CURRICULUM VITAE

Personal

Name: Bora Garipcan Date of Birth: November 9, 1975 Birth of Place: Adana, Turkey Citizenship: Republic of Turkey Mobile: +90 535 6494777 Email: bgaripcan@gmail.com

EDUCATION

09/2001-07/2008	Philosophy of Doctorate in Bioengineering, Hacettepe		
	University, Faculty of Engineering, Department of Chem.		
	Engineering, Bioengineering Division, Ankara, Turkey.		
09/1999-09/2001	Master of Science in Chemistry/Biochemistry Division,		
	Hacettepe University, Faculty of Science, Department of		
	Chemistry, Ankara, Turkey.		
09/1994-08/1999	Bachelor Science of Chemistry, Hacettepe University, Facul		
	of Science, Department of Chemistry, Ankara, Turkey.		
09/1986-06/1993	High School, Science Section, Private Adana High School,		
	Adana, Turkey (Secondary and High School Integrated).		
09/1981-06/1986	Elementary School, Ismet Inonu Elementary School, Adana,		
	Turkey.		

EMPLOYMENT

07/2011	Assistant Prof. Dr. Boğaziçi University, Institute of Biomedical Enginnering, Kandilli Campus, Çengelköy, Istanbul, Turkey
05/2009-08/2009	Post Doctoral Fellow, Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany (A joint project with Department of General, Visceral and Vascular Surgery, University Hospital Jena, Germany)
08/2008-04/2009	Marie Curie Post Doctoral Fellow, Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany
12/2001-06/2008	Teaching Assistant, Hacettepe University, Department of Chemical Engineering, Bioengineering Division.
02/2001-06/2001	Teaching Assistant, Başkent University. Faculty of Engineering, Department of Biomedical Engineering.

RESEARCH EXPERIENCE

Post Doctoral Fellow, Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany, A joint project with Department of General, Visceral and Vascular Surgery, University Hospital Jena, Germany (05-08/2009)

Marie Curie Post Doctoral Fellow, Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany (08/2008-04/2009)

Visiting Scholar, Drexel University, Department of Materials Science and Engineering, Philadelphia, USA (June-July 2007).

Visiting Scholar, Drexel University, Department of Materials Science and Engineering, Philadelphia, USA (Sep 2005-Sep 2006).

TEACHING EXPERIENCE

Assistant Prof. Dr, Institute of Biomedical Engineering, Boğaziçi University, Kandilli, Istanbul, Turkey, Course BM 519 Biosensors, BM 589 Biomedical Nanostructures (09/2010-Current).

Mentor, Annual Work, Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany, 2009.

Teaching assistant at General Chemistry Laboratory at Hacettepe University, Faculty of Science, Department of Chemical Engineering, 2004-2005/2007-2008.

Mentor, Sensors Project, Drexel University, Department of Materials Science and Engineering, Philadelphia, USA, 2006.

Teaching assistant at Biochemistry Laboratory (CHEM-317) at Hacettepe University, Faculty of Science, Department of Chemistry, 2000-2007.

Teaching assistant at General Chemistry Laboratory and Organic Chemistry at Başkent University, Faculty of Engineering, 2001.

CONFERENCES

16th International Biomedical Science & Technology Symposium (BIOMED 2010), 29 September- 2 October 2010, Istanbul, Turkey.

Ellipsometry based sensor surfaces for oligonucleotide and oligopeptide probes

Bora Garipcan, Mustafa O. Cağlayan, Gökhan Demirel, Özlem K. Nazlı, Burcu Çelen, Burcu Otman, Erhan Pişkin EMBO Young Scientists Forum, Boğaziçi University, 20-22 February, 2008, Istanbul, Turkey.

Silicon nanowires as a potential tissue support constructs Part I: B. Garipcan, S. Odabas, G. Demirel, K.D. Jandt, J.E. Spanier, E. Piskin

Plasma Decontamination: Plasma Assisted Decontamination of Biological and Chemical Agents, NATO (ASI), 16-26 September, 2007, Çeşme, Turkey.

