 78, 3799 (1956).
19. Christian S. Rondestvedt Jr., Max J. Kalm and O. Vogl, Arylation of Unsaturated System by Free Radicals. VII. The Meerwein Reaction V. Further Arylation of Maleimides: Ultraviolet Spectra of Arylmaleimides, Arylmaleic Anhydrides and Arylmaleo- and Fumaronitriles, J. Am. Chem. Soc., 78, 6115 (1956).
20. O. Vogl and E.C. Taylor, A Facile Synthesis of 2-Substituted Adenines, J. Am. Chem. Soc., 79, 1518 (1957).
21. E.C. Taylor, T.S. Osdene, E. Richter and O. Vogl, Some Synthetic Studies on Purines and Related Heterocycles, CIBA Foundation Symposium Chem. and Biol. Purines 1957, 20.
22. Edward C. Taylor, O. Vogl and C.C. Cheng, Studies in Purine Chemistry, II. A Facile Synthesis of 2-Substituted Adenines, J. Am. Chem. Soc., 81, 2442 (1959).
23. O. Vogl and Edward C. Taylor, Pteridines. XXXVIII. A Direct Synthesis of 2-Aminopyrazine-3-carboxamides, J. Am. Chem. Soc., 81, 2472 (1959).
24. Edward C. Taylor, O. Vogl and Paula K. Loeffler, Pteridines. XX, 3-Amino-4 (3H)-pteridone, J. Am. Chem. Soc., 81, 2479 (1959).

25. Edward C. Taylor, C.C. Cheng and O. Vogl, Studies in Purine Chemistry. IV. Hypoxanthine-1-N-oxide, *J. Am. Chem. Soc.* 24, 2019 (1959).
26. O. Vogl, Synthesis of  $\alpha$ -Hydroxyisobutyric Acid from Isobutylene, *J. Org. Chem.*, 23, 1488 (1958).
27. O. Vogl, Polymerization of Higher Aldehydes. I. The Polymerization of Aldehydes, *J. Polym. Sci.*, 46, 261 (1960).
28. O. Vogl, Polymerization of Higher Aldehydes. II. Esters and Ethers of Polyaldehydes, *Chemistry and Industry*, 748 (1961)
29. O. Vogl, Polymerization of Higher Aldehydes, III. Elastomeric Polyacetaldehyde, *J. Polym. Sci., A*, 2, 4591 (1964).
30. O. Vogl, Polymerization of Higher Aldehydes. IV. Crystalline Isotactic Polyaldehydes: Anionic and Cationic Polymerization, *J. Polym. Sci., A*, 2, 4607 (1964).
31. O. Vogl, Polymerization of Higher Aldehydes. V. End-Capped Crystalline Isotactic Polyaldehydes: Characterization and Properties, *J. Polym. Sci., A*, 2, 4621 (1964).
32. O. Vogl and W.M.D. Bryant, Polymerization of Higher Aldehydes. VI. Mechanism of Aldehyde Polymerization, *J. Polym. Sci., A*, 2, 4633 (1964).
33. E.G. Brame, Jr., R.S. Sudol and O. Vogl, Polymerization of Higher Aldehydes, VII. Tacticity of Elastomeric Polyacetaldehyde, *J. Polym. Sci., A* 2, 5337 (1964).
34. O. Vogl, Polymerization of Higher Aldehydes, *Polymer Preprints, ACS Division of Polymer Chemistry*, 5, 1126 (1964).
35. O. Vogl, W.M.D. Bryant, Le Mecanisme de la Polymerization des Aldehydes Plastiques, 2, 224 (1965).
36. O. Vogl, Polymerization of Aliphatic Aldehydes, *Polymer Preprints, ACS Division of Polymer Chemistry*, 7, 216 (1966).
37. E. G. Brame, Jr. and Otto Vogl, NMR Studies on Polyaldehydes, *Polymer Preprints, ACS Division of Polymer Chemistry*, 7, 227 (1966).
38. O. Vogl, B. C. Anderson and D. M. Simons, Synthesis of Hexaoxadamantanes. *Tetrahedron Letters*. 4, 415 (1966).

39. O. Vogl, Polymerization of Higher Aldehydes, *Advances in Chemistry Series*, 52, 67 (1966).
40. O. Vogl, Polyaldehydes: Introduction and Brief History, *J. Macromol. Sci., Chem.*, A1(2), 203 (1967).
41. O. Vogl, Polymerization of Aliphatic Aldehydes (1), *J. Macromol. Sci., Chem.* A1(2), 243 (1967).
42. Edward G. Brame, Jr. and O. Vogl, NMR Studies of Polyaldehydes, *J. Macromol. Sci., Chem.*, A1(2), 277 (1967).
43. O. Vogl, Amorphous Polyacetaldehyde, *Macromol. Synth.*, 3, 71 (1967).
44. O. Vogl, V. Ivansons, H.C. Miller and H.W. Williams, Thermal Degradation Spectrum. Instrumentation to Record Thermogravimetric Results, *J. Macromol. Sci., Chem.*, A2, 175 (1968).
45. O. Vogl and A. C. Knight, Polyoxamides. I. Preparation and Characterization of Cyclic Oxamides, *Macromolecules*, 1, 311 (1968).
46. O. Vogl and A. C. Knight, Polyoxamides. II. Polymerization of Cyclic Diamides, *Macromolecules*, 2, 315 (1968).
47. O. Vogl, Elastomeric Polyacetals, in J. P. Kennedy and E.G.M. Tornqvist, *POLYMER CHEMISTRY OF SYNTHETIC ELASTOMERS BY CATIONIC POLYMERIZATION*, p. 419, Interscience, New York, 1968.
48. O. Vogl, B. C. Anderson and D. M. Simons, Synthesis of Hexaoxadamantanes, *J. Org. Chem.*, 34, 204 (1969).
49. B. C. Anderson, C. L. Hoover and O. Vogl, Polymerization of Internal Olefins, *Macromolecules*, 2, 686 (1969).
50. A. Tsukamoto and O. Vogl, Cationic Polymerization, in A. Jenkins, *PROGRESS IN POLYMER SCIENCE*, Vol. 3, p. 199, Pergamon Press, Oxford, 1971.
51. O. Vogl, Polymerization of Heterocyclics, 23rd. IUPAC Congress on Organic Chemistry and Macromolecular Chemistry, Boston, 1971, p. 92.
52. O. Vogl, H.C. Miller and W.H. Sharkey, Monomer-Cast Chloral Polymers, *Macromolecules*, 5, 658 (1972).

53. O. Vogl, H.C. Miller and W.H. Sharkey, Polychloral by Monomer Casting, *C & E News*, 50, (12), 41 (1972).
54. Otto Vogl, International and Interdisciplinary Cooperation of Polymer Scientists, *Polymer Reaction Series Volume 5 (Japan) 2*, (1972) (T. Saegusa, T. Otsu and T. Higashimura, Eds.).
55. Otto Vogl, Cationic Polymerization of Aldehydes, *Makromol. Chem.*, 175, 1281 (1974).
56. T. Tanaka and O. Vogl, Preparation and Characterization of Head-to-Head Polymers. I. Head-to-Head Poly(Methyl Cinnamate), *Polymer J. (Japan)* 6, 522 (1974).
57. T. Tanaka and O. Vogl, Preparation and Characterization of Head-to-Head Polymers. II. Head-to-Head Poly(Methyl Acrylate), *J. Macromol. Sci., Chem.*, A8(6), 1059 (1974).
58. T. Tanaka and O. Vogl, Preparation and Characterization of Head-to-Head Polymers. III. Head-to-Head Poly(Methyl Crotonate), *J. Macromol. Sci., Chem.*, A8(8), 1299 (1974).
59. P. Kincaid, T. Tanaka and O. Vogl, Head-to-Head Polymers. IV. Pure-Head-to-Head Polymers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 15(2), 222 (1974).
60. T. Suzuki, E. R. Santee Jr., H. James Harwood, O. Vogl and T. Tanaka, Measurement of Tetrad Configurations in Poly(Methyl Acrylate) by 300 MHz Spectroscopy, *J. Polym. Sci.*, B12, 635 (1974).
61. H.J. Chang, D. Stevenson and O. Vogl, Regular Aliphatic Copolyoxamides, *Polymer Preprints, ACS, Division of Polymer Chemistry* 15(2), 417 (1974).
62. D. Stevenson, R. A. Gaudiana and O. Vogl, Regular Aliphatic-Aromatic Polyoxamides, *Polymer Preprints, ACS Division of Polymer Chemistry*, 15(2), 426 (1974).
63. Przemyslaw Kubisa and Otto Vogl, Nowa Metoda Polymerizacji Chloralu w Mastie, *Polimery*, 19, 527 (1974).

64. I. Negulescu and O. Vogl, Higher Aliphatic Polyaldehydes. I. Phase Transitions on Crystalline Higher Aliphatic Polyaldehydes, *J. Polym. Sci.*, B13, 17 (1975).
65. P. Kubisa and O. Vogl, Haloaldehyde Polymers. I. Chain Termination in Anionic Chloral Polymerization, *Polymer J. (Japan)*, 7, 186 (1975).
66. P. Kubisa and O. Vogl, Haloaldehyde Polymers, II. Cationic Polymerization of Chloral, *Vysokomol. Soedin.*, 17, 929 (1975).
67. O. Vogl and K. Hatada, PMR Line Broadening of Small Molecules in the Rigid Polychloral Matrix. IV. Haloaldehyde Polymers. *J. Polym. Sci., Letter Ed.*, 13, 603 (1975).
68. O. Vogl, Review and Future of Ionic Polymerization with Special Emphasis on Carbonyl Polymerization, *J. Macromol. Sci., Chem.*, A9(5), 663 (1975).
69. Otto Vogl, Kinetics of Aldehyde Polymerization, *J. Macromol. Sci., Revs. Macromol. Chem.*, C12(1), 109 (1975).
70. G. E. Sheldrick and O. Vogl, Induced Photodegradation of Styrene Polymers: A Survey, *Polym. Eng. and Sci.*, 16(2), 65 (1976).
71. P. Kubisa, I. Negulescu, K. Hatada, D. Lipp, J. Starr, B. Yamada and O. Vogl, New Developments in Cationic and Anionic Aldehyde Polymerization, *Pure and Applied Chem.*, 48, 275 (1976).
72. Otto Vogl, Future of Polymer Science and Polymer Industry, *Kobunshi*, 25, 826 (1976)
73. D. Bailey and O. Vogl, Polymeric Ultraviolet Absorbers, *J. Macromol. Sci., Macromolecular Reviews*, C14(2), 267 (1976).
74. D. Bailey, D. Tirrell and O. Vogl, Functional Polymers. II. Preparation and Polymerization of Methyl 5-Vinylsalicylate, Methyl 5-Vinylacetylsalicylate, 5-Vinylsalicylic Acid, and 5-Vinylacetylsalicylic Acid, *J. Polym. Sci., Polym. Chem. Ed.*, 14, 2725 (1976).
75. I. Negulescu and O. Vogl, Higher Aliphatic Polyaldehydes. II. Polymer Structure and Polymer Stability of Poly(n-Heptaldehyde), *J. Polym. Sci., Polym. Chem. Ed.*, 14, 2415 (1976).
76. I. Negulescu and O. Vogl, Higher Aliphatic Polyaldehydes. IV. Transitions in Poly-n-Valeraldehyde), Poly (n-Hexaldehyde), Poly(n-Heptaldehyde)

- and Poly(n-Octaldehyde), J. Polym. Sci., Polym. Chem. Ed., 14, 2995 (1976).
77. J.S. Wood, I. Negulescu and O. Vogl, Higher Aliphatic Polyaldehydes. III. Crystal Structure, Crystallinity and Melting Transitions of Isotactic Poly(n-Heptaldehyde), J. Macromol. Sci., Chem. A11(1), 171 (1977).
  78. David Tirrell, David B. Bailey and O. Vogl, Polymers with Ultraviolet Absorbers and Functional Groups, Polymer Preprints, ACS Division of Polymer Chemistry, 18(1), 542 (1977) (Functional Polymers I.).
  79. K. Hatada, L.S. Corley, Sh.S. Vezirov and O. Vogl, Haloaldehyde Polymers. IV. PMR Rate Measurements of Anionic Chloral Polymerization. Vysokomol. Soedin., (A)19(9), 1987 (1977).
  80. L.S. Corley, P. Kubisa and O. Vogl, Haloaldehyde Polymers. V. Polymer Blends Involving Chloral Polymers, Polym. J. (Japan), 9(1), 47 (1977).
  81. D.W. Lipp, R.W. Campbell and O. Vogl, Stereoregularity as a Function of Side Chain Size in Perhaloaldehyde Polymerization, Polymer Preprints, ACS Division of Polymer Chemistry, 18(1), 40 (1977), (Haloaldehyde Polymers. VI).
  82. B. Yamada, R. W. Campbell and O. Vogl, Haloaldehyde Polymers. VII. Polymerization of Chlorodifluoroacetaldehyde, J. Polym. Sci., Polym. Chem. Ed., 15, 1123 (1977).
  83. Bunichiro Yamada, Richard W. Campbell and O. Vogl., Haloaldehyde Polymers. VIII. Preparation and Polymerization of Dichlorofluoroacetaldehyde, Polymer J. (Japan), 9(1), 23 (1977)
  84. D.W. Lipp and O. Vogl, Haloaldehyde Polymers. X. Poly(dibromochloroacetaldehyde), Polymer J. (Japan), 9(5), 499 (1977).
  85. D.W. Lipp and O. Vogl, Haloaldehyde Polymers. 11. Polybromal, Polymer (London), 18, 1051 (1977).
  86. H.J. Chang and O. Vogl, Regular Copolyamides. I. A Facile Method for the Preparation of Diamine-Oxamides, J. Polym. Sci., Polym. Chem. Ed., 15, 311 (1977).
  87. H.J. Chang and O. Vogl, Regular Copolyamides. II. Preparation and Characterization of Regular Aliphatic Copolyoxamides, J. Polym. Sci., Polym. Chem. Ed., 15, 1043 (1977).



