A Bibliography of Monographic Works

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**Introduction** This bibliography and the original work which it updates1 were compiled as an aid to students and researchers in biomaterials. Because the field of biomaterials is so diverse, pertinent information is spread across the literature of many disciplines. For that reason and because the terminology used in cataloging and indexing the information sources is both inadequate and inconsistent, it is often difficult to identify all of the relevant information available.

This bibliography includes English language books and conference proceedings published from 1974 to 1995. For those proceedings that were also published in journals, journal citations are provided as notes in the bibliography entries. Clearly not every monographic work related to biomaterials could be included in this listing. Instead, titles selected for this bibliography are primarily about (or contain sections about) the materials themselves or what happens when biomaterials are in contact with living tissues.

Entries are listed alphabetically by author or editor, or by title when authors or editors are unknown. Works with more than three authors or editors are listed with only the first name and the notation et al.

Although graduate students and researchers rely primarily on the journal literature, there is still a need for monographic works: a need which is often directly related to the interdisciplinary nature of the biomaterials field. These textbooks, collections of related papers, and scholarly treatments of narrowly defined topics are particularly useful to those just beginning to investigate the field and those who may be learned in one aspect of biomaterials but need to become more familiar with a subject area which is peripheral to their own. These bibliographies can serve as a starting point for such people and for the librarians who assist them in their search for information.

Only English language books and conference proceedings which are primarily about (or contain substantial sections about) biomaterials or biocompatibility were included. Important works which focus on closely related topics such as artificial organs and drug delivery systems, to name only two, are not included. Entries are listed alphabetically by author or editor, or by title when the authors or editors are unknown. Works with more than three authors or editors are listed with only the first name and the notation et al. The numbering of entries begins where the original bibliography ended and all three indexes cover the entire body of work, i.e., the original bibliography and this update.

**References**

• Anderson, J.M., editor. Transactions of the second world congress on biomaterials, the tenth annual meeting of the Society For Biomaterials, and the sixteenth international biomaterials symposium; April 27-May 1, 1984; Washington, DC.

  Note: Volume Vil.


  Note: Seminar notes.


  Note: symposium held July 1994, Abo Akademi University, Turku, Finland.


  Note: Sponsored by the Division of Polymer Chemistry at the 170th meeting of the American Chemical Society, Chicago, IL, August 27-28, 1975.


  Note: Conference held August 31-September 4, 1993, Sunshine City, Ikebukuro, Tokyo, Japan. Symposia: N Biomaterials; O catalytic materials; Q Ordered polymers; R Photo- and electro-responsive materials; T biosensors; EE Construction and functions of organic thin films; FF Intelligent materials.


  Note: Workshop on Biocompatibility in Hemodialysis, held in Bernried, Germany, March 18-20, 1982.


  Note: Based on papers presented at the 26th Annual Scientific Conference of the Biological Engineering Society, September 23-26, 1986 at the University of Strathclyde, Glasgow.


  Note: This European intensive course took place at Povoa do Varzim, Portugal, Sept. 12-16, 1988.


• Beard, R. B., editor. Transactions of the seventh annual meeting of the Society For Biomaterials in conjunction with the thirteenth international biomaterials symposium; May 28-31, 1981; Rensselaer


  *Note: Papers of one of a six part program held at the Symposium on Medical Applications of Lasers and Optics, January 16-17, 1989, Los Angeles, CA.*


  *Note: Based on the Consensus Development Conference on the Clinical Applications of Biomaterials held at the National Institutes of Health, Bethesda, MD, November 1-3, 1982.*


  *Note: Sections and section editors: Physiological Systems, R. Plonsey; Bioelectric Phenomena, C.S. Henriquez; Biomechanics, D.J. Schneck; Biomaterials, J.B. Park; Biomedical Sensors, M.R. Neuman; Biomedical Signal Analysis, B. Onaral; Imaging, K.M. Mudry; Medical Instruments and Devices, W.W. von Maltzahn; Biological Effects of Non-ionizing Electromagnetic Fields, C. Polk; Biotechnology, M. Yarmush; Tissue Engineering, B. Palsson and J.A. Hubbell; Prostheses and Artificial Organs, P.M. Galletti; Rehabilitation Engineering, C.J. Robinson; Human Performance Engineering, G.V. Kondraske.*


Note: Based on the Chicago AIChE Biomaterials Symposium, sponsored by the Materials Engineering and Sciences Division and the Committee on Fundamentals of Life Sciences of the American Institute of Chemical Engineers at their 73rd Annual Meeting in Chicago, IL, November, 1980.