Electron Plasma for High Speed, High Sensitivity Detection. Bahram Nabet, Eric Gallo, Jonathan Spanier, Adriano Cola, Fabio Quranta, Bora Garipcan, Erhan Pişkin

3rd National Affinity Techniques Congress, September 12-14, 2007, Bursa, Turkey.

Applications of Si Nanostructures as Biosensors (Invited Speaker) Bora Garipcan, Bahram Nabet, Jonathan E. Spanier, Erhan Pişkin

NanoTR3 Nanoscience and Nanotechnology Conference, June 11-14, 2007, Ankara, Turkey.

Conductive-AFM Nanolithography on Alkene-silane Modified Si Wafers (Oral Presentation). Bora Garipcan, Erhan Pişkin, Stephan Nonnenmann, Eric Gallo, Jonathan Spanier, Bahram Nabet

Protein Chip Application by Multiple-Step Process Based on a Self-Assembly Approach Gökhan Demirel, Mustafa Oğuzhan Çağlayan, Bora Garipcan, Erhan Pişkin

Self-Assembly Mechanism of Organic Molecules on Si(001) Gökhan Demirel, Mustafa Oğuzhan Çağlayan, Bora Garipcan, Erhan Pişkin

Plastic, Reconstructive and Aesthetic Surgery, Stem Cell and Tissue Engineering Symposium,

10-12 May, 2007, Samsun, Turkey (Participant).

COST B28 Meeting, April 20-22, 2007, Plovdiv, Bulgaria.

Patterning and Immobilization Techniques for Array Platforms/Technologies.

Erhan Piskin, Bora Garipcan, Gokhan Demirel, Memed Duman, Oguzhan Caglayan, Sinan Egri

8th Drexel University's Research Day, April 17, 2007, Philadelphia, USA.

On the near-field and far-field electromagnetic scattering from functionalized silicon nanocones and nanowires.

Alia Sabur , Linyou Cao , Bora Garipcan , Eric Gallo , Stephen Nonnenmann , Bahram Nabet , Jonathan Spanier

Instability and Transport of Metal Catalysts in the Growth of Tapered Silicon Nanowires

Jennifer Atchison , Linyou Cao , Bora Garipcan , Ghaoying Ni , Bahram Nabet , Jonathan Spanier

MRS Fall Meeting, Symposium L, Group IV Semiconductor Nanostructures, November 27-

December 1, 2006, Boston, MA, USA.

Instability and Transport of Metal Catalyst in the Growth of Silicon Nanostructures.

Jennifer Atchison , Linyou Cao , Bora Garipcan , Ghaoying Ni , Bahram Nabet , Jonathan Spanier

XV INTERNATIONAL MATERIALS RESEARCH CONGRESS, August 22-26, 2006, Cancun, Mexico.

Synthesis and Characterization of Nano-Scaled Semiconductor and Metal Ferroelectric Hybrid Nanostructures.

Stephen S. Nonnenmann, Rahul S. Joseph, Linyou Cao, Eric M. Gallo, Bora Garipcan, Bahram Nabet and Jonathan E. Spanier

7th **Drexel University's Research Day**, April 25, 2006, Philadelphia, USA.

Ordered Arrays of Silicon Nanowires by Conductive AFM Nanolithography.

Bora Garipcan, Erhan Piskin, Stephan Nonnenmann, Eric Gallo, Cristian Staii, Bahram Nabet, Jonathan Spanier

Semiconductor Nanocones and Nanowires: Shedding Light on an Expanding Role of Silicon in Photonics

Linyou Cao, Bora Garipcan, Cristian Staii, Stephen S Nonnenmann, Lee Laim, Eric Gallo, Bahram Nabet, Jonathan E Spanier

1st National Affinity Techniques Congress, June 22-24, 2005 Eskişehir, Turkey.

Interaction of Hg²⁺ ions with Glutamc Acid incorporated PHEMA Microspheres Bora Garipcan, Rıdvan Say, Abdülkerim Karabakan, Süleyman Patır, Adil Denizli

11th International Biomedical Science and Technology Days, September 6-10, 2004 Ankara, Turkey.