88. D. Stevenson, A. Beeber, R. Gaudiana and O. Vogl, Regular Copolyamides. III. Preparation and Characterization of Regular Aliphatic/Aromatic Copolyoxamides, *J. Macromol. Sci., Chem.*, A11(4), 779 (1977).
89. D. Tirrell and O. Vogl, Regular Copolyamides. IV. Characterization of Membrane Morphology, *J. Polym. Sci., Polym. Chem. Ed.*, 15, 1889 (1977).
90. P. Kubisa and O. Vogl, Chloral Polymers by Cryotachensic Polymerization, *Macromol. Synth.*, 6, 49 (1977).
91. D.W. Lipp and O. Vogl, Stereoregularity as a Function of Side Chain Size in Perhaloaldehyde Polymerization, in RING OPENING POLYMERIZATION, T. Saegusa and E. Goethals, Ed., ACS Symposium Series 59, p. 111, 1977.
92. R. W. Campbell and O. Vogl, A Practical Synthesis of Tetrachloroethylene Oxide, *J. Macromol Sci, Chem.* A11(3), 515 (1977).
93. O. Vogl, with H. Cherdron, M.P. Dreyfuss, S. Penczek and E. Vandenberg, Panel on Oxonium Ion Polymerization, *J. Polym. Sci., Symposium No. 56*, 469 (1977).
94. C. D. Dudgeon and O. Vogl, Bisorthoesters as Polymer Intermediates. III. Oligomers Containing Purine Rings, *J. Macromol Sci., Chem.*, A11(11), 1989 (1977).
95. C.C. Dudgeon and O. Vogl, Bisorthoesters and Polymer Intermediates. I. Synthesis of Bisorthoesters, *J. Polym. Sci., Polym. Chem., Ed.*, 16, 1815 (1978).
96. C. Dudgeon and O. Vogl, Bisorthoesters as Polymer Intermediates II. A Facile Method for the Preparation of Polybenzimidazoles, *J. Polym. Sci., Polym. Chem. Ed.*, 16, 1831 (1978).
97. H. Inoue, M. Helbig and O. Vogl, Preparation and Characterization of Head-to-Head Polymers. 5. Head-to-Head Polystyrene, *Macromolecules*, 10(6), 1331 (1977).
98. Claude Strazielle, Henri Benoit and Otto Vogl, Preparation and Characterization of Head-to-Head Polymers. VI. Physioco-Chemical Properties of Head to Head Polystyrene in Dilute Solution, Comparison

- with Polystyrene of Different Structures, *Europ. Polym. J.*, 14(5), 331 (1978).
99. E. Marchal, H. Benoit and O. Vogl, Head-to-Head Polymers.VII. Comparison of Head-to-Head and Head-to-Tail Polystyrene by Thermally Stimulated Discharge, *J. Polym. Sci., Polymer Physics Ed.*, 16, 949 (1978).
100. M. Helbig, H. Inoue and O. Vogl, Preparation and Characterization of Head-to-Head Polymers. VIII. Head-to-Head Poly(Vinyl Cyclohexane), *J. Polym. Sci., Symposia Ed.*, 63, 329 (1978).
101. M. Jacovic and O. Vogl, Head-to-Head Polymers. IV. The Rheological Behavior of H-H Polymers and H-T Atactic Polystyrenes, *Polym. Eng. and Sci.*, 18(11), 875 (1978).
102. G. Weill and O. Vogl, Head-to-Head Polymers. X: High Resolution NMR Spectroscopy of Polystyrene and Poly(Vinyl Cyclohexane), *Polymer Bulletin*, 1, 181 (1978).
103. G. Weill and O. Vogl, H-H Polymers. VI: High Resolution NMR Spectroscopy of Poly(Methyl Acrylates), *Polymer Bulletin*, 1, 191 (1978).
104. F. Laupretre, L. Monnerie and O. Vogl, Head-to-Head Polymers. XII. <sup>13</sup>C NMR Spectroscopy of Head-to-Head Polystyrene: Molecular Motion in Solution, *Europ. Polym. J.*, 14, 981 (1978).
105. D. Tirrell, D. Bailey and O. Vogl, Polymers with Ultraviolet Absorbers as Functional Groups in POLYMERIC DRUGS, G. Donaruma and O. Vogl, Ed., 77 (1978).
106. O. Vogl and L.S. Corley, Polymerization in the Gel Phase, *Polymer Preprints, ACS Division of Polymer Chemistry*, 19(2), 210 (1978).
107. Sidney Siggia, Allen H. Beeber and O. Vogl, Regular Copolyamides. V. The Uptake of Metal Ions and Organic Components by Copolyoxamides, *Analytica Chimica Acta*, 96, 367 (1978).
108. Y. Chatani, Y. Ueda, H. Tadokoro, W. Deits and O. Vogl, Regular Copolyamides. VI. Structure of Poly(Hexamethylene Oxamide)-(Nylon 62), *Macromolecules*, 11(4), 636 (1978).

109. D. Bailey, D. Tirrell and O. Vogl, Functional Polymers, III. Endcapping and Substitution of Polymers with Compounds Containing Ultraviolet-Absorbing Groups, *J. Macromol. Sci., Chem.*, A12(5), 661 (1978).
110. D. Bailey, D. Tirrell, C. Pinazzi and O. Vogl, Functional Polymers. 4. Polymers of 2,4-Dihydroxy-4'-vinylbenzophenone, New Polymeric Ultraviolet Absorbers, *Macromolecules*, 11(2), 312 (1978).
111. J. Starr and O. Vogl, Higher Aliphatic Aldehyde Polymers. V. Cyclic Trimers of C-9 to C-12 Normal Aliphatic Aldehydes, *J. Macromol. Sci., Chem.*, A12(7), 107 (1978).
112. John Starr and Otto Vogl, Higher Aliphatic Aldehyde Polymers. VII. Poly(n-Decaldehyde), *Monatsh. Chem.*, 109, 1241 (1978).
113. J. Starr and O. Vogl, Higher Aliphatic Aldehyde Polymers. 8. Poly(Undecanal), *Makromol. Chemie.*, 179, 2621 (1978).
114. E. Schacht, D. Bailey and O. Vogl, Polyepiiodohydrin, *J. Polym. Sci., Polym. Chem. Ed.*, 16, 2343 (1978).
115. O. Vogl, Developments in Radical Polymerization, *J. Polym. Sci., Symposia Ed.*, 64, 1 (1978).
116. D.W. Lipp and O. Vogl, Haloaldehyde Polymers. IX. Polybromodichloroacetaldehyde, *J. Polym. Sci., Polym. Chem. Ed.*, 16(6), 1311 (1978).
117. O. Vogl, C.D. Dudgeon, W. Deits, S. Grossman and D. Tirrell, Functional Condensation Polymers and Copolyoxamides, *Polymer Preprints, ACS Division of Polymer Chemistry*, 19(2), 75 (1978).
118. L. DeMejo, W.J. McKnight and O. Vogl, Poly(Alkylene Oxide) Ionomers: 1. Copolymerization of Trioxane by Gas Phase Mixing of Comonomers and Initiator, *Polymer (London)*, 19(8), 956 (1978).
119. L. P. De Mejo, W. J. MacKnight and O. Vogl, Poly(Alkylene Oxide) Ionomers. III. The Calorimetric Dynamic Mechanical and Dielectric Properties of Polyoxymethylene Copolymers, *Abstracts, SPE ANTEC*, p. 5., 1978.
120. L. De Mejo, W. J. MacKnight and O. Vogl, Poly(Alkylene Oxide) Ionomers. II. Solution Co- and Terpolymerization of Trioxane for the Preparation of Poly(oxymethylene) Ionomers, *Polymer J. (Japan)*, 11(1), 15 (1979).

121. R.W. Campbell and O. Vogl, Haloaldehyde Polymers. 12. Preparation and Polymerization of Polybromomodifluoroacetaldehyde, *Makromol. Chem.*, 180, 633 (1979).
122. Richard W. Campbell and Otto Vogl, Haloaldehyde Polymers XIII. Polydibromofluoroacetaldehyde, *Monatshefte Chem.*, 110, 453 (1979).
123. L.S. Corley and O. Vogl, Haloaldehyde Polymers: 16. Stabilization of Anionically-Prepared Polychloral by End-Capping with Decomposable Cations and Other Additives, *Polymer (London)*, 20, 1535. (1979).
124. L.S. Corley and O. Vogl, Haloaldehyde Polymers. XVII. Stabilization of Polychloral by Termination with Hindered Aliphatic Isocyanates, *Acta Polymerica* 30(9), 573 (1979).
125. D. Tirrell, O. Vogl, T. Kobayashi, S. Kobayashi and T. Saegusa, Polyethers with Pendant Carboxylate Groups, *Polymer Preprints, ACS Division of Polymer Chemistry*, 20(1), 794 (1979).
126. Otto Vogl, Twenty Years of Aldehyde Polymerization, *Polymer News*, 5(4), 150 (1979).
127. B.C. Anderson, C. Hoover and O. Vogl, Polymerization Under a Pressure of 6 GPa, *Macromolecules*, 12(2), 222 (1979).
128. O. Vogl and D. Tirrell, Teaching of Polymer Synthesis, 178th. ACS Meeting, Washington, D.C., Division of Organic Coatings and Plastics Chemistry, *Preprints*, 41, 166 (1979).
129. D. Tirrell, S. Grossman and O. Vogl, Water Binding in Regular Copolyoxamide Membrances, *Polymer Preprints, ACS Division of Polymer Chemistry*, 29(2), 524 (1979).
130. J. Starr and O. Vogl, Higher Aliphatic Aldehyde Polymers. VI. Poly(n-Nonaldehyde), *J. Polym. Sci., Polym. Chem. Ed.*, 17(7), 1923 (1979).
131. Otto Vogl and David Tirrell, Functional Polymers with Biologically Active Groups, *J. Macromol. Sci., Chem.*, A13(3), 415 (1979).
132. Takeo Saegusa, Takatoshi Kobayashi, Shiro Kobayashi, Signe L.- Couchman and Otto Vogl, Cationic Homo- and Copolymerization of Ethyl Glycidate, *Polymer J. (Japan)*, 11(6), 463 (1979).

133. D. Tirrell, S. Grossman and O. Vogl, Regular Copolyamides 7. Water Absorption in Regular Copolyoxamides, *Makromol. Chem.*, 180, 721 (1979).
134. Otto Vogl, Head to Head Polymers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 20(1), 154 (1979).
135. Otto Vogl, Polymers with Functional Groups, *Pure and Applied Chem.*, 51, 2409 (1979).
136. Otto Vogl and David Tirrell, Polymeric Drugs, *Kagaku-zoken*, 81, 35 (1979).
137. Ingo Luderwald and Otto Vogl, Head-to-Head Polymers, 14. Thermal Degradation of Head-to-Head and Head-to-Tail Polystyrene and Poly (Vinyl Cyclohexane)s, *Makromol. Chem.*, 180, 2295 (1979).
138. O. Vogl and J. Starr, Crystalline Isotactic Poly-n-Butyraldehyde, *Macromol. Synth.*, 7, 19 (1979).
139. David Tirrell and Otto Vogl, Functional Polymers, 5. Preparation and Polymerization of Methyl 4-Vinylsalicylate, 4-Vinylsalicylic Acid and 4-Vinylacetylsalicylic Acid, *Makromol. Chem.*, 181, 2097 (1980).
140. M. Iwasaki, D. Tirrell and O. Vogl, Functional Polymers. VI. Preparation and Polymerization of Methyl 3-Vinylsalicylate, Methyl 3-Vinylacetylsalicylate, 3-Vinylsalicylic Acid and 3-Vinylacetylsalicylic Acid, *J. Polym. Sci., Polym. Chem. Ed.*, 18, 2755 (1980).
141. L. S. Corley and O. Vogl, Haloaldehyde Polymers. XIV. Endgroups in Polychloral, *J. Macromol. Sci., Chem.*, A14(7), 1105 (1980).
142. L. Steven Corley and Otto Vogl, Haloaldehyde Polymers, 15. Stabilization of Polychloral by Posttreatment, *Makromol. Chem.*, 181, 2111 (1980).
143. P. Kubisa, T. Teshirogi, K. Hatada, L. S. Corley and O. Vogl, Haloaldehyde Polymers. 18. Rate of Copolymerization of Chloral with Isocyanates, *Makromol. Chem.*, 181, 2267 (1980).
144. P. Kubisa, L. S. Corley and O. Vogl, Haloaldehyde Polymers. XIX. Degradation Behavior of Chloral Polymers, *J. Macromol. Sci., Chem.*, A14(8), 1145 (1980).