- **Craig, R. G.**, Program Chairman. Transactions: ninth annual meeting of the Society For Biomaterials, in conjunction with the fifteenth international biomaterials symposium; April 27-May 1, 1983; Birmingham, AL: The Society; 1983. 149 pages.
  *Note: Volume VI.*

  *Note: Volume X.*


  *Note: Papers originally presented at a symposium sponsored by the Vascular Surgical Service of the Englewood Hospital and the College of Medicine and Dentistry of New Jersey in 1978.*

  *Note: Based on the proceedings of the Bone-Biomaterial Interface Workshop held in Toronto, Ontario, Canada, December 3-4, 1990.*

  *Note: Proceedings of a workshop sponsored by the Commission of the European Communities: contains material based on edited lectures presented at an advanced course on biomaterials held in Siena, Italy, April, 1987.*

  *Note: Papers from meetings held at The Hague, May 18-20, 1984, and Siena, Italy, March 28-30, 1985; sponsored by the Commission of the European Communities as advised by the Committee on Medical and Public Health Research and the Committee on Bioengineering Evaluation of Technology Transfer and Standardization.*


  *Note: International symposium.*

  *Note: Proceedings of an International Symposium on Polymer Gels.*


  Note: Vol. 1 Ionic polymers/Ordered polymers for high performance materials/Biomaterials; Senior editors, Hideki Aoki, et al.


  Note: Papers presented at the Engineering Foundation Meeting on Bioceramics; meeting sponsored by the Society For Biomaterials, the European Society For Biomaterials, and the Japanese Society For Biomaterials.


  Note: Developed from a symposium sponsored by the Division of Polymer Chemistry at the 200th National Meeting of the American Chemical Society, August 26-31, 1990, Washington, DC.

  Note: Advances in polymer science - Fortschritte der hochpolymeren-forschung.

  Note: Includes: Protein adsorption and materials biocompatibility: a tutorial review and suggested hypotheses, J. D. Andrade and V. Hlady; Medical polymer adhesives, T. E. Lipatova.


  Note: Proceedings based on an American Chemical Society Symposium on Applications of NMR in Biopolymers, held September 25-28, 1988, in Los Angeles, CA, and an American Chemical Society
Symposium on Recent Developments in NMR Spectroscopy of Carbohydrates, held June 5-8, 1988, in Toronto, Ontario, Canada.


Note: proceedings of the Biomedical and Biological Applications of Ceramics and Glass Symposium, presented at the 96th Annual Meeting of the American Ceramic Society, held April 25-27, 1994, in Indianapolis, IN and the Workshop on Ceramics for Biomedical Applications, held June 8-10, 1994, in Alfred, NY.


Note: Contributions from the First International Symposium on Piezoelectricity in Biomaterials and Biomedical Devices held in Pisa in 1983; includes articles previously published in various volumes of Ferroelectrics and other sources.


Note: Proceedings of a symposium on advances in biomedical polymers. held September 8-15, 1985 at the 190th National American Chemistry Society Meeting in Chicago; sponsored by the Division of Polymeric Materials: Science & Engineering.


Note: Based on the proceedings of the American Chemical Society Symposium on Enzyme Mimetic and Related Polymers, held at the Third Chemical Congress of North America, July 5-8, 1988, Toronto, Ontario, Canada.


Note: Based on a symposium sponsored by the Division of Organic Coatings and Plastics Chemistry at the 185th meeting of the American Chemical Society, Seattle, WA, March 20-25, 1983.


Note: Proceedings of a symposium.

Note: Proceedings of an American Chemical Society Symposium on Progress in Biomedical Polymers, held September 25-30, 1988, in Los Angeles, CA; derived from a symposium held during the 196th National Meeting of the ACS.

  Note: Based on an American Chemical Society Symposium on Biomedical and Dental Applications of Polymers, 179th National Meeting of the ACS, March 23-28, 1980, Houston, TX.