A Novel Magnetic Adsorbent for Immunoglobulin-G Purification in MSFB (Oral Presentation).

Serpil Özkara, Bora Garipcan, Sinan Akgöl, Yalçın Çanak, Adil Denizli

Phenylalanine Containing Hydrophobic Adsorbents for Lysozyme Purification

Şerife Öncel, Lokman Uzun, Bora Garipcan, Adil Denizli

5th National Chromatography Symposium, June 30- July 2, 2004, Eskişehir, Turkey.

Antibody Purification by Pseudospesific Affinity Adsorbents Serpil Özkara, Bora Garipcan, Erhan Pişkin, Adil Denizli

10th Biomedical Science and Technology Symposium, October 9-12 2003, Girne, Turkish Republic of Northen Cyprus.

Determination of the effects of temperature and pH sensitive polycations carrying $Cu^{2+}/1,4,8,11$

tetraazacyclotetradecane complex on tumor cell lines.

Murat Demirbilek, Bora Garipcan, Erhan Pişkin,

A Novel Metal Chelate Affinity Adsorbent for Purification of Immuniglobulin G from Human Plasma Adil Denizli, Murat Alkan, Bora Garipcan, Serpil Özkara, Erhan Pişkin

4th National Chromatography Symposium, September 17-19 2003, Ankara, Turkey.

Preparation of Metal Chelate Affinity Adsorbents for IgG Purification. Adil Denizli, Murat Alkan, Bora Garipcan, Serpil Özkara, Erhan Pişkin XXXth European Society for Artificial Organs (ESAO) Congress "High Tech & Medicine" September 3-6 2003, Aachen, Germany.

Pseudospecific ligands used in bioaffiny separation. Serpil Özkara, Bora Garipcan, Adil Denizli, Erhan Pişkin,

27th Symposium on High Performance Liquid Phase Separations and Related Techniques, June 15-19 2003, Nice, France.

Poly(Styrene-hydroxyethylmethacrylate) monodisperse microspheres for high performance dye-affinity separation of albumin.

Lokman Uzun, Handan Yavuz, Mehmet Odabaşı, Sinan Akgöl, Serpil Özkara, Bora Garipcan, Müge Andaç, Adil Denizli

MBCAC 4th Mediterranean Basin Conference on Analytical Chemistry, September 15-20, 2002, Portoroz, Slovenia.

Novel Chelating Adsorbents for Heavy Metal Removal: Poly(hydroxyethyl methacrylatemethacrylamidocysteine).

Bora Garipcan, Handan Yavuz, Rıdvan Say, Adil Denizli

3rdNational Chromatography Symposium, June 19-21 2002, Süleyman Demirel University, Isparta, Turkey.

Preparation and characterization of novel pseudospecific ligand containing chromatographic support for the purification of antibodies (Oral Presentation).

Bora Garipcan, Serpil Özkara, Süleyman Patır, Adil Denizli

Methacryloylamidocysteine functionalized Cu²⁺ incorporated poly(2-hydroxyethyl methacrylate) beads and its design as a metal-chelate affinity support for human serum albumin adsorption.

Müge Andaç, Bora Garipcan, Süleyman Patır, Adil Denizli

Europolymer Congress, July 15-20, 2001, EPF 2001, Eindhoven University of Technology, Eindhoven, Netherlands.

Synthesis and characterization of p(hydroxyethylmethacrylate-co methacrylamidohistidine) beads for heavy metal removal from aqueous solutions.

Handan Yavuz, Rıdvan Say, Bora Garipcan, Süleyman Patır, Adil Denizli

2ndNational Chromatography Symposium June 6-8 2001, Kırıkkale University, Kırıkkale, Turkey.

Preparation and characterization of newly synthesized amino acid based metal-complexing-ligand containing PHEMA beads for heavy metal removal from aqueous solutions. Ridvan Say, Bora Garipcan, Sibel Emir, Süleyman Patır, Adil Denizli

Preparation and characterization of pseudospesific amino acid ligand containing chromatographic support metarials

Bora Garipcan, Lokman Uzun, Müge Andaç, Süleyman Patır, Adil Denizli

Methacryloamidohistidine in affinity ligands for immobilized metal-ion affinity chromatography of human serum albumin.