145. P. Kubisa and O. Vogl, Haloaldehyde Polymers. 20. Thermodynamics of Polymerization, *Polymer (London)*, 21(5), 525 (1980).
146. L. S. Corley and O. Vogl, Haloaldehyde Polymers. XXI. Optically Active Polychloral, *Polymer Bulletin*, 3, 211 (1980).
147. A. Yamada, S. Grossman and O. Vogl, Head-to-Head Polymers. XV. A Facile Synthesis of 2, 3-Disubstituted Succinates and Butanediols-1,4, *J. Polym. Sci., Polym. Chem. Ed.*, 18(6), 1739 (1980).
148. Gianflario Lunardon, Yuzo Sumida and Otto Vogl, Effects of Molecular Weight and Molecular Weight Distribution of Polyester Based Soft Segments on the Physical Properties of Linear Polyurethane Elastomers, *Angew. Makromol. Chem.*, 87, 1 (1980).
149. L. S. Corley, P. Kubisa, B. Yamada and O. Vogl, Effects of Side Group Bulk in Trihaloacetaldehyde Polymers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 21(1), 205 (1980).
150. Y. Sumida, S. Yoshida and O. Vogl, Ethyl 4-Vinyl- $\alpha$ -cyano- $\beta$ -phenylcinnamate and its Polymers. *Polymer Preprints, ACS Division of Polymer Chemistry*, 21(1), 201 (1980).
151. S. Yoshida and O. Vogl, Polymers of Vinyl-2-(Hydroxyphenyl) Benzotriazoles (Vinyl Tinuvin), *Polymer Preprints, ACS Division of Polymer Chemistry*, 21(1), 203 (1980).
152. O. Vogl and S. Yoshida, Synthetic Methods for the Preparation of Polymers with Head to Head Linkages, 41st Annual Meeting Japanes Chemical Society, Higashiosaka, 131 (1980).
153. O. Vogl and S. Yoshida, Functional Polymers with Photoactive and Bioactive Groups, *Preprints, Plenary Lectures, Annual Meeting, Society of Polymer Science, Kyoto (1980)*, 29(4), 648 (1980).
154. Otto Vogl, D. Bansleben, J. Muggee, M. Malanga, D. Tirrell and T. Saegusa, Polymerization of Epoxides with Functional Groups, *Preprints, Plenary Lectures, 5th Cationic Symposium, Kyoto, Japan*, 86 (1980).
155. W. Deits and O. Vogl, Gas-Liquid Polymerization for the Preparation of Polyoxamides, *Preprints, ACS Division of Organic Coatings an Plastics*, 42(1), 386 (1980).

156. S. Grossman and O. Vogl, Regular Copolyamides by Solution and Liquid-Liquid Interfacial Polymerization, Preprints, ACS Division of Organic Coatings and Plastics, 42(1), 116 (1980).
157. P. Kubisa, K. Neeld, J. Starr and O. Vogl, Polymerization of Higher Aldehydes, *Polymer (London)* 21(12), 1433 (1980).
158. D.A. Bansleben and O. Vogl, Bisorthoesters as Polymer Intermediates IV. Polybenzoxazole Oligomers, *J. Macromol. Sci., Chem.* A14(8), 1171 (1980).
159. D. Tirrell, O. Vogl, T. Saegusa, S. Kobayashi and T. Kobayashi, Copolymerization of Ethyl Glycidates with Cyclic Ethers by Organometallic Initiators, *Macromolecules*, 13, 1041 (1980).
160. S. Grossman, D. Tirrell and O. Vogl, Regular Copolyamides. VIII. Water Binding in Regular Copolyoxamide Membranes, ACS Symposium Series, 127, S.P. Rowland, Ed., (21), 361 (1980).
161. W. J. MacKnight, L. DeMejo and O. Vogl, Poly(alkylene Oxide) Ionomers IV. Polyoxymethylene Copolymers with Carboxylate Side Groups: Calorimetric, Dynamic Mechanical and Dielectric Properties, *Acta Polymerica*, 31(10), 617 (1980).
162. O. Vogl, J. Muggee and D. Bansleben, Poly(Alkylene Oxide) Ionomers V. Polymers and Copolymers of Cyclic Ethers with Pendant Carboxylate Groups, *Polymer J. (Japan)*, 12(9), 677 (1980).
163. L. Guy Donaruma, R.M. Ottenbrite and Otto Vogl, Polymeric Drugs, *Kobunshi*, 29, 541 (1980).
164. S. Kobayashi and O. Vogl, Trends in Polymer Science and Engineering, *Kagaku no Ryoiki*, 34(8), 41 (1980).
165. O. Vogl and S. Yoshida, Synthesis and Polymerization of Photoactive Monomers, *Rev. Rou. de Chimie*, 25(7), 1123 (1980).
166. Larry Steven Corley, Otto Vogl, Tadeusz Biela, Jan Michalski, Stanislaw Penczek and Stanislaw Slomkowski, Optically Active Zwitterions, *Makromol. Chem., Rapid Commun.*, 1, 715 (1980).
167. S. Grossman, A. Yamada and O. Vogl, Head-to-Head Polymers XVI. Polymerization of 2,3-Dimethylbutadiene-1,3 to cis- and trans-1,4-Poly(2,3-dimethylbutadiene), *J. Macromol. Sci., Chem.*, A16(4), 897 (1981).

168. Steven Grossman, Andrzej Stolarczyk and Otto Vogl, Head to Head Polymers XVII. Head to Head Polypropylene, *Monatshefte Chem.*, 112, 1279 (1981).
169. Koichi Hatada, Shin-ichi Shimizu, Heimei Yuki, William Harris and Otto Vogl, Haloaldehyde Polymers XXII: Separation of Isotactic Polymers of R-(+) and S-(-)- $\alpha$ -Methylbenzyl Methacrylates on Optically Active Polychloral, *Polymer Bulletin* 4, 179 (1981). Corrections 4, 683 (1981).
170. P. Kubisa, L. S. Corley, T. Kondo, M. Jacovic and O. Vogl, Haloaldehyde Polymers XXIII: Thermal and Mechanical Properties of Chloral Polymers, *Polym. Eng. and Sci.*, 21(13), 829 (1981).
171. W. Deits, S. Grossman and O. Vogl, Novel Preparations of Specialty Polyamides by Interfacial and Solution Methods, *J. Macromol. Sci., Chem.*, A15(5), 1027 (1981).
172. K. Neeld and O. Vogl, Fluoroaldehyde Polymers, *Macromol. Reviews*, 16, 1 (1981).
173. Y. Sumida and O. Vogl, Functional Polymers. VII. Ethyl 4-Vinyl- $\alpha$ -cyano- $\beta$ -phenylcinnamate, *Polymer J. (Japan)*, 13(6), 521 (1981).
174. W. Deits and O. Vogl, Functional Polymers. VIII. Polyesters from Hindered Bisphenols, *J. Macromol. Sci., Chem.* A16(6), 1145 (1981).
175. W. Deits and O. Vogl, Functional Polymers. IX. Polycarbonates and Alternating Copolycarbonates of Bithionol, *J. Polym. Sci., Polym. Chem. Ed.*, 19(2), 403 (1981).
176. W. Deits, O. Vogl and E. Westhead: Functional Polymers X. Hydrolysis Studies of Polyesters and Polycarbonates of Bithionol and their Copolymers, *J. Macromol. Sci., Chem.*, A16(3), 691 (1981).
177. Witold Pradelok, Amitava Gupta and Otto Vogl, Functional Polymers XIV. Grafting of 2(2-Hydroxy-5-Vinylphenyl)2H-Benzotriazole onto Polymers with Aliphatic Groups, *J. Polym. Sci., Polym. Chem. Ed.*, 19, 3307 (1981).
178. H. Inoue and O. Vogl, Future Aspects in Polymer Science. I. General View, *Kagaku to Kogyo (Osaka)*, 55(2), 40 (1981).
179. H. Inoue and O. Vogl, Future Aspects in Polymer Science II. Specific Problems, *Kagaku to Kogyo (Osaka)*, 55(3), 74 (1981).



180. Larry Steven Corley, Otto Vogl, Tadeusz Biela, Stanislaw Penczek and Stanislaw Slomkowski, Kinetics of Zwitterion Formation from  $\gamma$ -Propiolactone and Tertiary Phosphines, *Makromol. Chem., Rapid Commun.* 2, 47 (1981).
181. Felix Bangerter, Siro Serafini, Piero Pino and Otto Vogl, The  $^{13}\text{C}$  NMR Spectrum of Head-to-Head Polystyrene, *Makromol. Chem., Rapid Commun.*, 2, 109 (1981).
182. William J. Harris and Otto Vogl, Synthesis of Optically Active Polymers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 22(2), 309 (1981).
183. M. Malanga and O. Vogl, Copolymerization of 3,4-Dimethyltetrahydrofuran with Substituted Epoxides, *Polymer Preprints, ACS Division of Polymer Chemistry*, 22(2), 311 (1981).
184. T. Florianczyk, C. Sullivan, Z. Janovic, and O. Vogl, Alternating Copolymers of Dimethylmaleic Anhydride, *Polymer Bulletin*, 5, 521 (1981).
185. Michael Malanga, Dietmar Lohmann, and Otto Vogl, Head-to-Head Disubstituted Polyolefins, *Proceeding 28th IUPAC Macromolecular Symposium*, p.175, Amherst, MA (1982).
186. T. Tanaka and O. Vogl, Head-to-Head Poly(Methyl Cinnamate) from Alternating Stilbene-Maleic Anhydride Copolymers *Macromol. Synth.*, 8, 21 (1982).
187. Tadeusz Biela, Stanislaw Penczek, Stanislaw Slomkowski and Otto Vogl, Racemic and Optically Active Poly (4-Methyl-2-Oxo-2-Hydro-1,3,2-Dioxaphospholane). Synthesis and Oxidation to the Polyacids, *Makromol. Chem., Rapid Commun.*, 3, 667 (1982).
188. Koichi Hatada, Taksuki Kitayama, Shin-ichi Shimizu, Heimei Yuki, William Harris and Otto Vogl, High-Performance Liquid Chromatography of Aromatic Compounds on Polychloral, *J. Chromatography*, 248, 63 (1982).
189. M. Kryszewski, J. Jachowicz and O. Vogl, The Thermal Stability of Polymer Blends, Vol. 3 of MMI Press Symposium Series, p. 373 (1982).
190. Z. Florjanczyk, B. Deopura, R. S. Stein and O. Vogl, Polyterephthalates of 2,3-Disubstituted Butanediols-1,4. Effect of Aliphatic Substituents on  $T_g$  and  $T_m$  of Polyesters, *J. Polym. Sci., Polym. Chem. Ed.*, 20, 1051 (1982).

191. M. Malanga and O. Vogl, Copolymerization of 3,4 Dimethyltetrahydrofuran with Cyclic Ethers, *J. Polym. Sci., Polym. Chem. Ed.*, 20, 2033 (1982).
192. M. Kryszewski, J. Jachowicz, M. Malanga and O. Vogl, Head-to-Head Polymers. XIV. Blends of Head-to-Head Polystyrene with Poly(2,6-dimethyl-1,4-phenylene oxide), *Polymer (London)*, 23(2), 271 (1982).
193. H. Kawaguchi, Y. Sumida, J. Muggee and O. Vogl, Head to Head Polymers. 19. Chlorination of cis-1,4-Polybutadiene, *Polymer (London)*, 23, 1805 (1982).
194. T. Kondo, M. Kitayama and O. Vogl, Head to Head Polymers 20. DSC Analysis of Blends of Head-to-Head or Head to Tail Poly(Vinyl Chloride) with Poly( $\omega$ -Caprolactone), *Polymer Bulletin* 8(1), 9 (1982).
195. Fu Xi, Walter Bassett, Jr. and Otto Vogl, Head to Head Polymers XXI. Esters of Alternating Copolymers of Maleic or 2,3-Dimethylmaleic Anhydride with Alkyl Vinyl Ethers, *J. Polym. Sci., Polym. Chem. Ed.*, 21(3), 891 (1982).
196. Otto Vogl and Amitava Gupta, Plastics Stabilized with Copolymerized Ultraviolet Stabilizers, *Ind. Chem. Bulletin*, 1, 169 (1982).
197. Shohei Yoshida and Otto Vogl, Functional Polymers 11. Synthesis and Polymerization of 2(2-Hydroxy-5-Vinylphenyl)2H-Benzotriazole, *Makromol. Chem.*, 183, 259 (1982).
198. Shohei Yoshida, C. Peter Lillya and Otto Vogl, Functional Polymers XII: Synthesis and Polymerization of 2(2-Vinyl-4-Hydroxyphenyl)2H-Benzotriazole and 2(3-Vinyl-4-Hydroxy-phenyl) 2H-Benzotriazole, *Monatshefte Chem.*, 113, 603 (1982).
199. Shohei Yoshida, C. Peter Lillya and Otto Vogl, Functional Polymers XIII. Synthesis and Polymerization of 2(2-Hydroxy-5-Methylphenyl)-5-Vinyl-2H-Benzotriazole, *J. Polym. Sci., Polym. Chem. Ed.*, 20, 2215 (1982).
200. A. Gupta, G.W. Scott, D. Kliger and O. Vogl, Functional Polymers XV. Photochemical Stability of Ultraviolet Screening Transparent Acrylic Copolymers of 2(2-Hydroxy-5-Vinylphenyl) 2H-Benzotriazole, *Polymer Preprints, ACS Division of Polymer Chemistry*, 23(1), 219 (1982).
201. Zohar Nir, Amitava Gupta and Otto Vogl, Functional Polymers. XVI. Synthesis and Polymerization of 2(2-Hydroxy-5-Isopropenylphenyl)2H-

- Benzotriazole and a New Synthesis of 2(2-Hydroxy-5-Vinylphenyl)2H-Benzotriazole, *J. Polym. Sci., Polym. Chem. Ed.*, 20, 2735 (1982).
202. M. Kitayama and O. Vogl, Functional Polymers. XVIII. Radical Grafting of 2(2-Hydroxy-5-Vinylphenyl)2H-Benzotriazole onto Polybutadienes, *Polymer J. (Japan)*, 14(7), 537 (1982).
203. Mark D. Purgett, Walter Deits and Otto Vogl, Functional Polymers XIX. Biuret Oligomers and Polymers of Biologically Active Primary Aliphatic Amines, *J. Polym. Sci., Polym. Chem. Ed.*, 20(9), 2477 (1982).
204. Takeshi Kondo, Takeo Saegusa and Otto Vogl, Functional Polymers XX. Methyl 5-Epoxyacetylsalicylate, Preparation and Copolymerization, *Polymer Bulletin* 7(11/12), 513 (1982).
205. Motozumi Kitayama and Otto Vogl, Functional Polymers XVII. Radical Grafting of Methyl 5-Vinylsalicylate onto Polybutadienes, *J. Macromol. Sci., Chem.*, A19(3), 375 (1983).
206. Shanjun Li, Amitava Gupta and Otto Vogl, Functional Polymers XXI. Synthesis of Compounds with More Than One Benzotriazole Group in the Molecule. *Monatshefte Chem.* 114, 937 (1983).
207. Shanjun Li, Walter Bassett, Jr., Amitava Gupta and Otto Vogl, Functional Polymers XXII. Ultraviolet Absorbers with 2(2-Hydroxy-phenyl)2H-Benzotriazole and 2-Hydroxybenzophenone (or Acetophenone) Chromophors in the Same Molecule, *J. Macromol. Sci., Chem.*, A20(3), 309 (1983).
208. Otto Vogl, Michael Malanga and Werner Berger, Head to Head Polymers, in *Contemporary Topics in Polymer Science*, Vol 4, 35 (1983).
209. Fu Xi and Otto Vogl, Head-to-Head Polymers. XXII. Toward the Synthesis of Pure Head-to-Head Poly(Methyl Methacrylate). Copolymerization of 2,3-Dimethylmaleic Anhydride and Ethylene, *J. Macromol. Sci., Chem.*, A20(2), 139 (1983).
210. Fu Xi and Otto Vogl, Head-to-Head Polymers XXIII. Toward Head-to-Head Poly(Methyl Methacrylates). Cyclopolymerization of Methacrylic Acid Derivatives. Hydrolysis and Esterification, *J. Macromol. Sci., Chem.*, A20(3), 321 (1983).

