

CURRICULUM VITAE

Mufrettin Murat SARI, PhD

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ACADEMIC AND PROFESSIONAL APPOINTMENTS

Adjunct Professor, Texas A&M University-Commerce Commerce, Texas, USA	2019-
Teaching Faculty, Brookhaven College, Dallas, Texas, USA	2018-
Visiting Chemistry Professor, Texas A&M University, College Station, Texas, USA	2015-2017
Chemistry & Biochemistry Professor, Hacettepe University and Military Academy, Ankara, Turkey	2003-2015
Visiting Chemistry Professor and Lecturer, (Between 2008-2009, in NATO Multinational Task Forces, Peacekeeping Mission, Higher Education Division in Kosovo)	(2008-2009)
Chemistry Lecturer, Criminal Department Research Center, Gendarmerie General Command, Ankara, Turkey	2001-2003
Teaching Assistant and Laboratory Instructor Hacettepe University, Ankara, Turkey	1998-2001

COURSES LECTURED

Undergraduate Level	General and Qualitative Chemistry I, Texas A&M University-Commerce	2019-
	General Chemistry Tutorial, Texas A&M University-Commerce	2019-
	General and Qualitative Chemistry Laboratory, Texas A&M University-Commerce	2019-
	Introductory Chemistry I, Brookhaven College, Dallas, Texas, USA	2018-
	General Chemistry I, Mountain View College, Dallas, Texas, USA	2018-
	General Chemistry I/II,	2008-2012 1999-2004
	Biochemistry I/II,	2005-2009 2012-2015
	Fundamentals of Biochemistry,	2003-2005
	Organic Chemistry I/II,	2009-2012
	Introductory Chemistry I/II,	2005-2007 2013-2015
	Applied Biochemistry and Biotechnology, (Elective)	2006-2007 2010-2014
	General Chemistry Laboratory I/II,	1998-2007 2004-2013
	Introductory Chemistry Laboratory I/II,	2006-2007 2013-2015
	Biochemistry Laboratory I/II,	2001-2006 2010-2015

Undergraduate/ Graduate Level	Knowledge Acquisition and Permanent Learning Processes for Career Construction (Seminar Course, Elective)	2011-2016
Graduate Level	Fundamentals of Nanotechnology and Biotechnology, (Texas A&M University, Seminar Course, Elective)	2015-2016
	Metabolic Biochemistry (Elective),	2007-2009
	Amino Acid and Nucleotide Metabolism (Elective),	2010-2012
	Protein Purification and Enzyme Immobilization Techniques (Elective),	2006-2008 2014-2015

EDUCATION&TRAINING

Post.Doc.

Nanotechnology&Biotechnology	Department of Chemistry, University of Florida, Gainesville, Florida, USA	2011
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PhD

Chemistry (Applied Biochemistry, GPA: 4.00/4.00)	Biochemistry Division, Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	2005
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MS

Chemistry (Biopolymers/Biogels, GPA: 3.56/4.00)	Polymer Chemistry Division, Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	2000
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BSc

Chemistry	Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	1997
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INVITED SHORT TERM ACADEMIC ACTIVITIES

- Lecturer and Participant, “Analytical Skills Development Program”, December 2012, University of Helsinki, Helsinki, Finland.
- Lecturer, “Fundamentals of Nanotechnology”, European ERASMUS Teaching Staff Mobility Program, June 2015, Polish Land Forces Military Academy, Wroclaw, Poland.

RESEARCH AREAS

- Surface Modification and Functionalization,
- Synthesis, Characterization and Functionalization of Nano-/Micron- Sized Polymeric Particles and their use in Nano/Bio-technological Application,
- Synthesis, Characterization and Environmental Applications of Hydrogels and Cryogels, and Supramolecular Assemblies,
- Synthesis and Environmental Applications of Nanopharmaceutics,
- Protein Separation/Purification, Enzyme Immobilization,
- Design, functionalization and biotechnological application of graphene-based materials.

LIST OF SCIENTIFIC PUBLICATIONS

My google scholar link is:

<https://scholar.google.com/citations?user=zsKkp2wAAAAJ&hl=en>

1. L. Hao, C. Yegin, J. V. Talari, J. K. Oh, M. Zhang, M. M. Sari, L. Zhang, Y. Min, M. Akbulut, B. Jiang, “Thermo-responsive gels based on supramolecular assembly of an amidoamine and citric acid” SOFT MATTER, Vol.14(3), 432-439, 2018.