Mehmet Odabaşı, Bora Garipcan, Semir Dede, Süleyman Patır, Adil Denizli

7th International Biomedical Science and Technology Symposium, September 25-28, 2000, Hacettepe University, Ankara, Turkey.

Lysozyme adsorption on amino acid incorporated membranes.

World Polymer Congress, IUPAC Macro 2000, 38th Macromolecular IUPAC Symposium, July 9-14 2000, Polish Chemical Society, Center of Molecular and Macromolecular Studies, Lodz and Warsaw University of Technology, Warsaw, Poland.

Monosize and Non-porous P(HEMA-co-MMA) Microparticles for Metal-Chelate Affinity Separation of Proteins.

Adil Denizli, Handan Yavuz, Bora Garipcan, Serpil Özkara, Yakup Arica, Erhan Pişkin

1stNational Chromatography Symposium June 16-18 1999, Kırıkkale University, Kırıkkale, Turkey (Participant).

5th National Biomedical Science and Technology Symposium December16-18 1998, METU, Ankara, Turkey (Participant).

INTERNSHIP

Hacettepe University, Faculty of Science, Department of Chemistry, Biochemistry Division, July-August, 1998.

LABORATUARY TECHNIQUES

- UV-Visible spectrophotometer
- FTIR, FTIR-ATR
- Spectrofluorophotometer
- Ozone generator
- Goniometer
- Quartz Crystal Microbalance System (QCM)
- Ellipsometry/Surface Plasmon Resonance (SPR) Biosensor (**Nanofilm EP**³)
- Atomic Force Microscope (AFM) (Ambios, Asylum Research, NANOSURF, DI Multimode)
- Scanning Electron Microscope (SEM) (AMRAY, FEI/Phillips XL30)
- Chemical Vapor Deposition System (CVD) (Atomate)
- Thermal Evaporator (NANOVAC)
- Confocal Laser Microscope (Leica, Zeiss)

SEMINARS AND COURSES

TUBA II. Stem cell Course and Symposium, 24-25 June 2011, Ankara, Turkey.

"EXPERTISSUES""Novel Therapeutic Strategies for Tissue Engineering of Bone and Cartilage Using Second Generation Biomimetic Scaffolds" EU FP-6 Project, Training Course on "CRANIO-MAXILLOFACIAL ANIMAL MODELS", 28-31 July, Ankara, Turkey.

QCM, SPR/ellipsometer & AFM as novel Biosensors & Imaging Systems, FEBS Practical Course, 22-29 June, 2008, Ankara, Turkey.

Plasma Decontamination: Plasma Assisted Decontamination of Biological and Chemical Agents, NATO (ASI), 16-26 September, 2007, Çeşme, Turkey.

Training on AFM Nanolithography, (NANOSURF) April, 24-26, 2006, Basel, Switzerland.

Dynamics of Complex Interconnected Biosensor Systems: Networks and Bioprocesses, NATO-ASI, April 11-21, 2005, Geilo, Norway. NATO (ASI)

From Cells to Proteins: Imaging Nature across Dimensions, NATO-ASI, September 12-23, 2004, Pisa, Italy

EMBO/FEBS Workshop on AFM Applications in Biology, July 7-9 2004, Instituto Gulbenkian de Ciência, Oeiras, Portugal.

Advanced Practical Course on The Design and Building of Quartz Crystal Microbalance (QCM) Biosensors, June 20-27, 2004, Ankara, Turkey.

Training on Imaging Ellipsometry and Surface Plasmon Resonance (SPR), June 7-8, 2004, Göttinggen, Germany.

Affinity Separations in Biotechnology, Advance course by Prof. Igor Galaev, November 3-5, 2003, Hacettepe University, Ankara, Turkey.

Laser Processing of Biological Tissues and Biocompatible Materials, NATO-ASI, 23 September-2 October, 2003, Crete, Greece.

Graduate Summer School for Basic and Modern Techniques in Biochemistry, 27 August-3 September, 2000, Ege University and Berlin Technical University, Aydın, Turkey.