211. Michael Malanga and Otto Vogl, Head-to-Head Polymers XXIV. Synthesis of Head to Head Polyisobutylene by Grignard Coupling Reaction, J. Polym. Sci., Polym. Chem. Ed., 21, 26 (1983).
212. Michael Malanga and Otto Vogl, Head to Head Polymers XXV. Properties of Head to Head Polyisobutylene, Polym. Eng. and Sci., 23(10), 597 (1983).
213. M. Malanga and O. Vogl, Head to Head Polymers, 26. Blends of Head to Head and Head to Tail Polyisobutylene, Polymer Bulletin, 9, 236 (1983).
214. M. Malanga, F. Xi and O. Vogl, Head-to-Head Polymers 27. Thermal Degradation of Head to Head Polyisobutylene, Polymer Eng. and Sci., 23(4), 226 (1983).
215. Tadeusz Biela, Stanislaw Penczek, Stanislaw Slomkowski and Otto Vogl, Kinetic Determination of Stereoselectivity in the Anionic Polymerization of Ethyl- $\alpha$ -Phenyl- $\beta$ -Propiolactone, Makromol. Chem., 184, 811 (1983).
216. William J. Harris, Otto Vogl, J. R. Havens, and Jack L. Koenig, Haloaldehyde Polymers XXIV. Magic-Angle  $^{13}\text{C}$  NMR Spectroscopy of Chloral Polymers, Makromol. Chem., 184, 1243 (1983).
217. E. G. Brame, A.M. Raevsky, G.K. Semin, G.D. Jaycox, and O. Vogl, Haloaldehyde Polymers. XXV.  $^{35}\text{Cl}$  NQR Spectroscopy of Polychloral, Polymer Bulletin, 10(11/12), 521 (1983).
218. Z. Janovic, K. Saric and O. Vogl, Copolymers of Acrylonitrile with Some Brominated Acrylates, J. Macromol. Sci., Chem., A19 (8&9), 1137 (1983).
219. Karla Saric, Zvonimir Janovic and Otto Vogl, Terpolymerization of Acrylonitrile, Styrene and 2,3-Dibromopropyl Acrylate, J. Polym. Sci., Polym. Chem. Ed., 21(7), 1913 (1983).
220. Zvonimir Janovic, Karla Saric and Otto Vogl, Terpolymerization of Acrylonitrile, Styrene and 2,4,6-Tribromophenyl Acrylate, J. Polym. Sci., Polym. Chem. Ed., 21(9), 2713 (1983).
221. W. Berger, S. Riedel, H. J. Adler, G. Wunderlich, D. Lehmann and O. Vogl, The Mechanism of Initiation of the Anionic Polymerization of Acrylonitrile with  $^{14}\text{C}$ -Labeled Lithium Alkoxide in Dimethylformamide, J. Macromol. Sci., Chem. A20(3), 299 (1983).

222. K. Saric, Z. Janovic and O. Vogl, Copolymers of Styrene with Some Brominated Acrylates, *J. Macromol. Sci., Chem.*, A19(6), 837 (1983).
223. O. Vogl, P. Loeffler, D. Bansleben and J. Muggee, Polymers and Copolymers of Methyl  $\omega$ -Epoxyalkanoates. [Part VI of Poly(Alkylene Oxide) Ionomers.] IN COORDINATION POLYMERIZATION, C.C. Price and E.J. Vandenberg Eds., *Polymer Science and Technology*, Vol. 19, 95 (1983).
224. A. Gupta, G. W. Scott, D. Kliger and O. Vogl, Photochemical Stability of UV-Screening Transparent Acrylic Copolymers of 2-(2-Hydroxy-5-Vinylphenyl)2H-benzotriazole, *Polymers in Solar Energy Utilization*, Charles G. Gebelein, David J. Williams and Rudolph D. Deanin Eds., *ACS Symposium Series*, 220, 293 (1983).
225. Ann Christine Albertsson, Fu Xi, Shanjun Li and Otto Vogl, Permanent, Polymer-Bound Ultraviolet Stabilizers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 25(1), 64 (1984).
226. Otto Vogl, Yoshio Okahata, Donald A. Bansleben, John Muggee and Mark Purgett, Reactive Groups, Spacer Groups and Functional Groups in Macromolecular Design, *J. Macromol. Sci., Chem.*, A21(8&9), 1217 (1984).
227. A.C. Albertsson, L. G. Conarum, A. Salamone, C. Matsui, H. Konishi, K. Wada, S. Yoshida and O. Vogl, Functional Polymers XXIV. Activity of Low Molecular Weight and Polymeric Salicylic Acid Derivatives, *J. Macromol. Sci., Chem.*, A21(1), 77 (1984).
228. Shanjun Li, Ann-Christine Albertsson, Amitava Gupta, Walter Bassett, Jr. and Otto Vogl, Functional Polymers XXVII. 2(2-Hydroxy-4-Acryloxy (Methacryloxy)phenyl)2H-Benzotriazole: Monomers, Polymers, and Copolymers, *Monatshefte Chem.*, 115, 853 (1984).
229. O. Vogl, A.C. Albertsson, D.A. Bansleben, E. Borsig, P. Grosso, Z. Janovic, M. Kitayama, S.J. Li, J. Muggee, Z. Nir, Y. Okahata, W. Pradelok, M. Purgett and F. Xi., Functional Polymers. XXVIII. Functional Polymers, *Die Makromolekulare Chemie, Suppl.*, 7, 1 (1984).
230. Shanjun Li, Amitava Gupta, Ann Christine Albertsson, Walter Bassett, Jr. and Otto Vogl, Functional Polymers 29. Polymerizable Acrylic Ultraviolet Absorbers with Two Benzotriazole Groups in the Molecules, *Polymer Bulletin*, 12(3), 237 (1984).

231. Zhongjiang Song, Bengt Ranby, Amitava Gupta, Eberhard Borsig and Otto Vogl, Functional Polymers 31. ESCA Spectroscopy of Polyesters Stabilized with Polymer Bound Ultraviolet Stabilizers, *Polymer Bulletin*, 12(3), 245 (1984).
232. Fu Xi, Walter Bassett, Jr. and Otto Vogl, Functional Polymers 32. 5-Methoxy- and 5-Hydroxy-2H Benzotriazol-2-yl Mono- or Disubstituted Resorcinols or Phloroglucinols, *Makromol. Chem.*, 185(12), 2497 (1984).
233. F. Xi, W. Bassett, Jr. and O. Vogl, Functional Polymers 33. 2(2-Hydroxy-4-acryloxy(methacryloxy)phenyl)2H-4-methoxybenzotriazole. Monomers, Polymers and Copolymers, *Polymer Bulletin*, 11(4), 329 (1984).
234. Shanjun Li and Otto Vogl, Functional Polymers 34. Benzotriazole-Substituted Undecenoates, *Polymer Bulletin* 12(5), 375 (1984).
235. Otto Vogl, Functional Polymers. XXXV. Polymers with Functional Groups, *Polimery*, 29(9), 337 (1984).
236. Shoukuan Fu, Shanjun Li and Otto Vogl, Functional Polymers 36. N-Acryl(methacryl)N,N'-Dicyclohexylurea. *Polymer Bulletin*, 11(6), 505 (1984).
237. M. Malanga and O. Vogl, Head to Head Polymers XXIV. A New Synthetic Route to Poly(1,1-Dimethylpropane), *Acta Polymerica*, 35(6), 446 (1984).
238. F. Xi, W. Bassett, Jr., C. P. Lillya and O. Vogl, Head to Head Polymers XXX. An Unusual Route to 1,4-Diphenyl-2,3-dimethylbutadiene-1,3, *Polymer Bulletin*, 11(3), 237 (1984).
239. Otto Vogl, W. Bassett, Jr., S. Grossman, H. Kawaguchi, M. Kitayama, T. Kondo, M. Malanga and F. Xi, Head to Head Polymers XXXI. Head to Head Polymers, *J. Macromol. Sci., Chem.*, A21(13&14), 1725 (1984).
240. Amitava Gupta, Ranty Liang, Daniel Coulter, Otto Vogl and Gary W. Scott, Quenching of The Singlet Excimer in Polystyrene by Pendent 2-Hydroxyphenyl Benzotriazole Groups. Implications for Electronic Energy Transfer and Photostabilization, *Polymer Preprints, ACS Division of Polymer Chemistry*, 25(1), 54 (1984).
241. William Dickstein and Otto Vogl, Regular Polyamides IX. Some Aliphatic Aromatic Copolyoxamides, *J. Macromol. Sci., Chem.*, A21(6&7), 847 (1984).

242. Karla Saric, Zvonimir Janovic and Otto Vogl, Copolymers of Bromine-Containing Monomers. 5. Terpolymerization of Acrylonitrile, Styrene and Pentabromophenyl Acrylate, *J. Macromol. Sci., Chem.*, A21(3), 267 (1984).
243. Donald A. Bansleben, Marie J. Hersman and Otto Vogl, Poly(Alkylene Oxide) Ionomers VII. Use of Triethylaluminum/Water/Acetylacetone (1.0:0.5:1.0) for the Polymerization of Oxiranes, *J. Polymer Sci., Polym. Chem. Ed.*, 22(10), 2489 (1984).
244. John Muggie and Otto Vogl, Poly (Alkylene Oxide) Ionomers VIII. Synthesis of Methyl  $\omega$ -Alkenoates and Methyl  $\omega$ -Epoxy-alkanoates, *J. Polymer Sci., Polym. Chem. Ed.*, 22(10), 2501 (1984).
245. Donald A. Bansleben, Zvonimir Janovic and Otto Vogl, Poly(Aklylene Oxide) Ionomers XIII. Copolymers of Trioxane with the Epoxide and 1,3-Dioxolane of Methyl 10-Undecenoate, *J. Polym. Sci., Polym. Chem. Ed.*, 22(11), 3263 (1984).
246. L.G. Donaruma, O. Vogl and R.M. Ottenbrite, Polymeric Drugs, in Polymer Yearbook, Hans-Georg Elias and Richard A. Petrick Eds., Harwood Academic Publishers, Chur, London, Paris, Utrecht and New York, p. 259 (1984).
247. L.S. Corley, H. Inoue, M. Helbig and O. Vogl, Head to Head Polystyrene, *Macromol. Synth.*, 9, 31 (1985).
248. B. Bollens, C. Dudgeon and O. Vogl, Poly[2,2'-(p-Phenylene)-5,5'-bibenzimidazole], *Macromol. Synth.*, 9, 35 (1985).
249. P.M. Gomez, S.K. Fu, A. Gupta and O. Vogl, New 2(2-Hydroxyphenyl)2H-benzotriazole Ultraviolet Absorbers and Their Incorporation into Addition and Condensation Polymers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 26(1), 100 (1985).
250. Zvonimir Janovic, Karla Saric and Otto Vogl, Copolymers of Bromine-Containing Monomers 6. Terpolymerization of Styrene, Acrylonitrile and 2,4,6-Tribomophenyl Methacrylate, *J. Macromol. Sci., Chem.*, A22(1), 85 (1985).
251. Karla Saric, Zvonimir Janovic and Otto Vogl, Copolymers of Bromine-Containing Monomers 7. Copolymers of Styrene with Some Brominated Phenyl Methacrylates, *Croatica Chemica Acta*, 58(1), 57 (1985).