2. Y. Yegin, C. Yegin, J. Oh, A. Orr, M. Zhang, N. Nagabandi, M.M. Sari, A. Castillo, M. Akbulut, “Ecotoxic Effects of Paclitaxel-Based Nanopharmaceutics on Freshwater Algae,

Pseudokirchneriella subcapitata and Chamydomonas reinhardtii” ENVIRONMENTAL SCIENCE: NANO, Vol.4, 1077-1085, 2017.

3. C. Yegin, W. Lu, B. Kheireddin, M. Zhang, P. Li, Y. Min, H. J. Sue, M.M. Sari, M. Akbulut, “The effect of nanoparticle functionalization on lubrication performance of nanofluids dispersing silica nanoparticles in an ionic liquid” JOURNAL OF TRIBOLOGY, Vol.139, 041802-1-8, 2017.

4. I. Ocsoy, B. Gulbakan, T. Chen, G. Zhu, Z. Chen, M. Sari, W. Tan, “DNA-Guided-Metal Nanoparticle Formation on Graphene Oxide Surfaces” ADVANCED MATERIALS, Vol. 25, 2319–2325, 2013.

5. G. Yilmaz, M. Kurtulgu, M.M. Sari, L. Uzun, A. Denizli, “Design of Magnetic Graphene Oxide Containing Magnetically Stabilized Fluidized Bed System for Dopamine Adsorption in the Presence of Ascorbic Acid and Uric Acid” SEPARATION SCIENCE AND TECHNOLOGY, Vol. 48, 2608–2615, 2013.

6. F. Yilmaz, K. Kose, M.M. Sari, G. Demirel, L. Uzun, A. Denizli, “Bioinspired surface modification of poly(2-hydroxyethyl methacrylate) based microbeads via direct polymerization of Dopamine” COLLOIDS AND SURFACES B-BIOINTERFACES, Vol. 109 176-182, 2013.

7. M.M. Sari, “Fluorescein isothiocyanate conjugated graphene oxide for detection of dopamine via adsorption” MATERIALS CHEMISTRY AND PHYSICS, Vol. 138, 843-849, 2013.

8. A. Doğan, S. Özkara, M.M. Sari, L. Uzun, A. Denizli, "Evaluation of human interferon adsorption performance of Cibacron Blue F3GA attached cryogels and interferon purification by using FPLC system", JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, Vol. 893-894, 69-76, 2012.

9. Y. Saylan, M.M. Sari, S. Özkara, L. Uzun, A. Denizli, "Hydrophobic microbeads as an alternative pseudo-affinity adsorbent for recombinant human interferon- α via hydrophobic interactions", MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, Vol. 32, 937-944, 2012.

10. M.M. Sari, C. Armutçu, N. Bereli, L. Uzun, A. Denizli, "Monosize microbeads for pseudo-affinity adsorption of human insulin", COLLOIDS AND SURFACES B-BIOINTERFACES, Vol. 84, 140-147, 2011.

11. M.M. Sari, "Investigation of Yeast Invertase Immobilization onto Cupric Ion-Chelated, Porous, and Biocompatible Poly (Hydroxyethyl Methacrylate-n-Vinyl Imidazole) Microspheres", APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, Vol. 1623, 1020-1037, 2011.

12. M.M. Sari, "Removal of acidic indigo carmine textile dye from aqueous solutions using radiation induced cationic hydrogels", WATER SCIENCE AND TECHNOLOGY, Vol. 61, 2097-2104, 2010.

13. M. Sari, S. Akgöl, M. Karatas, A. Denizli, "Reversible Immobilization of Catalase by Metal Chelate Affinity Interaction on Magnetic Beads", INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, Vol. 45, 3036-3043, 2006.

14. M. Şen, M. Sari, "Radiation Synthesis and Characterization of Cationic Poly (N,N-Dimethylamino Ethyl Methacrylate/N-vinyl 2-Pyrrolidone/Ethylene Glycol Dimethacrylate) Hydrogels", EUROPEAN POLYMER JOURNAL, Vol. 41, 1304-1314, 2005.