REPORTS AND THESIS

Philosophy of Doctorate thesis:

Preparation and Use of Single and Multichannel Ellipsometry Based Sensor Surfaces Carrying Oligonucleotide and Oligopeptide Probes

Master of Science thesis:

Histidine incorporated pseudo-specific affinity sorbents for separation of human-immunoglobulin-G from human plasma.

BOOKS/BOOK CHAPTERS

Denizli, A., Denkbaş, E.B., Yavuz, H., Akgöl, S., Odabaşı, M., **Garipcan, B.,** Özkara, S., **Biochemistry Laboratory**, Hacettepe University, Faculty of Science, Department of Chemistry, Ankara, 2000.

Bora Garipcan and Adil Denizli, N-methacryloyl-(L)-glutamic Acid Incorporated Porous Poly (2hydroxyethyl Methacrylate) Beads for Hg²⁺ Removal, Advances in Chemistry Research, Edited by Francois L. Gerard, Nova Publishing, Vol 1, **2004**.

Pişkin, E., Garipcan, B., Duman, M., Probe Immobilization Techniques in Array Technologies, **Detection of Highly Dangerous Pathogens,** Kostic, Tanja; Butaye, Patrick; Schrenzel Jacques, Editors, Microarray Methods for BSL 3 and BSL 4 Agents, Wiley-VCH; **2009**.

Pişkin, E., **Garipcan, B.,** Gökhan, D., Çağlayan, O., Patterning Techniques for Array Platforms, **Detection of Highly Dangerous Pathogens,** Kostic, Tanja; Butaye, Patrick; Schrenzel Jacques, Editors, Microarray Methods for BSL 3 and BSL 4 Agents, Wiley-VCH; **2009**.

Garipcan B., Caglayan M.O., Demirel G., " A new generation Biosensors Based on Ellipsometry" in Biosensors for Health, Environment and Biosecurity, Intech Publishing Group, 2011, Chapter 9, 197-214. (ISBN: 978-953-307-448-1).

PROJECTS

Imaging Endothelial Structure of Arterial Blood Vessels Institute of Materials Science and Technology (IMT) Friedrich-Schiller-University Jena, Germany (A joint project with Department of General, Visceral and Vascular Surgery, University Hospital Jena) **Research Scientist.**

Solitech (Biological applications of Soft Lithography, FP6-14084, EU project) Research Scientist

Alternative Nanochips for Pathogenic Bacteria, TUBITAK, Research scientist.

Monoclonal Antibody production and applications Scientific Research Council, Hacettepe University (02G101), **Research scientist.**

Preparation of bioaffinity sorbent for purification of proteins, Scientific Research Council, Hacettepe University (0102601012), **Research scientist**.

Al(III) ion removal from dialysis solutions by Alizarin Red immobilized magnetic PHEMA Microbeads, Scientific Research Council, Hacettepe University, **Research scientist**.

Synthesis and Characterization of Poli(HEMA-MAC) Monolithic Materials for Cu(II) ion removal, Scientific Research Council, Hacettepe University, **Research scientist.**

Histidine incorporated pseudo-specific affinity sorbents for separation of human-immunoglobulin-G from human plasma Scientific Research Council, Hacettepe University (0101704001), **Research scientist.**

Removal of cholesterol from human plasma with anti-LDL antibody immobilized membranes, TUBITAK, TBAG-1992 (100T123), **Research scientist.**

Removal of cholesterol from human plasma with anti-LDL antibody attached PHEMA microspheres, Scientific Research Council, Hacettepe University (01 G 008), **Research scientist**.

SCHOLARSHIPS

TUBITAK-NATO A2 Scholarship, Drexel University, Department of Materials Science and Engineering, Philadelphia, USA (Sep 2005-Mar 2006).

Department of Health of the Commonwealth of Pennsylvania Scholarship, Drexel University, Department of Materials Science and Engineering, Philadelphia, USA (Mar-Sep 2006).