252. Otto Vogl, Ann Christine Albertsson and Zvonimir Janovic, Polymerizable, Polymeric and Polymer-Bound (Ultraviolet) Stabilizers, *Polymers Stabilization and Degradation*, Peter P. Klemchuk Ed., ACS Symposium Series, 280, 197 (1985).
253. Shikang Wu, Y. C. Jiang, Shohei Yoshida and Otto Vogl, Functional Polymers. XXV. Fluorescence Spectra of Derivatives of Methyl Salicylate and Copolymers of Methyl Vinylsalicylate, *J. Macromol. Sci., Chem.*, A22(8), 1121 (1985).
254. William Dickstein and Otto Vogl, Functional Polymers XXVI. Co- and Terpolymers Involving Methacrylates, N-Vinylpyrrolidone and Polymerizable Ultraviolet Stabilizers and Antioxidants, *J. Macromol. Sci., Chem.*, A22(4), 387 (1985).
255. Shanjun Li, Walter Bassett, Jr., Fu Xi and O. Vogl, Functional Polymers XXX. 2(2,4,6-Trihydroxyphenyl)2H-Benzotriazole [2(2H-Benzotriazole-2-yl)-1,3,5-Trihydroxybenzene] and Benzotriazole-Substituted Dihydrocoumarins, *Acta Polymerica*, 36(2), 81 (1985).
256. Otto Vogl, Ann Christine Albertsson and Zvonimir Janovic, Functional Polymers. XXXVII. New Developments in Specialty Polymers: Polymeric Stabilizers, *Polymer*, 26(9), 1288 (1985).
257. Ann Christine Albertsson, L. Guy Donaruma and Otto Vogl, Functional Polymers. XXXVIII. Synthetic Polymer as Drugs, Macromolecules as Drugs and as Carriers for Biologically Active Materials, David A. Tirrell, L. Guy Donaruma and Anne B. Turek Eds., *New York Academy of Sciences*, 446, 105 (1985).
258. Shoukuan Fu, Amitava Gupta, Ann Christine Albertsson and Otto Vogl, Functional Polymers. XXXIX. New Polymerizable 2(2-Hydroxyphenyl) 2H-Benzotriazole Ultraviolet Absorbers: 2[2,4 Dihydroxy-5-Vinyl (Isopropenyl)Phenyl]-1,3,2H-Dibenzotriazole, *New Trends in the Photochemistry of Polymers*, Norman S. Allen and Jan F. Rabek Eds., Elsevier Applied Science Publishers, London and New York, p. 247 (1985).
259. Paul Grosso and Otto Vogl, Functional Polymers 44. Polymeric Polyolefin Antioxidants, *Polymer Bulletin*, 14(3/4), 245 (1985).
260. Otto Vogl, New Polymer Structures, *J. Macromol. Sci., Chem.*, A22(5-7), 541 (1985).



261. Michael Malanga and Otto Vogl, Head to Head Polymers XXVIII. Attempted Syntheses of Linear Head to Head Polyisobutylene, J. Macromol. Sci., Chem., A22(12), 1623 (1985).
262. Fu Xi, C. Peter Lillya, Walter Basett, Jr. and Otto Vogl, Head to Head Polymers-XXXII: Toward Head to Head Poly( $\alpha$ -Methylstyrene). Synthesis of 2,3-Dimethyl-2,3-diphenylbutadiol-1,4-ditosylate and 1,4 Diphenyl-2,3-dimethylbutadiene-1,3, Monatshefte Chem., 116, 401 (1985)
263. Hurama Kawaguchi, Paula Loeffler and Otto Vogl, Head to Head Polymers 33. Bromination of Cis-1,4-polybutadiene to Head to Head Poly(Vinyl Bromide), Polymer, 26(8), 1257 (1985).
264. J. Zhang, G.D. Jaycox and O. Vogl, Optical Activity Based on Macromolecular Asymmetry. Initiation of Polymerization, Polymer Preprints, ACS Division of Polymer Chemistry, 26(1), 156 (1985).
265. Otto Vogl, L. Steven Corley, William J. Harris, Gary D. Jaycox and J. Zhang, Haloaldehyde Polymers XXVI. Optical Activity Based on Macromolecular Asymmetry, Die Makromolekulare Chemie, Suppl.,13, 1 (1985).
266. Otto Vogl, Haloaldehyde Polymers XXVII. Polymerization of Higher Aldehydes and Polymer Optical Activity Based on Macromolecular Asymmetry, The Chemist, 62(9), 16 (1985).
267. Thomas R. Doyle and Otto Vogl, Haloaldehyde Polymers 28. Synthesis and Polymerization of Florochlorobromoacetaldehyde, Polymer Bulletin, 14(6), 535 (1985).
268. John Muggie and Otto Vogl, Poly(Alkylene Oxide) Ionomers X. Copolymerization of Methyl  $\omega$ -Epoxyalkanoates and Characterization of the Polymers, J. Polym. Sci., Polym. Chem.Ed., 23(3), 649 (1985).
269. Donald A. Bansleben and Otto Vogl, Poly(Alkylene Oxide) Ionomers XI. Polymerization of Copolymerization of Methyl  $\omega$ -Epoxyundecanoate and Characterization of the Polymers, J. Polym. Sci., Polym. Chem. Ed., 23(3), 673 (1985).
270. Donald A. Bansleben and Otto Vogl, Poly(Alkylene Oxide) Ionomer XII. Hydrolysis of Polymers and Copolymers of Methyl 10,11-Epoxyundecanoate, J. Polym. Sci., Polym. Chem. Ed., 23(3), 703 (1985).

271. Tatsuro Ouchi, Hajime Yuyama and Otto Vogl, Synthesis of Poly(ethylene glycol)-Bound 3-(5-Fluorouracil-1-yl) Propanoic Acid, Its Hydrolysis Reactivity and Antitumor Activity, *Makromol. Chem., Rapid Commun.*, 6, 815 (1985).
272. Otto Vogl, Polymer Optical Activity Based on Macromolecular Asymmetry, Preprints, Japan -U.S. Polymer Symposium p.7, Kyoto, Japan (1985).
273. Otto Vogl, Aldehyde Polymers, *Encyclopedia of Polymer Sci. and Eng.*, Mark, Bikales, Overberger and Menges Eds., John Wiley & Sons, Inc. Publishers, New York, 1, 623 (1985).
274. Thomas R. Doyle and Otto Vogl, Fluorochlorobromoacetaldehyde and Its Polymerization, *Polymer Preprints, ACS Division of Polymer Chemistry*, 27(1), 375 (1986).
275. Liping Hu, Masato Nanasawa and Otto Vogl, Head-to-Head Poly[1-(1 or 2-vinylnaphthalene), 2,3-Di-[1-(or 2-)naphthylbutadienes-1,3] and Their Polymerization, *Polymer Preprints, ACS Division of Polymer Chemistry*, 27(1), 377 (1986).
276. Daniel R. Coulter, Amitava Gupta, Andre Yavrouian, Gary W. Scott, Donald O'Connor, O. Vogl and S.C. Li, Electronic Energy Transfer and Quenching in Copolymers of Styrene and 2-(2'-Hydroxy-5'-vinylphenyl)-2H-benzotriazole. *Photochemical Processes in Polymeric Systems 10.*, *Macromolecules*, 19(4), 1227 (1986).
277. Otto Vogl and Jingyun Zhang, One Handedness in Natural and Synthetic Macromolecules, *Polymer Preprints, SPSJ Annual Meeting, Kyoto*, 35(1), 45 (1986).
278. O. Vogl and W.J. Harris, Polyacetals, *Encyclopedia of Materials Science and Engineering*, M. B. Bever, Ed., Pergamon Press, Oxford and New York. 3602 (1986).
279. John Muggee and Otto Vogl, Poly(alkylene Oxide)Ionomers IX. Polymerization of Methyl  $\omega$ -Epoxyalkanoates and Characterization of the Polymers, *J. Polym. Sci., Part A: Polym. Chem.*, 24(9), 2367 (1986).
280. Shoukuan Fu and Otto Vogl, Functional Polymers XL: Synthesis of Mono- and Di(4-Methoxy)benzotriazole-Substituted 2,4-Dihydroxyaceto (or Benzo) Phenones, *Monatshefte Chem.*, 117, 805 (1986).

281. Peter Gomez and Otto Vogl, Functional Polymers XLV. Incorporation of Dihydroxy 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives into Polyesters, *Polymer J.*, 18(5), 429 (1986).
282. Peter M. Gomez, Liping Hu and Otto Vogl, Functional Polymers 46. Incorporation of Dihydroxy 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives into Polycarbonates, *Polymer Bulletin*, 15(2), 135 (1986).
283. Tatsuro Ouchi, Hirotochi Fujie, Satoshi Jokei, Yoshiomi Sakamoto, Hidenori Chikashita, Takeshi Inoi and Otto Vogl, Synthesis of Acryloyl-Type Polymer Fixing 5-Fluorouracil Residues through D-Glucosyl Residues and Its Antitumor Activity, *J. Polym. Sci., Polym. Chem. Ed.*, 23(9), 2059 (1986).
284. T. Ouchi, H. Yuyama, T. Inui, H. Murakami, H. Fujie and O. Vogl, Synthesis of Polyether-Bound 3-(5-Fluorouracil-1-yl) Propanoic Acid and Its Hydrolysis Reactivity, *Europ. Polym. J.* 22(7), 537 (1986).
285. Liping Hu and Otto Vogl, Poly(Alkylene Oxide) Ionomers XIV. Coordination Polymerization of  $\omega$ -Alkenoates and  $\omega$ -Epoxyalkanoates, *Die Makromol. Chem., Makromol. Symp.*, 3, 193 (1986).
286. Joachim Koetz, Karl-Joachim Linow, Burkart Philipp, Liping Hu and Otto Vogl, Poly(Alkylene Oxide) Ionomers XV. Effects of Charge Density and Structure of Side-Chain Branching on the Composition of Polyanion-Polycation Complexes, *Polymer*, 27(10), 1574 (1986).
287. Amitava Gupta, Mohammed N. Sarbolouki, Alan L. Huston, Gary W. Scott, Witold Pradelok and Otto Vogl, Functional Polymers. XLI. Photochemical Behavior in Copolymers of 2(2-Hydroxy-5-Vinylphenyl)2H-Benzotriazole and Methyl Methacrylate: Photochemical Processes in Polymeric Systems 6, *J. Macromol. Sci., Chem.*, A23(10), 1179 (1986).
288. Paul Grosso and Otto Vogl, Functional Polymers XLII. 4-Vinyl (or 4-Isopropenyl)-2,6-di-t-butylphenol: Synthesis and Copolymerization, *J. Macromol. Sci., Chem.*, A23(9), 1041 (1986).
289. Paul Grosso and Otto Vogl, Functional Polymers XLIII. Olefin Copolymers of 2,6-Di-t-butyl-4-Vinyl (or 4-Isopropenyl)phenol, *J. Macromol. Sci., Chem.*, A23(11), 1299 (1986).
290. Otto Vogl and Gary D. Jaycox, Macromolecular Asymmetry Can Produce Optical Activity, *CHEMTECH*, 11, 698 (1986).

291. Akehiro Abe, Kensabu Tasaki, Katsuhiko Inimata and Otto Vogl, Haloaldehyde Polymers XXXI. Conformational Rigidity of Polychloral. Effect of Bulky Substituents on the Polymerization Mechanism, *Macromolecules*, 19, 2707 (1986).
292. Masato Nanasawa, Liping Hu and Otto Vogl, Head to Head Polymers XXXV. Head-to-Head Poly(2-Vinyl)naphthalene, *Polymer J.*, 18, 681 (1986).
293. Zvonimir Janovic, Karla Saric and Otto Vogl, Copolymers of Bromine-Containing Monomers 8. Copolymers of Acrylonitrile with Some Brominated Phenyl Methacrylate, *Croatica Chemica Acta*, 59(2), 413 (1986).
294. Shamil Vezirov, Takeshi Kondo, L. Steven Corley, Liping Hu and Otto Vogl, Haloaldehyde Polymers XXIX. Properties and Morphology of Chloral Copolymer Blends., *J. Polymer Mater.*, 3, 173 (1986).
295. O. Vogl and M. Kryszewski, Blends of Head to Head Polymers and Other Unusual Polymer Structures, *Dresden Polymer Discussions*, 2, V8, 51 (1986).
296. Otto Vogl and Steven Grossman, Head to Head Polymers XXXVII. Head to Head Polymers, *Encyclopedia of Polymer Sci. & Eng.*, H.F. Mark, N.M. Bikales C.G. Overberger and G. Menges Eds., John Wiley and Sons Inc., New York, 7, 626 (1987).
297. L.P. Hu, M. Nanasawa and O. Vogl, Head to Head Polymers XXVI. Synthesis and Polymerization of 2,3-Di[1-(or 2)naphthyl]butadiene-1,3, *Acta Polymerica*, 38(1), 79 (1987).
298. Masato Nanasawa, Liping Hu and Otto Vogl, Head to Head Polymers 34. Head to Head Poly(1-Vinylnaphthalene), *Polymer*, 28(3), 514 (1987).
299. Karla Saric, Zvonimir Janovic and Otto Vogl, Copolymers of Bromine-Containing Monomers 9. Terpolymerization of Styrene, Acrylonitrile and Pentabromophenyl Methacrylate, *Croatica Chemica Acta*, 60(1), 91(1987).
300. Jingyun Zhang, Gary D. Jaycox and Otto Vogl, Haloaldehyde Polymers XXXIII. Polymerization of Chloral with Chiral Anionic Initiators. Stereochemistry of Initiation, *Polymer J.*, 19(5), 603 (1987).