15. P. Akkas, M. Sari, M. Şen, O. Güven, "The effect of external stimuli on the Bovine Serum Albumin adsorption capacity of poly(acrylamide/maleic acid) hydrogels prepared by gamma rays", RADIATION PHYSICS AND CHEMISTRY, Vol.55, 717-721, 1999.

PRESENTATIONS IN SCIENTIFIC CONGRESSES

1. C. Yegin, C. Temizel, Y. Yegin, M. M. Sari, B. Jia, M. Y. Alklich, SPE Abu Dhabi International Petroleum Exhibition & Conference, "pH-Responsive Supramolecular Gelling Agents Used in EOR and Their Potential as Fracking Fluids", 13-16 November , Abu Dhabi, UAE.

2. C. Yegin, C. Temizel, Y. Yegin, Z. Agharzayeva, M.M. Sari, B. Jia, A. Urakov, SPE Annual Caspian Technical Conference and Exhibition, "Improving Reservoir Conformance Control Through Next-Generation Supramolecular Gelators and their Use in Hydraulic Fracturing", 125 pp., 1-3 November, 2017, Baku, Azerbaijan.

3. M.M. Sari, L. Uzun, S. Ünal, A. Denizli, 16th International Biomedical Science and Technology Symposium, "Affinity Purification of Recombinant Human Interferon- α Using Pseudospecific Glutamic Acid Ligand Containing Beads", 125 pp., İstanbul, Turkey, September, 2010.

4. M.M. Sari, D. Türkmen, L. Uzun, A. Denizli, 16th International Biomedical Science and Technology Symposium, "Preparation of Tryptophan Containing Monosize Hydrophobic Poly(glycidyl methacrylate) Beads and its Design as an Affinity Adsorbent for Insulin Adsorption", 125 pp., İstanbul, Turkey, September, 2010.

5. G. Baydemir, M. Odabasi, M. Sari, A. Denizli, 11th International Biomedical Science and Technology Symposium, "Purification of Albumin with Cibacrone Blue F3GA Attached Poly(Vinyl Alcohol) Beads in Continuous System", 9 pp., Ankara, Turkey, September, 2004.
6. M. Sari, N. Bereli, L. Uzun, A. Denizli, 6th National Congress on Affinity Techniques, "Preparation of Histidine Containing Microbeads and Its Use for Insulin Adsorption", P-47 pp., Aksaray, Turkey, May, 2010.
7. M. Sari, Chromatography 2010, "Radiation Synthesis of Cationic Poly(Dimethylamino etyl methacrylate) Hydrogels and Its Use for Removal acidic Indigo Carmine Textile Dyes from Aqueous Solutions", June 2010 pp., P-52, Erzurum, Turkey.
8. Y. Saylan, S. Özkara, M. Sari, L. Uzun, A. Denizli, Chromatography 2010, "L-Phenylalanine Containing Hydrophobic Microbeads for Adsorption of Recombinant Human Interferon- α ", June 2010 pp., P-84 pp., Erzurum, Turkey.
9. M. Sari, V. Karakoç, S. Akgöl, M. Karatas, A. Denizli, 1st National Congress on Affinity Techniques, "Reversible Immobilization of Catalase using Metal Chelated Magnetic Microspheres", 60 pp., Ankara, Turkey, June, 2005.
10. M. Sari, E. Öztürk, K. Keçeci, E.B. Denkbas, 2nd National Chromatography Congress, "Magnetic Chitosan Microbeads for Removal of Heavy Metals" 67 pp., Kırıkkale, Turkey, June, 2001.

BOOK CHAPTERS

1. Chapter Title: Molecularly Imprinted Materials for Fiber Optic Sensor Platforms (Chapter 6 in the book entitled "Advanced Molecular Imprinting Materials, 2016").

Corresponding Author: M.M. Sari

2. Chapter Title: Molecularly Imprinted Materials for Controlled Release System (Chapter 12 in the book entitled "Advanced Molecular Imprinting Materials, 2016").

Corresponding Author: M.M. Sari

BOOK STUDY

Book Title: Advanced Materials and Sensors for Energy Industry (In Press).

Editors: L. Saputelli, A. Tiwari, M.M. Sari, L. Uzun, C. Temizel