  Note: Developed from a symposium sponsored by the Division of Cellulose, Textile, and Paper Chemistry at the 199th National Meeting of the American Chemical Society, Boston, MA, April 22-27, 1990.

  Note: Proceedings from the Symposium on Polymeric Materials and Pharmaceuticals for Biomedical Use presented April 4-6, 1979 at the First Joint Congress of the American Chemical Society and the Chemical Society of Japan in Honolulu, HI. Contents include Chemical, Physical, and Mechanical Aspects of Blood Compatibility by D. I. Lyman and K. Knutson.


  Note: Proceedings of a symposium held by the American Chemical Society, Division of Organic Coatings and Plastics Chemistry in Chicago, IL, August, 1973.


  Note: Papers presented at Symposium M: Biomedical materials and devices held November 30-December 4, 1987, Boston.


  Note: Organized by the Biological Engineering Society-Biomaterials Group in association with the British Ceramics Society and the European Society For Biomaterials.


  Note: Proceedings of a conference organized by the Biomaterials Group of the Biological Engineering Society, in conjunction with the British Ceramic Society and the European Society For Biomaterials, Keele University, September, 1978.


  Note: Proceedings of a NATO Advanced Research Workshop on Biological Incidences of Co-Cr-Ni Alloys Used in Orthopaedic Surgery and Stomatology. September 30-October 4, 1985, Bischenberg, Obernay, France.


  Note: papers presented at a symposium sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices in Miami, FL on November 17, 1992.

  Note: Sponsored by the University of Colorado at Colorado Springs and Toxic Element Research Foundation.

  Note: Co-sponsored by the Society For Biomaterials, the Canadian Society For Biomaterials, the European Society For Biomaterials, the Japanese Society for Biomaterials, and the Japanese Society of Orthopaedic Ceramic Implants.

  Note: Also issued as J. Biomed. Mater. Res. 8 (3-4).

  Note: First International Biomaterials Symposium, Clemson University, 1969.

  Note: Includes: Modification of biologically active substances for biocompatible materials; Biocomposite materials for drug delivery systems; Modification of proteins for synthesizing biofunctional materials.

  Note: contains papers presented at the symposium sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices, held November 6, 1991, San Diego, CA.

Note: Symposium sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices and Subcommittee F0-04 on Cardiovascular Implants and Materials. Food and Drug Administration, International Center for Artificial Organs and Transplantation, and Department of Health and Human Services. Includes sections entitled: Material properties, measurements, test methods, and retrieval analysis; Biocompatibility issues in vascular grafts.

  Note: papers presented at the symposium, held in Pittsburgh, PA, May 5-6, 1992.

  Note: Trans. of Knochenregeneration mit Knochenersatzmaterialien.


- **Knutson, K.,** Program Chairman. Transactions: twelfth annual meeting of the Society For Biomaterials, in conjunction with the eighteenth international biomaterials symposium; May 28-June 1. 1986; Minneapolis, MN. Birmingham, AL: The Society; c1986. 230 pages.
  Note: Volume IX.

  Note: proceedings of the NATO Advanced Study Institute on Materials Science and Implant Orthopaedic Surgery II; held June 19-July 2, 1994, Chania, Crete, Greece.

  Note: Proceedings of the NATO Advanced Study Institute on Applications of the Materials Sciences to the Practice of Implant Orthopedic Surgery; includes Surface and interfaces phenomena.

  Note: symposium sponsored by the Corrosion Division and the Organic and Biological Electrochemistry Division of the Electrochemistry Society; held May 1994, San Francisco, CA.


  Note: Proceedings of the Johnson & Johnson symposium, July 11-12, 1974, Morristown, NJ.

  Note: Selected reprints from Encyclopedia of polymer science and engineering.

  Note: Sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices, and ASTM Committee B-10 on Reactive and Refractory Metals and Alloys.

Note: Based on papers presented at the Second European Conference on Biomaterials, organized by the European Society For Biomaterials.


  
  Note: Symposium sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices.

  
  Note: Based on a conference held by the New York Academy of Sciences on November 12-14, 1986, New York.


  
  Note: Also known as CRC Handbook of materials science; Vol. 1. General properties: Vol. 2. Metals, composites, and refractory materials; Vol. 3 Nonmetallic materials and applications includes Section 4: Biomedical Materials; Vol. 4 Wood.