301. Tatsuro Ouchi, Hajime Yuyama and Otto Vogl, Synthesis of Poly(ethylene glycols), Capped with 5-Fluorouracil Units through Ester Bonds and their Antitumor Activity, *J. Polymer Sci., Polymer Letter Ed.*, 25(7), 279 (1987).
302. Andres Sustic, Chongli Zhang and Otto Vogl, New 2(2-Hydroxyphenyl)2H-Benzotriazole Based Polymer-Bound Ultraviolet Stabilizers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 28(2), 226 (1987).
303. J. Bartus, A. Ichida, K. Mori and O. Vogl, Measurements of the Optical Activity of Poly(Triphenylmethyl Methacrylate) in Solution and Suspension, *Polymer Preprints, ACS Division of Polymer Chemistry*, 28(2), 228 (1987).
304. Andres Sustic, Ann Christine Albertsson and Otto Vogl, Permanent Ultraviolet Stabilizers for Coatings Application, *Preprints, ACS Division of Polymeric Materials: Science and Engineering*, 57, 231 (1987).
305. Jan Bartus, L. Steven Corley, Gary D. Jaycox and Otto Vogl, Helicity of Macromolecules and Other Supermolecular Substances, *Polymer Preprints, SPSJ (Japan)*, 36(5-10), 23 (1987).
306. Mark D. Purgett, William J. McKnight and Otto Vogl, Functional Polymers LI. Characterization and Property Analysis of w-Functionally Substituted Polyolefins, *Novel Polyolefin Ionomers, Polym. Eng. and Sci.*, 27(19), 1461 (1987).
307. Otto Vogl and Gary D. Jaycox, Helical Polymers, *Polymer Communications*, 28(13), 2179 (1987).
308. Tatsuro Ouchi, Hajime Yuyama and Otto Vogl, Syntheses of 5-Fluorouracil Terminated Monomethoxy Poly (Ethylene Glycol)s, their Hydrolysis Behavior and their Antitumor Activities, *J. Macromol. Sci., Chem.*, A24(9), 1011 (1987).
309. J. Koetz, K. J. Linow, B. Phillip, Liping Hu and O. Vogl, Poly(alkylene oxide) Ionomers XVI. Effect of the Structure of the Backbone Chain of Regular Branched Anionic Polymers on the Symplex Formation with Quaternary Ammonium Salts, *Acta Polymerica*, 38(12), 667 (1987).
310. Otto Vogl and Andres Sustic, Polymer Modification to Achieve Novel Properties, *Makromol. Chem., Macromol. Symp.* 12, 351 (1987).
311. Mark D. Purgett and Otto Vogl, Functional Polymers L. Terpolymers of 10-Undecenoate Derivatives with Ethylene and Propylene, *J. Macromol.Sci., Chem.*, A24(12), 1465 (1987).

312. Mark D. Purgett, Shishan Xie, Donald Bansleben and Otto Vogl, Functional Polymers XLVII. Synthesis of Various Derivatives of Alkenoates, J. Polymer Sci., Polymer Chem. Ed., 26(3), 657 (1988).
313. Mark D. Purgett and Otto Vogl, Functional Polymers XLVIII. Polymerization of  $\omega$ -Alkenoate Derivatives, J. Polymer Sci., Polymer Chem. Ed. 26(3), 677 (1988).
314. Jingyun Zhang, Gary D. Jaycox and Otto Vogl, Haloaldehyde Polymers 32. Polymerization of Chloral with Lithium t-Butoxide .Stereochemistry of Initiation and Early Propagation Steps, Polymer, 29(4), 707 (1988).
315. Piero Pino, Jan Bartus and Otto Vogl, Optical Activity Measurements of Solids in Suspension, Polymer Preprints, ACS Division of Polymer Chemistry, 29(1), 254 (1988).
316. Rixin Liu, Shikang Wu, Fu Xi and Otto Vogl, Functional Polymers LIII. Photochemical Behavior of 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives 1. Ultraviolet Spectra and Efficiency of Photostabilization of 2(2-Hydroxy-4-Acryloxyphenyl)2H-Benzotriazole, its Polymers and Copolymers, Polymer Bulletin, 20(1), 59 (1988).
317. Guangsong Dai, Shihkang Wu, Andres Sustic, Fu Xi and Otto Vogl, Functional Polymers LIV. Photochemical Behavior of 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives 2. Influence of Substituents on the Ultraviolet Spectra of 2(2-Hydroxyphenyl)2H-Benzotriazoles, Polymer Bulletin, 20(1), 67 (1988).
318. Yongcai Jiang, Shikang Wu, Andres Sustic, Fu Xi and Otto Vogl, Functional Polymers LV. Photochemical Behavior of 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives 32. Effect of the Position of the Substituents, Polymer Bulletin, 20(2), 161 (1988).
319. Yongcai Jiang, Shikang Wu, Andres Sustic, Fu Xi and Otto Vogl, Functional Polymers LVI. Photochemical Behavior of 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives 4. Spectroscopic Study of Ultraviolet Absorbers With More Than One 2(2-Hydroxyphenyl)2H-Benzotriazole Group and More Than One *ortho*-Hydroxy Group in the Molecule, Polymer Bulletin, 29(2), 169 (1988).
320. Otto Vogl, L. S. Corley, W. J. Harris, G. D. Jaycox, J. Zhang, T.R. Doyle and J. Bartus, HELICAL POLYMERS: Optical Activity Based on

- Macromolecular Asymmetry, Proceedings, 31th IUPAC Congress, Sofia, Bulgaria, 1987.
321. Jan Bartus, Joseph R. Murdoch and Otto Vogl, Synthesis and Characterization of Helical Polymers: Optical Activity, Preprints 32nd IUPAC Symposium on Macromolecules [MACRO 88], #3.2.07 IL 40 (1988).
322. Shoukuan Fu, Shanjun Li and Otto Vogl, Functional Polymers LII. Synthesis and Polycondensation of 2(2,4-Dihydroxyphenyl)2H-1,3-Bis [4-Carboxy(or 4-Carbomethoxy)]2H-Benzotriazole, Monatshefte Chem., 119, 1299 (1988).
323. L. Steven Corley, Gary D. Jaycox and Otto Vogl, Haloaldehyde Polymers XXX. Macromolecular Asymmetry as the Basis of Optical Activity in Polymers, J. Macromol. Sci., Chem., A25(5-7), 519 (1988).
324. K. P. Ghiggino, A.D. Scully, S.W. Bigger, M.D. Yandell and O. Vogl, Photophysics of Polymer-Bound 2-(2'-Hydroxyphenyl)2H-Benzotriazole Photostabilizers, J. Polym. Sci., Polym. Lett., 26(12), 505 (1988).
325. Gary D. Jaycox and Otto Vogl, Optically Active Polychloral Based on Macromolecular Asymmetry. Polymerization of Chloral and Chiral Secondary Alkoxide Initiators, Polymer Preprints, ACS Division of Polymer Chemistry, 30(1), 181 (1989).
326. Koichi Hatada, Koichi Ute, Tamaki Nakano, Yoshio Okamoto, Thomas R. Doyle and Otto Vogl, Haloaldehyde Polymers XXXV.  $^1\text{H}$ ,  $^{19}\text{F}$  and  $^{13}\text{C}$  NMR Spectra and Stereochemistry of Bornyl Esters of Fluorochlorobromoacetic Acid, Polymer Journal, 21(2), 171 (1989).
327. Eherhard Borsig, Angela Karpatyova and Otto Vogl, Functional Polymers LVII. Reactivity Ratios and UV Spectral Characteristics of Copolymers of Vinyl or Isopropenyl Derivatives of 2-(2-Hydroxy-phenyl)2H-Benzotriazole, Collec. Czechoslov. Chem. Comm., 54, 96 (1989).
328. Koichi Hatada, Koichi Ute, Tamaki Nakano, Frantisek Vass, and Otto Vogl, Haloaldehyde Polymers 34.  $^1\text{H}$  and  $^{13}\text{C}$  NMR Spectra of the Chloral Oligomers Prepared by Lithium tert-Butoxide Initiation and the Assignment of the Meso/Racemo Addition Products of the Dimers, Makromol. Chem., 190, 221 (1989).

329. William J. Harris and Otto Vogl, Haloaldehyde Polymers XXXVI. Optically Active Polychloral Initiated with Strong Chiral Anionic Initiators, J. Macromol. Sci.-Chem., A26(8), 1067 (1989).
330. William J. Harris and Otto Vogl, Haloaldehyde Polymers XXXVII. Optically Active Polychloral with Weak Chiral Anionic Initiators, J. Macromol. Sci.-Chem., A26(8), 1083 (1989).
331. Gary D. Jaycox, Fu Xi, Otto Vogl, Koichi Hatada, Koichi Ute and Tohru Nishimura, Oligomerization of Chloral with Lithium t-Butoxide: Stereochemistry of Early Chain Growth Steps, Polymer Preprints, ACS Division of Polymer Chemistry, 30(2), 167 (1989).
332. Thomas R. Doyle and Otto Vogl, Bromochlorofluoromethane and Deuterobromochlorofluoromethane of High Optical Purity, J. Am. Chem. Soc., 111, 8510 (1989).
333. Mark D. Purgett and Otto Vogl, Functional Polymers XLIX. Copolymerization of  $\omega$ -Alkenoates with  $\alpha$ -Olefins and Ethylene, J. Polymer Sci., Polymer Chem Ed., 27(6), 2051 (1989).
334. Otto Vogl, Gary D. Jaycox, Fu Xi and Koichi Hatada, Helical Polymers: Optical Activity Based on Rigid Macromolecular Conformation, Polymer Preprints, ACS Division of Polymer Chemistry, 30(2), 435 (1989).
335. Otto Vogl, Jan Bartus and Joseph R. Murdoch, Stereo- and Conformational Control in the Synthesis of Helical Polymers: Solid State Measurements of Optical Activity, in Frontiers of Macromolecular Science, 32nd IUPAC International Symposium on Macromolecules, T. Saegusa, T. Higashimura, A. Abe eds., Blackwell Scientific Publishers, p. 31 (1989).
336. Otto Vogl, Tribute to Dr. Maurits Dekker on His 90th Birthday, March 18, 1989, J. Macromol. Sci.-Chem., A26(8), 1015 (1989).
337. Otto Vogl, Macromolecular Design and Architecture, Pacific Polymer Preprints, 1, 11 (1989).
338. Jan Bartus, Jozef Beniska and Otto Vogl, Electrically Conducting Processable Polymer Blends, Pacific Polymer Preprints, 1, 193 (1989).
339. Gary D. Jaycox, Koichi Hatada, Fu Xi and Otto Vogl, Chloral and Bromal Oligomers with a Single Helical Screw Sense, Pacific Polymer Preprints, 1, 267 (1989).



340. William J. Simonsick Jr., Maryann Fulginiti, Fu Xi and Otto Vogl, Analyses of Linear Chloral and Bromal Oligomers by Potassium Ionization of Desorbed Species, *Pacific Polymer Preprints*, 1, 269 (1989).
341. William J. Simonsick, Jr., Charles T. Berge, Otto Vogl and Andres Sustic, The Analysis of Polymer Additives by Potassium Ionization of Desorbed Species ( $K^+IDS$ ), *Pacific Polymer Preprints*, 1, 271 (1989).
342. Shanjun Li, Anwei Qin, Hanmin Zhang, Jinming Chen and Otto Vogl, Synthesis and Evaluation of 4'-Acetyl-3' Hydroxyphenyl-2-Methyl Propenoate-A New UV Polymerizable Stabilizer, *Pacific Polymer Preprints*, 1, 337 (1989).
343. Franz Thomas Schwarz, Gehard Stern, Fu Xi and Otto Vogl, Polymers from Triphenylmethyl(Meth)Acrylamide, *Pacific Polymer Preprints*, 1, 347 (1989).
344. Gary D. Jaycox and Otto Vogl, Polymerization of Chloral with Lithium R(-) and S(+)-2-Octanoxides Incorporating a Preferred Helical Screw Sense Into Polychloral, *Polymer, Comm.*, 30, 354 (1989).
345. Otto Vogl, Fu Xi, Frantisek Vass, Koichi Ute, Tohru Nishimura, Koichi Hatada, Direct Formation of the Helical Polymer Conformation in Stereospecific Polymer Synthesis. X-Ray Crystallographic Determination of Linear Chloral Oligomers, *Macromolecules*, 22, 4658 (1989).
346. Koichi Ute, Masuharu Kashiyaama, Ken-ichi Oka, Koichi Hatada and Otto Vogl, On-Line GPC/NMR Analysis of the Mixture of Chloral Oligomers, *Makromol. Chem., Rapid Comm.* 11, 31 (1990).
347. Thomas R. Doyle and Otto Vogl, A Facile Synthesis of Fluorochlorobromoacetic Acid, *Monatshefte Chem.*, 121, 31 (1990).
348. Gary D. Jaycox and Otto Vogl, Haloaldehyde Polymers 41. Asymmetric Polymerization of Chloral with Chiral Lithium Salts of Sterols as Initiators, *Makromol. Chem., Rapid Comm.*, 11, 61 (1990).
349. Julia Lucki, Jan F. Rabek, Bengt Ranby, B.J. Qu, Andres Sustic, and Otto Vogl, Surface Photografting of Polymerizable 2-(2-Hydroxy-phenyl) 2H-Benzotriazoles as Ultra-Violet Stabilizers, *Polymer*, 31, 1772 (1990).
350. Koichi Ute, Tohru Nishimura, Koichi Hatada, Fu Xi, Frantisek Vass and Otto Vogl, Haloaldehyde Polymers 40. Stereostructure of Chloral Oligomers Prepared with Lithium tert-Butoxide. Helical Conformation of