AWARDS

7th Drexel University's Research Day. April 25, 2006, **Honorable Mention**, Poster in Basic/Applied Science, "Ordered Arrays of Silicon Nanowires by Conductive AFM Nanolithography".

COURSES

BM 519 BIOSENSORS, Biological components involved in biosensors, immobilization of biological components to transducers, electrochemical, optical, piezoelectric, and thermistor based biosensors, principal performance characteristics, fabrication and biomedical applications.

BM 589 BIOMEDICAL NANOSTRUCTURES, Nanotechnology and Nanobiotechnology terms and definitions, Nanostructure synthesis, characterization, Nanofabrication, Protein, Cell and Tissue interactions with Nanostructures., biomedical and clinical applications of nanostructures.

PUBLICATIONS

2011

32. B. Garipcan, M.O. Çağlayan, G. Demirel, K. Ö. Nazlı B. Otman, B. Çelen, M. Duman, E. Pişkin, Ellipsometry based Oligopeptide sensor for the detection of Cd (II) ions (Article in Preparation).

31. B. Garipcan, M.O. Çağlayan, G. Demirel, K. Ö. Nazlı B. Otman, B. Çelen, M. Duman, E. Pişkin, Ellipsometry based Oligonucleotide sensor for the detection of M. Gordonea (Article in **Preparation**).

30. Bora Garipcan, Stefan Maenz, Jürgen Zanow, Jörg Bossert, Utz Settmacher, and Klaus D. Jandt, Imaging Endothelial Microstructure and Endothelial Cell Dimensions, **Advanced Biomaterials**, (13,1-2, B3-9, **2011**).

29. **Garipcan, B.; Odabas, S.;** Demirel, G.; Burger, J.; Nonnenmann, S.S.; Coster, T.M.; Gallo, M.E.; Nabet, B.; Spanier, J.E.; Piskin, E., In vitro Biocompatibility of n-type and Undoped Silicon Nanowires, **Advanced Biomaterials**, (13,1-2, B54-57, **2011**).

2010

28. Jian-Tao Zhang, Thomas F. Keller, Rahila Bhat, **Bora Garipcan**, Klaus D. Jandt, A novel twolevel microstructured poly(*N*-isopropylacrylamide) hydrogel for controlled release, **Acta Biomaterialia**, (6, (10) 3890-3898, **2010**).

27. Rahila Bhat, Stephan Sell, Ralf Wagner, Jiantao Zhang, Changjiang Pan, **Bora Garipcan**, Wilhelm Boland, Jörg Bossert, Elisabeth Klemm, and Klaus D. Jandt, The Janus - SAM Approach for the Flexible Functionalization of Gold and Titanium Oxide Surfaces **SMALL**, (6 (3) 465-470, **2010**).

2009

26. David C. Trimbach, Dimitry Spitkovsky, **Bora Garipcan**, Sergiy Zankovych, Cornelia Böttinger, Yaki Duan, Jürgen Hescheler, Klaus D. Jandt, A Method for the Real-Time Observation of Endodermal Cell Behavior on Micropatterned Surfaces **Advanced Engineering Materials**, (11, 8 B106-B113, **2009**).

25. M.O. Çağlayan, G. Demirel, F. Sayar, B. Garipcan, B. Otman, B. Çelen, E. Pişkin, Stepwise
Formation approach to improve Ellipsometric Biosensor Response, Nanomedicine:
Nanotechnology, Biology and Medicine, (5 (2) 152-161, 2009).

2008

24. Garipcan, B.; Winters, J.; Atchison, J. S.; Cathell, M. D.; Schiffman, J. D.; Leaffer, O. D.; Nonnenmann, S. S.; Schauer, C. L.; Pişkin, E.; Nabet, B.; Spanier, J. E.Conductive-AFM Nanolithography on Alkene-silane Modified TiO₂ Substrates, **Langmuir**, **(Research Article)** (24(16); 8944-8949, **2008**).

23. Cao, L.; **Garipcan, B**.; Nonnenman, S.; Gallo, E.; Nabet, B.; Spanier, J. E., Excitation of Local Field Enhancement on Silicon Nanowires, **Nano Lett.**, (8 (2), 601 -605, **2008**).