- **Medical prosthetic implants.** New York: Frost & Sullivan; 1980. 236 pages.


  
  Note: Selected papers from the 4th International Conference on Polymers in Medicine, September 11-13, 1990, Riva del Garda. Italy and sponsored by Universita di Trento, Provincia di Trento, Societa Italiana Biomateriali. Reprinted from the J. Clin. Mater. 8 (1, 2).

  
  Note: 1993 MRS Fall Meeting, Boston, MA; symposium held November 29-December 1.

  

  
  Note: Based on papers presented at a workshop held in Patras. Greece. June, 1989.


  Note: E-MRS; Council of Europe, European Parliament, Commission of the European Communities.
  Note: Reprinted from Clin. Mater. 5 (2-4).
  Note: Based on the Implant Bone Interface Symposium, May, 1989, Midhurst, UK; sponsored by Charles F. Thackray Ltd.
  Note: Selected papers from the 4th International Conference on Polymers in Medicine, Sept. 11-13, 1990, Riva del Garde, Italy.
• Parsons, J. R., Program Chairman. Transactions of the seventeenth annual meeting of the Society For Biomaterials in conjunction with the 23rd international biomaterials symposium; May 1-5, 1991; Scottsdale, AZ. Algonquin, IL: Society For Biomaterials; 1991. 326 pages.
  Note: Volume XIV.
  Note: Fifth in series of Strathclyde bioengineering seminars, September, 1983.
  Note: Proceedings of the NATO Advanced Study Institute on Biopolymers.
  Note: Conference sponsored by the European Society for Biomaterials.


Note: Proceedings of the third International ITV Conference on Biomaterials.

Note:Proceedings of the International Colloquium, Polyurethane in Medical Technics, organized by the Biomedical Branch of the Institute for Textile Technology and Chemical Engineering, Denkendorf, West Germany, January 27-29, 1983, in Fellbach, near Stuttgart.


Note: Edited version of the proceedings of the International Symposium on Biomaterials in Orthopaedics, held at the Institute of Technology, Banaras Hindu University, Varanasi, India, February 11-12, 1989.


• Ratner, B. D., Program Chairman. Transactions of the eleventh annual meeting of the Society For Biomaterials in conjunction with the seventeenth international biomaterials symposium; April 24-28, 1985; San Diego, CA. 
Note: Volume VIII.

Note: Organized by the IRTEC-CNR Institute in collaboration with Agenzia Polo Ceramico.


Note: Supplement 33, 94 (2), part 2, February 1984.


Note: Papers presented at a one-day symposium during the 1980 meeting of the International Committee on Thrombosis and Haemostasis, held in Boston.


  Note: Proceedings of the Third International Conference on Synthetic Microstructures in Biological Research, September 9-12, 1991, Williamsburg, VA.

  Note: Proceedings of a Symposium on Polymers as Biomaterials, March 22-25, 1983, American Chemical Society Meeting, Seattle, WA.

  Note: developed from a symposium sponsored by the Division of Polymer Chemistry at the 204th National Meeting of the ACS, August 24-28, 1992, Washington, D.C.


  Note: Proceedings of a workshop.


  Note: Thirty-fourth symposium of the Society for Experimental Biology held at Leeds University, September 4-6, 1979.

- Spector, M., Program Chairman. Transactions of the fifteenth annual meeting of the Society For Biomaterials; April 28-May 2, 1989; Lake Buena Vista, FL.
  Note: Volume XII.

- Spector, M., editor. Transactions of the eighth annual meeting of the Society For Biomaterials: in conjunction with the fourteenth international biomaterials symposium; April 24-27, 1982; Orlando, FL:
The Society; c1982. 1 vol.

Note: Volume V.

  
  Note: meeting held November 10-12, 1992, Rimini.

  
  Note: seminar notes prepared for attendees.

  
  Note: seminar notes prepared for attendees.

  
  Note: Seminar notes.


  
  Note: Sponsored by ASTM Committee F-4 on Medical and Surgical Materials and Devices and ASTM Committee G-1 on Corrosion of Metals.

  
  Note: Sponsored by the Society of Plastics Engineers, Inc.


  
  Note: Seminar notes.

  
  Note: Seminar notes.


  
  Note: papers from the Workshop on Titanium Biomaterials, held at the Fairways Motor Inn, Wollongong, NSW, July 9-10, 1991, following the Second Annual Meeting of the Australian Society For Biomaterials.