- the Linear Isotactic Oligomers in Crystal and in Solution, *Makromol. Chem.*, 191(3), 557 (1990).
351. Otto Vogl, Jan Bartus and Joseph R. Murdoch, Solid-State, Optical Rotation Measurements on Macromolecules Using Powder Suspensions, *Monatshefte Chem.*, 121, 311 (1990).
352. William J. Simonsick Jr., Koichi Hatada, Fu Xi and O. Vogl, Haloaldehyde Polymers 47. Analysis of Linear Fluoral Oligomers by Gas Chromatography and Potassium Ionization of Desorbed Species, *Macromolecules*, 23(20), 4470 (1990).
353. Koichi Hatada, Koichi Ute, Tohru Nishimura, Fu Xi and Otto Vogl, Haloaldehyde Polymers XLVIII. Optical Activity of Diastereomeric Bornyloxy Terminated Aldehyde Unimers, *Bulletin des Societes Chimiques Belges*, 99(11/12) 903 (1990).
354. K.P. Ghiggino, A.D. Scully, O. Vogl and S.W. Bigger, Electronic Energy Transport in Vinyl Aromatic Polymers, in *Progress in Pacific Polymer Science*, B.C. Anderson and Y. Imanishi eds., Springer Verlag, p. 295 (1990).
355. Otto Vogl, Gary D. Jaycox and Koichi Hatada, Macromolecular Design and Architecture, *J. Macromol. Sci., Chem.*, A27(13&14), 1781 (1990).
356. Otto Vogl, The Pacific Polymer Federation. *Progress in Pacific Polymer Science*, B.C. Anderson and Y. Imanishi eds., Springer Verlag, p.3 (1991).
357. Otto Vogl, Fu Xi, Gary D. Jaycox, William Simonsick, Jr. and K. Hatada, Macromolecular Design and Architecture, in Progress in Pacific Polymer Science, B.C. Anderson & Y. Imanishi eds., Springer Verlag, p. 39 (1991).
358. Otto Vogl and Hartwig Hoecker, Panel Discussion "Polymer Science and the Arts", in Progress in Pacific Polymer Science, B.C. Anderson and Y. Imanishi eds., Springer Verlag, p. 394 (1991).
359. William J. Simonsick Jr., Koichi Hatada, Fu Xi and O. Vogl, Haloaldehyde Polymers 47. Analysis of Linear tert-Butoxide-Initiated, Acetate-Capped Chloral Oligomers by Potassium Ionization of Desorbed Species, *Macromolecules* 24(6), 1720 (1991).
360. A.D. Scully, S.W. Bigger, K.P. Ghiggino and O. Vogl, Temperature Dependence of Fluorescence from Polymer-Bound 2(2-

- Hydroxyphenyl)2H-Benzotriazole Photostabilizers, *J. Photochem. Photobiol. A: Chem.*, 55, 387 (1991).
361. Koichi Ute, Ken-ichi Oka, Masaharu Kashiya, Koichi Hatada, Fu Xi and Otto Vogl, Haloaldehyde Polymers 43. Structure of 2-Bornyloxy-Terminated Chloral Oligomers, *Makromol. Chem.*, 192, (1), 35 (1991).
362. Thomas R. Doyle and Otto Vogl, Haloaldehyde Polymers 44. Synthesis and Polymerization of Racemic Fluorochlorobromoacetaldehyde, *Polymer*, 32(15), 2869 (1991).
363. Thomas R. Doyle and Otto Vogl, Haloaldehyde Polymers 45. Separation of Fluorochlorobromoacetic Acid into Its Antipodes; Synthesis of Optically Active Fluorochlorobromoacetaldehyde and Its Polymerization, *Polymer*, 32(4), 751 (1991).
364. Shanjun Li, Anwei Qin, Hanmin Zhang, Jingmin Chen and Otto Vogl, Functional Polymers 66. Synthesis and Evaluation of 4-Acetyl-3-Hydroxyphenyl Methacrylate-A Useful Polymerizable UV Stabilizer, *Acta Polymerica*, 42, (5), 193 (1991).
365. Peter Zarras and Otto Vogl, Ketenes and Bisketenes as Polymer Intermediates, *Progress in Polymer Science*, 16 (2/3), 173 (1991).
366. Manfred Raetzsch and Otto Vogl, Radical Copolymerization of Donor/Acceptance Monomers, *Progress in Polymer Science*, 16(2/3), 279 (1991).
367. Otto Vogl, Gary D. Jaycox, William J. Simonsick, Jr., and Koichi Hatada, Rational Design of Macromolecular Structures: Focusing on the Embryonic States of Polymerization, *J. Macromol. Sci.-Chem.*, A28 (11 & 12), 1267 (1991).
368. Tong Li, Shanjun Li, Shoukuan Fu and Otto Vogl, Functional Polymer LVII. Electronic Absorption Spectra of Benzotriazole Derivative/Electron Acceptor System, *J. Macromol. Sci.-Chem.*, A28(6), 673 (1991).
369. Otto Vogl, Tomorrow's Polymer Technology, *Polymer News*, 16(2), 34 (1991).
370. E. Borsig, Z. Hlouskova, F. Szocs, L. Hrcakova and O. Vogl, Reactivity of 2[2-Hydroxy-5-vinylphenyl]2H-benzotriazole-Methyl Methacrylate Copolymer Towards Alkyl and Peroxy Radical in the Solid State, *Europ. Polym. J.*, 27(8), 841 (1991).

371. Koichi Ute, Katsuo Hirose, Hiraki Kashimoto, Koichi Hatada and Otto Vogl, Haloaldehyde Polymers 51. Helix Sense Reversal of Isotactic Chloral Oligomers in Solution, *J. Am. Chem. Soc.*, 113, 6305 (1991).
372. F.W. Hein Kruger, William J. Simonsick Jr., Koichi Hatada and Otto Vogl, Haloaldehyde Polymers 56. Bromal Oligomers, Synthesis and K<sup>+</sup>IDS Characterization, *Polymer Comm.*, 32(16), 497 (1991).
373. William J. Simonsick Jr., Fu Xi, Koichi Hatada and Otto Vogl, Haloaldehyde Polymers XLIX. Analysis of Linear Bornyl Oxide Initiated Acetate Endcapped Chloral Oligomers by Potassium Ionization of Desorbed Species Mass Spectrometry, *Monatshefte Chem.*, 122(12), 967 (1991).
374. Gary D. Jaycox and Otto Vogl, Helix Sense-Selective Polymerization of Chloral with Chiral Alkoxide Initiators. Turning the Chiroptical Properties of the Polymer, *Polymer J.*, 23(10), 1213 (1991).
375. Koichi Ute, Ken-ichi Oka, Yoshio Okamoto, Koichi Harada, Fu Xi and Otto Vogl, Haloaldehyde Polymers LIII. Optical Resolution of Purely Isotactic Oligomers of Chloral. Optical Activity of the Chloral Oligomers Assuming One-Handed Helical Conformation in Solution, *Polymer J.*, 23(12), 1419 (1991).
376. Otto Vogl, Christoph Kratky, William J. Simonsick Jr., Fu Xi and K. Hatada, Haloaldehyde Polymers 58. Design and Architecture of Macromolecular Structures, *Makromol. Chem., Symp.*, 53, 151 (1992).
377. Ulrike G. Wagner, Christoph Kratky and Jan Bartus, Stereochemistry of Bromal Unimers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 33(1), 1008 (1992).
378. Charles M. Garner, Yue Ma and Jan Bartus, Capillary Gas Chromatography Analysis of Low Molecular Weight Oligomers, *Polymer Preprints, ACS Division of Polymer Chemistry*, 33(1), 1010 (1992).
379. F. W. Hein Kruger, Jan Bartus, Charles M. Garner, William J. Simonsick Jr., Koichi Hatada and Otto Vogl, Co-Oligomerization of Chloral and Bromal, *Polymer Preprints, ACS Division of Polymer Chemistry*, 33(1), 1012 (1992).
380. Christoph Kratky, Ulrike Wagner, Koichi Ute, Koichi Hatada, William J. Simonsick Jr., F. W. Hein Kruger, Fu Xi and Otto Vogl, Haloaldehyde Polymers 55. Diastereomeric Bromal Unimers: Synthesis, Characterization and Absolute Configuration, *Macromolecules*, 25, 2319 (1992).

381. Otto Vogl, Charles Garner, William J. Simonsick Jr., Christoph Kratky, Koichi Ute and Koichi Hatada, Stereochemistry of Oligomers in Stereospecific and Conformational Specific Ionic Polymerizations, *Makromol. Chem., Macromol. Symp.*, 60, 197 (1992).
382. Jan Bartus, William J. Simonsick Jr., Koichi Hatada and Otto Vogl, Amine Initiated Chloral Oligomerization and Polymerization, *Polymer Preprints, ACS Division of Polymer Chemistry*, 33(2), 114 (1992).
383. Otto Vogl, Gary D. Jaycox, Christoph Kratky, William J. Simonsick Jr. and Koichi Hatada, Haloaldehyde Polymers 57. Mapping the Genesis of Helical Structure in Polymers of the Trihaloacetaldehydes, *Accounts in Chemistry*, 25(9), 408 (1992).
384. Otto Vogl, Aldehyde Polymerization, Helical Polymers, Macromolecular Asymmetry and Oligomers, *J. Macromol. Sci., Chem.*, A29(11), 1085 (1992).
385. Charles M. Garner, Jan Bartus, William J. Simonsick Jr., Koichi Ute, Koichi Hatada and Otto Vogl, Oligomers of Stereoregular Polymers, *Makromol. Chem., Macromol. Symp.*, 64, 167 (1992).
386. Jan Bartus and Otto Vogl, Solid State Measurements of Optical Activity 3. Poly(Triphenylmethyl Methacrylate) in Solution and Suspension, *Polymer Bulletin*, 28 (2), 203 (1992).
387. Shanjun Li, Witold Pradelok, Zohar Nir and Otto Vogl, Synthesis and Polymerization of 2-(2-Hydroxy-5-Vinylphenyl)-2H-Benzotriazole and 2-(2-Hydroxy-5-Isoprenylphenyl)-2H-Benzotriazole and 2-(2-Hydroxy-5-Isoprenylphenyl)-2H-Benzotriazole, *Macromolecular Synthesis* 11, 1 (1992)
388. Otto Vogl, Herbert S. Eleuterio and Koichi Hatada, Exploration of New Polymers and Elucidation of Stereochemistry of Polymerization. General Concept of Stereo- and Conformational Control in Addition Polymerization, *Polymer Preprints, Japan, (Annual Meeting of SPSJ, Yokohama, Japan, May 26-29 1992)*, 41 (1), 9-12 (1992)-IA-IL-03.
389. Otto Vogl and Jan Bartus, Oriental Lacquers 1: The Urushiol Components, *Polymer Preprints, ACS Division of Polymer Chemistry*, 34(1), 582 (1993).

390. Otto Vogl and Jan Bartus, Oriental Lacquer 2: Ultraviolet Stabilizers for Urushiol, Polymer Preprints, ACS Division of Polymer Chemistry, 34(1), 584 (1993).
391. F.W. Hein Kruger, William J. Simonsick Jr., Takeshi Asada, Koichi Ute, Koichi Hatada and Otto Vogl, Haloaldehyde Polymers 60. Cooligomers of Chloral and Bromal, Polymer International, 31, 61 (1993)
392. Jan Bartus and Otto Vogl, Measurement of Optical Activity of isotropic Compounds in Suspension. (Measurements on Solids 2. Inorganic Crystals), Monatshefte Chem., 124, 217 (1993)
393. Fu Xi, Jan Bartus and Otto Vogl, Optical Activity Measurements on Solids 3., Non-Optically Active Synthetic Polymers, Polymer International, 31, 183 (1993)
394. Otto Vogl, Configurational and Conformational Considerations for Synthetic Helical Polymers, Polymer Preprints, ACS Division of Polymer Chemistry, 34 (1), 803 (1993)
395. Eniko Foldes, Gyorgy Deak and Otto Vogl, Head to Head Polymers 38. An Improved Synthesis of Head to Head Polystyrene, Europ. Polymer J., 29 (2/3), 321 (1993)
396. F. W. Hein Kruger, J. Bartus, W.J. Simonsick Jr., K. Hatada and O. Vogl, Haloaldehyde 61. Benzyl Oxide-Initiated Chloral Oligomers, Polymer Science, 35 (1), 19 (1993)
397. Jan Bartus, Koichi Hatada and Otto Vogl, Heterocyclic Tertiary Amines as Initiators for Haloaldehyde Oligomerization, Heterocycles, 35 (1), 181 (1993)
398. Peter Zarras and Otto Vogl, Polycationic Salts Based on 2-Ionene Oligomers of Styrene, Polymer Preprints, ACS Division of Polymer Chemistry, 34 (2), 424 (1993)
399. Andres Sustic, Chongli Zhang and Otto Vogl, Functional Polymers 59. Glycidyl Methacrylate Based 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives, J. Macromol. Sci., Pure & Applied Chem., A30(9/10), 741 (1993)
400. Jan Bartus, Peter Goman, Andres Sustic and Otto Vogl, Polymerizable and Polymer-Bound 2(2-Hydroxyphenyl)2H-Benzotriazole Type Ultraviolet

