CURRICULUM VITAE

Mufrettin Murat SARI, PhD

Department of Chemistry,
Texas A&M University-Commerce,
Commerce, TX 75428,
E-Mail: Mufrettin.Sari@tamuc.edu

ACADEMIC AND PROFESSIONAL APPOINTMENTS

Adjunct Faculty, Texas A&M University-Commerce, Commerce, Texas	2019-
Adjunct Faculty, University of North Texas, Dallas, Texas	2020-
Adjunct Faculty, Brookhaven College, Farmer Branch, Texas	2018-
Adjunct Assistant Professor, University of Texas at Arlington, Arlington, Texas	2019
Visiting Chemistry Professor, Texas A&M University at College Station, College Station, Texas	2015-2017
Chemistry & Biochemistry Professor, Hacettepe University and Military Medical 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, 2001-2003
Criminal Department Research Center,
Gendarmerie General Command, Ankara, Turkey

Teaching Assistant, 1998-2001
Hacettepe University, Ankara, Turkey

COURSES LECTURED

Undergraduate Level	General Chemistry, Texas A&M University-Commerce	2019-
	Survey of General Chemistry, Texas A&M University-Commerce	2019-
	General Chemistry Tutorial, Texas A&M University-Commerce	2019-
	Organic Chemistry Laboratory-I, Texas A&M University-Commerce	2020-
	General Chemistry Laboratory, Texas A&M University-Commerce	2019-
	Survey of Chemistry Laboratory, Texas A&M University-Commerce	2019-
	Environmental Science, University of North Texas, Dallas	2020-
	Environmental Science Laboratory, University of North Texas, Dallas	2020-
	Chemistry for Engineers, University of Texas at Arlington	2019
	Introductory Chemistry I/II, Brookhaven College, Dallas, Texas	2018-
	General Chemistry I/II, Mountain View College, Dallas, Texas	2018-

	General Chemistry I/II, Tarrant College, Fort Worth, Texas	2018-2019
	Biochemistry I/II	2005-2009 2012-2015
	Fundamentals of Biochemistry	2003-2006
	General Chemistry I/II	2008-2012 1999-2004
	Organic Chemistry I/II	2009-2014
	Environmental Chemistry	2010-2014
	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 Biotechnology and Bioengineering, *Texas A&M University at College Station,* *(Seminar Course)*	2015-2016

Before Texas A&M University, (Elective)	2011-2013
Metabolic Biochemistry (Elective)	2007-2009
Carbohydrate and Lipid Metabolism (Elective)	2010-2013
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
PhD		
Chemistry (Applied Biochemistry, GPA: 4.00/4.00)	Biochemistry Division, Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	2005
MS		
Chemistry (Biopolymers/Biogels, GPA: 3.56/4.00)	Polymer Chemistry Division, Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	2000
BSc		
Chemistry	Department of Chemistry, Hacettepe University, Beytepe, Ankara, Turkey	1997

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

- Protein Separation/Purification, Enzyme Immobilization,
- Surface Modification and Functionalization,

- Synthesis, Characterization and Functionalization of Nano-/Micron- Sized Polymeric Materials 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,

- 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. Alklih, 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. Odabası, 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-Phenyalanine 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 STUDY

1. Book Title: Sustainable Materials for Transitional and Alternative Energy, *Elsevier Publishing Co., 2020.*
Editors: M.M. Sari, C. Temizel, C.H. Canbaz, L. Saputelli, O. Torsaeter

2. Book Title: Sustainable Materials for Oil and Gas Applications, *Elsevier Publishing Co., 2020.*
Editors: C. Temizel, M.M. Sari, C.H. Canbaz, L. Saputelli, O. Torsaeter

BOOK CHAPTERS

1. Chapter Title: Molecularly Imprinted Materials for Fiber Optic Sensor Platforms, *Chapter 6 in the book entitled "Advanced Molecular Imprinting Materials", Wiley Publishing Co., 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", Wiley Publishing Co., 2016.*
Corresponding Author: M.M. Sari