22. Demirel, G.; Çağlayan, M. O.; **Garipcan, B**.; E. Pişkin, E.; A Novel DNA Biosensor Based on Ellipsometry, **Surface Science**, (602, 952–959, **2008**).

2007

21. Demirel, G.; Çağlayan, M. O.; Garipcan, B.; Duman, M.; E. Pişkin, E.; Oriented Immobilization of IgG on Hydroxylated Si(001) Surfaces via Protein-A by a Multiple-step Process Based on a Self-Assembly Approach, **Journal of Materials Science**, (42 (22), 9402-9408, **2007**).

20. Demirel, G.; Çağlayan, M. O.; **Garipcan, B**.; Duman, M.; Pişkin, E.; Formation and Organization of Amino Terminated Self-assembled Layers on Si(001) Surface, **Nanoscale Research Letters**, (Vol. 2, 7, 350-354, **2007**).

2006

19. Cao, L.; **Garipcan, B**.; Atchison, J. S.; Ni, C.; Nabet, B.; Spanier, J. E. Instability and Transport of Metal Catalyst in the Growth of Tapered Silicon Nanowires, **Nano Lett.**, (Letter) (Vol. 6, No. 9, 1852-1857, **2006**).

2005

18. Oncel, S; Uzun, L.; **Garipcan, B**.; Denizli, A., Synthesis of Phenylalanine-Containing Hydrophobic Beads for Lysozyme Adsorption, **Industrial and Engineering Chemistry Research**, (44 (18) 7049-7056, **2005**).

17. Adil Denizli, **Bora Garipcan**, Abdülkerim Karabakan, Hülya Şenöz, Synthesis and characterization of a poly(hydroxyethyl methacrylate-N-methacryloyl-(L)-glutamic acid) copolymer beads for removal of lead ions, **Materials Science and Engineering: C**, (25 (4) 448-454, **2005**).

2004

16. Piskin, E., Garipcan, B., Biochips: focusing on surfaces and surface modification. Adv Exp Med Biol., (553, 149-66, 2004).

15. Denizli, A., Şanlı, N., **Garipcan, B.,** Patır, S., Alsancak, G., Methacryloylamidoglutamic acid incorporated porous poly(methylmethacrylate) beads for heavy metal removal, **Industrial and Engineering Chemistry Research** (43 (19) 6095-6101, **2004**).

14. **Garipcan**, **B.**, Andaç, M., Uzun, L., Denizli, A., Methacryloylamidocysteine functionalized poly(2-hydroxyethyl methacrylate) beads and its design as a metal-chelate affinity support for human serum albumin adsorption, **Reactive and Functional Polymers**, (59, 119-128, **2004**).

13. Denizli, A., Say, R., **Garipcan, B.,** Patır, S., Methacryloylamidoglutamic acid functionalized poly(2-hydroxyethyl methacrylate) beads for UO_2^{+2} removal, **Reactive and Functional Polymers**, (58, 123-130, **2004**).

2003

12. Denizli, A., Alkan, M., Garipcan, B., Özkara, S., Pişkin, E., A novel metal-chelate affinity adsorbent for purification of immunoglobulin-G from human plasma, Journal of Chromatography B, (759 (1) 93-103, 2003).

11. Emir, S., Say, R., **Garipcan, B.,** Denizli, A., Novel methacryloylamidophenylalanine functionalized porous chelating beads for adsorption of heavy metal ions, **Advances in Polymer Technology**, (22 (4) 355-364, **2003**).

10. Özkara, S.; **Garipcan, B.;** Denizli, A.; Pişkin, E., Histidine carrying pseudospecific affinity sorbent for immunoglobulin-G isolation from human plasma in column system, **Journal of Biomaterial Science Polymer Edition**, (14 (8) 761-776, **2003**).

9. Odabaşı, M., **Garipcan, B.,** Denizli, A., Methacryloamidohistidine carrying novel in metal-affinity sorbent for albumin separation from human plasma in batch system, **J. Applied Polymer Science**, (90, 2840-2847, **2003**).