- Stabilizers, Polymer Preprints, ACS Division of Polymer Chemistry, 34 (2), 158 (1993)
401. Otto Vogl, Jan Bartus, Meifang Qin, William J. Simonsick, Jr., John D. Mitchell, Tatsuki Kitayama, Oriental Lacquers, Pacific Polymer Preprints, 3, 273 (1993)
402. Koichi Ute, Katsuo Hirose, Hiroaki Kashimoto, Hiroko Nakayama, Koichi Hatada and Otto Vogl, Haloaldehyde Polymers 63, Helix-Inversion Equilibrium of Isotactic Chloral Oligomers in Solution, Polymer J., 25(11), 1175 (1993)
405. Koichi Hatada, Koichi Ute, Hiroshi Okuda, F.W. Hein Kruger and Otto Vogl, Haloaldehyde Polymers LXII. High Resolution Solid State  $^{13}\text{C}$  NMR Spectra of Chloral and Bromal Polymers, Polymer J., 26(3), 267 (1994)
406. Otto Vogl, Jan Bartus, Meifang Qin and Peter Zarras, Molecular Architecture of Polymers, J. Macromol. Sci; Pure and Applied Chem., A31(10), 1329 (1994)
407. Jan Bartus, William J. Simonsick, Jr., Charles M. Garner, Takafumi Nishiura, Tatsuki Kitayama, Koichi Hatada and Otto Vogl, Oriental Lacquer 3: Composition of the Urushiol Fraction of the Sap of *Rhus Verniciflua*, Polymer J., 26(1), 67(1994)
410. Jan Bartus and Otto Vogl, Optical Activity Measurements in Solids 5. Optical Rotation of Natural Polymers, Polymer International, 33, 25 (1994)
411. Jan Bartus, Dexi Weng and Otto Vogl, Optical Activity Measurements in Solids 6. Solid State Optical Activity and Circular Dichroism Measurements of Sodium Thioantimonate Nonahydrate, Monatshefte, 125, 671 (1994)
412. Jan Bartus, Dexi Weng and Otto Vogl, Optical Activity Measurements in Solids 7. Polylactides and Poly( $\beta$ -Hydroxy-butyrate)s, Polymer International, 34, 433 (1994)
413. Koichi Hatada, Tatsuki Kitayama, Takatumi Nishiura, Akira Nishimoto, William J. Simonsick Jr. and Otto Vogl, Structure Analysis of the Component of Chinese Lacquer "Kuro-Urushi" (Oriental Lacquer 4), Makro. Chemie., 195, 1865 (1994)
414. Meifang Qin, Ferenc Tudos and Otto Vogl, Poly(Vinyl halides), Polymer Preprints, ACS Division of Polymer Chemistry, 35(1), 484 (1994)

415. Otto Vogl, William J. Simonsick, Jr., Jan Bartus, Meifang Qin, Koichi Ute and Koichi Hatada, Stereoregular and Conformationally Regular Oligomers and Polymers, *Makromol. Chem., Symposia*, 85, 175 (1994)
416. Otto Vogl, Jan Bartus, Meifang Qin and John D. Mitchell, Oriental Lacquer (Number 6), in *Progress in Pacific Polymer Science 3*, Kenneth P. Ghiggino ed., Springer Verlag. p.423 (1994)
417. Roland Dux, Kenneth P. Ghiggino and Otto Vogl, Photochemical Processes in a Copolymer of 2(2'-Hydroxy-4'-Methacryl-oxyphenyl)-2H-Benzotriazole and Methyl Methacrylate, *Australian Journal of Chemistry*, 47, 1461 (1994)
418. Otto Vogl, History of the Conception of the U.S.-Japan Seminar on Polymer Synthesis, *J. Macromol. Sci.,-Pure and Applied Chemistry*, A31(11), xv (1994)
419. Otto Vogl, The Rigid Single Helix, *Progress of Polymer Science*, 19(6), 1055, (1994)
420. Otto Vogl, Meifang Qin, Jan Bartus and Gary D. Jaycox, Stereospecific Polymerization and Chiral Crystallization, *J. Macromol. Sci., Pure and Applied Chemistry*, A31(11), 1501 (1994)
421. Otto Vogl, Meifang Qin, Jan Bartus and Gary D. Jaycox, Chiral Nucleation, *Monatshefte Chem.*, 126, 47 (1995)
422. Ch. Wandrey, Peter Zarras and Otto Vogl, Solution Properties of Poly(Vinyltrialkylammonium) Salts. *Acta Polymerica*, 46, 247 (1995)
423. Otto Vogl and Meifang Qin, Macromolecular Architecture and Design, Preprints, XIV. Annual Meeting, Croatia Chemical Society, p. 3, Zagreb, Croatia, 1995
424. Andres Sustic and Otto Vogl, Functional Polymers 60. Chemical Structure/Ultraviolet Spectrum Relationship of Polymerizable 2(2-Hydroxyphenyl)2H-Benzotriazoles: Synthesis of Novel 2(2-Hydroxyphenyl)2H-Benzotriazoles, *Polymer*, 36, 3401 (1995)
425. Andres Sustic, Joseph Falcetta, Christine Smith and Otto Vogl, Functional Polymers 61. Ultraviolet Spectral Behavior of Selected 2(2-Hydroxyphenyl)2H-Benzotriazoles, *J. Macromol. Sci-Pure Appl. Chem.*, A32(8&9), 1601 (1995)



426. Jan Bartus, William Simonsick jr. and Otto Vogl, Oriental Lacquers 9. Ultraviolet Stabilization of Oriental Lacquers, *Polymer J.*, 25(7), 703 (1995)
427. Meifang Qin, Jan Bartus and Otto Vogl, Stereospecific Polymerization, Chiral Initiation, Chiral Nucleation and Crystallization, *Makromol. Chem. Makromol. Symposia*, 98, 387 (1995)
428. Meifang Qin and Otto Vogl, Oriental Lacquer 8. Curing of Oriental Lacquer, *Cellulose Chemistry and Technology*, 29, 533 (1995)
429. Joachim Koetz, Heike Koepke, Gudrun Schmidt-Naake, Peter Zarras and Otto Vogl, Polyanion-Polycation Complex Formation as a Function of the Position of the Functional Groups, *Polymer*, 37(13), 2775 (1996)
430. Otto Vogl, Polymers for the 21st Century, *J. Macromol. Sci.-Pure & Appl. Chem.*, A33(7), 963 (1996)
431. Otto Vogl, Meifang Qin and John D. Mitchell, Oriental Lacquers 11. The Chemistry of Poisonous Compound of the Sap of Anacardiaceae Species, *J. Macromol. Sci.-Pure & Appl. Chem.*, A33(10), 1581 (1996)
432. Otto Vogl, Macromolecular Architecture for the 21st Century, *J. Macromol. Sci.-Pure & Appl. Chem.*, A33(10), 1571 (1996)
433. Meifang Qin, John D. Mitchell and Otto Vogl, Oriental Lacquer 10. The South Asian Lacquer, *J. Macromol Sci., Pure and Applied Chem.*, A33(12), 1791 (1996)
434. Koichi Hatada, Gary D. Jaycox and Otto Vogl, Helical Polymers and Oligomers with Molecular Dissimetry, Koichi Hatada, Tatsuki Kitayama and Otto Vogl eds, *Macromolecular Design of Polymeric Materials*, Marcel Dekker Inc., New York, pp. 181-198 (1997)
435. Gary D. Jaycox, Otto Vogl and Koichi Hatada, Rational Design of Well-Defined Polymeric Materials, Koichi Hatada, Tatsuki Kitayama and Otto Vogl, eds *Macromolecular Design of Polymeric Materials*, pp 1-14 (1997)
436. Otto Vogl, Ti Kang Kwei and Meifang Qin, Head to Head Polymers 42. Head to Head Poly(Vinyl Halide) Blends: Thermal and Degradation Behavior. *J. Macromol. Sci., Pure and Appl. Chem.*, A34(10), 1747 (1997)

437. Otto Vogl, New Polymeric Materials for Advanced Technology, Proceedings, Romanian Academy of Sciences, Seria IV, Tomul XVII 1994, p.162-190 (1997)
438. Otto Vogl and Gary D. Jaycox, Crystalline Helical Polymers, *Polimeri*, 18(3 & 4), 141 (1997), see also Macro Polymer Notes 13(11), 114 (1997)
439. Pawel Sikorski, Sharon J. Cooper, Edward D.T. Atkins, Gary D. Jaycox and Otto Vogl, Helical Conformations of Isotactic Polyaldehyde and Other Isotactic Polytrihaloacetaldehydes: Molecular Simulations, J. Polymer Sci., Polymer Chemistry Edition, 36, 1855 (1998)
440. Otto Vogl, Polyolefins: Syntheses and Structures, J. Macromol. Sci.- Pure and Appl. Chem. A35(7 & 8), 1017 (1998)
441. Jan Bartus, William J. Simonsick Jr. and Otto Vogl, Haloaldehyde Polymers 63. Di-Acyl Terminated Haloaldehyde Oligomers, J. Macromol. Sci.-Pure and Appl. Chem. A36(1), 1 (1999)
442. Peter Zarras and Otto Vogl, Polycationic salts as bile acid sequestering agents, Progress in Polymer Science, 24(3), 485 (1999)
443. Meifang Qin, Otto Vogl and Albert Zilkha, Head to Head Polymers, Progress in Polymer Science, 24(10), 1481 (1999)
444. Otto Vogl, Polypropylene: An Introduction, J. Macromol. Sci.-Pure and Appl. Chem. A36(11), 1547-1559 (1999)
445. Eberhard Borsig, Agnesa Fiedlerova, Roberto Greco, Michele Iavarone and Otto Vogl, An IPN like System with the Thermal Control of its Transparency, Preprints, San Francisco, PMSE 82, 3-4 (2000)
446. O. Vogl and G.D. Jaycox, Polymer science in the 21st century *Trends in Polymer Science* Progress in Polymer Science, 24(1), 3-6 (1999)
447. Otto Vogl, Lutz Stoeber, Andres Sustic and John Crawford, Low Molecular Weight and Polymer Bound UV Stabilizers, in *Service Life Prediction of Organic Coatings*, David R. Bauer and Jonathan W. Martin eds., ACS Symposium Series 722, pp. 298-311 (1999)
448. Jan Bartus, William J. Simonsick Jr, and Otto Vogl, Functional Polymers 63. Emulsion Copolymerization of Maleimide Type Monomers with Acrylonitrile and Styrene in ABS Latexes, J. Macromol. Sci.-Pure and Appl. Chem, A36(3), 355-371(1999)

449. P. Zarras and O. Vogl, Polycationic Salts as Bile Acid Sequestering Agents, *Progress in Polymer Science*, 24(4), 485-516 (1999)
450. Lutz Stoeber, Andres Sustic, William J. Simonsick Jr. and Otto Vogl, Functional Polymers 64,  $K^+$  IDS Mass Spectroscopy of Low Molecular Weight and Polymer-Bound Ultraviolet Stabilizers, *J. Macromol. Sci.-Pure and Appl. Chem*, A37(11), 1269-1300 (2000)
451. Lutz Stoeber, Andres Sustic, William J. Simonsick Jr, and Otto Vogl, Functional Polymers 65, Synthesis and Brief Characterization of Surface Controlled Morphology of Acrylics using 2(2-Hydroxyphenyl)2H-Benzotriazole Derivatives, *J. Macromol. Sci.-Pure and Appl. Chem*, A37(9), 943-970 (2000)
452. Otto Vogl Atiq-ur Rehman and Peter Zarras, Polycationic Salts 5.  $^{15}N$  NMR Spectra of Amines, Monomers and Polymers of Styrene Based Trialkylammonium Salts, *Monatshefte*, 131, 437-449 (2000)
453. Peter Zarras and Otto Vogl, Polycationic Salts 3. Synthesis, Characterization and Polymerization of Styrene Based Trialkylammonium Salts, *J. Macromol. Sci.-Pure and Appl. Chem*, A37(8), 817-840 (2000)
454. Peter Zarras and Otto Vogl, Polycationic Salts 4. Synthesis and Characterization of 2-Ionene Oligomer Derivatives of Styrene, *J. Macromol. Sci.-Pure and Appl. Chem*, A37(10), 1103-1120 (2000)
455. Otto Vogl, Addition Polymers of Aldehydes, *J. Polymer Sci., Polymer Chemistry Ed*, 38(13), 2293-2299 (2000)
456. Otto Vogl, Haloaldehyde Polymers and Macromolecular Asymmetry, *J. Polymer Sci., Polymer Chemistry Ed*, 38(15), 2623-2634 (2000)
457. Otto Vogl, Head to Head Polymers, *J. Polymer Sci., Polymer Chemistry Ed*, 38(22), 4013-4022 (2000)
458. Otto Vogl, Oriental Lacquer, Poison Ivy and Drying Oils, *J. Polymer Sci., Polymer Chemistry Ed*, 38(24), 4327-4335 (2000)
459. Otto Vogl and Leszek B. Kiliman, Poly(Alkylene Oxide) Ionomers. Synthesis and Brief Characterizations, *J. Macromol. Sci.- Pure and Appl. Chem*, A38(2), 91-105 (2000)
460. Otto Vogl and Leszek B. Kiliman, Poly(10,11-Epoxyundecanoic Acid), Poly

- (5,6-Epoxyhexanoic Acid) and some of their Derivatives, J. Macromol. Sci.- Pure and Appl. Chem, A38(2), 123-135 (2001)
- 461 Gyorgy Deak, Otto Vogl and Leszek B. Kiliman, Poly(10-undecenoic Acid), and some of its Derivatives, J. Macromol. Sci.- Pure and Appl. Chem, A38(3), 221-231 (2001)
- 462 Leszek B. Kiliman. Gyorgy Deak and Otto Vogl, Liquid Crystalline Polymers of Polyolefin and Poly (Oxyethylene) Derivatives J. Macromol. Sci.-Pure and Appl. Chem, A38(4), 329-352 (2001)
- 463, Otto Vogl, Isotopically Pure Uniform Polymers, Polymer Preprints, Japan (English Edition), Vol. 50(1), IIA20IL, E 6, SPSJ 50th Annual Meeting, Osaka, Japan, May 23-25, 2001, Vol. 50(1), IIA20I, p/ 37-39, SPSJ 50th Annual Meeting Osaka, Japan, May 23-25 2001.
464. Otto Vogl, Gary D. Jaycox, and William Simonsick Jr., Isotopically Pure Uniform Polymers, J. Polymer Sci., Polymer Chemistry Ed, 40(8), 923-935 (2002)
465. Otto Vogl, My Life with Polymer Science, J. Polymer Science, Polymer Chemistry Ed. Supplementary Ed 42(3), 785-819 (2004)