  
  Note: constituent societies: Canadian Biomaterials Society, European Society For Biomaterials,
Japanese Society For Biomaterials, and Society For Biomaterials (USA); congress held at International Congress Center, Berlin, Germany, April 24-28, 1992.

  

- **Transactions of the nineteenth annual meeting of the Society For Biomaterials,** U.S.A., in conjunction with the 25th International Biomaterials Symposium; April 28-May 2, 1993; Birmingham, AL. Minneapolis, MN: Society For Biomaterials; 1993.
  
  *Note:* Transactions of the Society For Biomaterials, vol. XVI.

  
  *Note:* Meeting and symposium sponsored by the National Institutes of Health and other similar bodies.

- **Transactions:** third world biomaterials congress: in conjunction with the fourteenth annual meeting of the Society For Biomaterials, U.S.A., the twentieth international biomaterials symposium, the ninth annual meeting of the Canadian Biomaterials Society, the eight European conference on biomaterials, the tenth annual meeting of the Japanese Society For Biomaterials; April 21-25, 1988; Kyoto, Japan. Bunkyo-Ku: Business Center for Academic Societies; 1988. 612 pages. ISBN: 4-93-081325-5.
  
  *Note:* Biomaterials 88, transactions volume XI.

- **Transactions of the twentieth annual meeting of the Society For Biomaterials,** U.S.A., in conjunction with the 26th International Biomaterials Symposium; April 5-9, 1994; Boston, MA. Minneapolis, MN: Society For Biomaterials; 1994.
  
  *Note:* Transactions of the Society For Biomaterials, vol. XVII.

  


  


  


  Note: Contributions presented at the 2nd BIOSIMP, a special session of the fifth International Meeting on Modern Ceramics Technologies.

  Note: Organized as a satellite symposium of the World Congress on High Tech Ceramics, the sixth International Meeting on Modern Ceramics Technologies (6th CIMTEC).


• von Recum, A. F., Program Chairman. Transactions of the sixteenth annual meeting of the Society For Biomaterials in conjunction with the twenty-second international biomaterials symposium; May 20-23, 1990; Charleston, SC. Birmingham, AL: Society For Biomaterials; 1990. 321 pages.
  Note: Volume XIII.

  Note: The result of a conference held by the New York Academy of Sciences, and co-sponsored by the Columbia University Seminar on Biomaterials, March 24-26, 1976.

  Note: Based on symposium of the same name held in Marienlyst, Helsingor, Denmark, August 30-September 1, 1989.


  Note: Sponsored by: NBS, FDA, NHLBI, NIAMDD, NIHR, VA, and ASTM; Includes: Release phenomena and interface phenomena; S/N 003-003-02292-6; Item 0247.

  Note: Proceedings of the second Biomaterials Symposium on the subject of UHMW-PE as a Biomaterial in Orthopedic Surgery held in March 1986; organized by the Working Group for Biomaterials of the German Society for Orthopedics and Traumatology.

  Note: Congress held in conjunction with the twelfth International Biomaterials Symposium and the sixth Annual Meeting of the Society For Biomaterials.

  Note: Based on papers presented at the first European Conference on Biomaterials, held in Strasbourg, September, 1977, organized by the European Society For Biomaterials.


  Note: Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, San Francisco, CA, December 1-15, 1989; jointly sponsored by the Bioengineering Division(s) of the American Society of Mechanical Engineers and the Japan Society of Mechanical Engineers.

  Note: Sponsored by the National Institute of Dental Research, National Institutes of Health.

• **Yamamuro, T.,** editor. Treatise on biomedical materials 1: proceedings of the lst international Kyoto symposium on biomedical materials; November 12, 1983; Kyoto, Japan. Kyoto, Japan: Research Center for Medical Polymers and Biomaterials at Kyoto University; 1985. 164 pages.

  Note: Vol. 1. Bioactive glasses and glass-ceramics; Vol. 2. Calcium phosphate and hydroxylapatite ceramics.

  Note: Symposium on Biological Interactions at Polymer Surfaces organized as part of the Symposium on Reactions at Polymer Surfaces at the Annual Meeting of the American Chemical Society, August 26, 1975, Chicago, IL.