8. Denizli, A., Say, R., **Garipcan, B.**, Emir, S., Karabakan, A., Patır, S., Metal-complexing ligand methacryloamidocysteine containing polymer beads for Cd (II) removal, **Separation and Purification Technology**, (30 (1) 3-10, **2003**).

2002

7. Denizli, A., Garipcan, B., Emir, S., Patır, S., Say, R., Heavy metal ion adsorption properties of methacryloamidocysteine containing porous poyihydroxyethylmetacrylate chelating sorbents, Adsorption Science and Technology, (20 (7) 607-617 2002).

6. Say, R., **Garipcan, B.,** Emir, S., Patır, S., Denizli, A., Preparation and characterization of newly synthesized metal-complexing-ligand N-methacryloyl histidine having PHEMA beads for heavy metal removal from aqueous solutions, **Macromolecular Materials and Engineering**, (287 (8) 539-545, **2002**).

5. **Garipcan, B.**, Say, R., Patir, S., Arica, Y., Denizli, A., poly(hydroxyethyl methacrylate-comethacrylateamidoalanine) membranes and its utilization as a metal chelate affinity sorbent for lysozyme adsorption, **Journal of Biomaterials Science Polymer Edition**, (13 (5) 563-577, **2002**).

4. **Garipcan, B.**, Denizli, A., A novel chromatographic affinity support material for separation of immunoglobulin-G from human plasma, **Macromolecular Bioscience** (2 (3) 135-144, **2002**).

3. Say, R., **Garipcan, B.,** Emir, S., Patır, S., Denizli, A., Preparation of poly(hydroxyethyl methacrylate-co-methacrylateamidohistidine) beads and its design as an affinity adsorbent for Cu (II) removal from aqueous solutions, **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, (196 (2-3) 199-207, **2002**).

2001

2. **Garipcan**, **B**., Bereli, N., Patir, S., Arica, Y., Denizli, A., Synthesis of poly(hydroxyethyl methacrylate-co-methacrylateamidoalanine) membranes and its utilization as a affinity sorbent for lysozyme adsorption, **Macromolecular/Bioscience**, (8 (1) 332-340, **2001**).

2000

 Denizli, A., Yavuz, H., Garipcan, B., Arica, Y., Nonporous Monosize Polymeric Sorbents: Dye and Metal Chelate Affinity Separation of Lysozyme, J. Applied Polymer Science, (76 (2) 115-124, 2000).

PROCEEDINGS AND MEETING ABSTRACTS

1. Garipcan B, Caglayan MO, Demirel G, et al, Ellipsometry based sensor surfaces for oligonucleotide and oligopeptide probes, Abstracts of Papers of the American Chemical Society, (237, 10-NANO, MAR 22, **2009**).

2. Garipcan, B.; Odabas, S.; Demirel, G.; Burger, J.; Nabet, B.; Spanier, J.E.; Piskin, E., In vitro biocompatibility of plain and doped silicon nanowires, Tissue Engineering Part A , (14 (5) 863-864, P205, **2008**).

MEMBER OF SCIENTIFIC COMMITTEES

Chromatography, 2009, Karadeniz Technical University, Trabzon, Turkey. Member of Scientific Committee.

16th International Biomedical Science & Technology Symposium (BIOMED 2010), 29 September- 2 October 2010, Istanbul, Turkey, National Advisory Board.

RESEARCH AREAS

1. Polymer Technology: Production of polymers which have different type of bulk and surface characteristics, shapes and geometries.

2. Biomaterials: Production and characterization of polymeric biomaterials and modification of the surface of polymeric biomaterials by different methods (by chemically, biologically, plasma etc.).

3. Affinity Chromatography applications (e.g.,dye-ligand, metal chelate, pseudospecific).

4. Biosensors.

5. DNA and protein biochip technology: Preparation of oligonucleotide and oligopeptide microarrays and their applications.

- 6. AFM Nanolithography
- 7. Synthesis and characterization of Semiconductor Nanostructures and their applications.
- 8. Interaction of nanomaterials with cells and tissues.
- 9. Soft Lithography and Microcontact printing
- **10.** Biomimetic Materials

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