

## Assoc. Prof. SERHAN TÜRKYILMAZ

### Personal Information

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### International Researcher IDs

ScholarID: ENRjEroAAAAJ

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Publons / Web Of Science ResearcherID: K-7953-2014

ScopusID: 7801644477

Yoksis Researcher ID: 198214

### Education Information

Doctorate, University of Pittsburgh, Fen Edebiyat Fakültesi Kimya Bölümü, United States Of America 1996 - 2007

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1992 - 1996

### Dissertations

Doctorate, Oligomeric Ethylene Glycols as Sorting Tags for Combinatorial Synthesis, University Of Pittsburgh, Fen Edebiyat Fakültesi Kimya Bölümü, 2007

### Research Areas

Microbiology, Biochemistry, Organic Chemistry

### Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2024 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2017 - 2024

Assistant Professor, Istanbul University, Faculty Of Pharmacy , Department Of Professional Pharmaceutical Sciences, 2014 - 2017

Research Assistant, University of Notre Dame, Fen Edebiyat Fakültesi, Kimya Ve Biyokimya Bölümü, 2011 - 2013

Research Assistant, Lehigh University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2007 - 2011

Research Assistant, University of Pittsburgh, Fen Edebiyat Fakültesi, Kimya Bölümü, 1998 - 2007

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1997 - 1997

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1996 - 1996

Research Assistant, University of Pittsburgh, Fen Edebiyat Fakültesi, Kimya Bölümü, 1996 - 1996

## Academic and Administrative Experience

İstanbul Üniversitesi, Doğal Kaynaklardan İlaç Geliştirme Uygulama Ve Araştırma Merkezi, 2015 - 2017

## Courses

Biochemistry, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

ORGANIC CHEMISTRY III, Undergraduate, 2023 - 2024, 2022 - 2023, 2019 - 2020, 2018 - 2019

Research Methods and Ethics in Chemistry , Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

INTRODUCTION TO ORGANIC CHEMISTRY, Undergraduate, 2023 - 2024, 2020 - 2021

ORGANIC CHEMISTRY, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

FUNDAMENTALS of ORGANIC CHEMISTRY, Undergraduate, 2020 - 2021

SEMINAR IN CHEMISTRY IV , Doctorate, 2020 - 2021, 2019 - 2020

SEMINAR IN CHEMISTRY III, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020

ORGANIC CHEMISTRY: Reactions&Synthesis, Postgraduate, 2019 - 2020, 2018 - 2019

ORGANIC CHEMISTRY FOR ENGINEERS, Undergraduate, 2019 - 2020, 2018 - 2019

GENERAL CHEMISTRY, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, December, 2022

Post Graduate, Post Graduate, Middle East Technical University, July, 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Bis(dipicolylamine) derivatized cellulose microspheres for the sequestration of negatively charged biomembrane bearing species**  
Demirel K., YILMAZ O., AKBULUT D., TÜRKYILMAZ S.  
Cellulose, vol.30, no.7, pp.4543-4560, 2023 (SCI-Expanded)
- II. **Asymmetric solution-phase mixture aldol reaction using oligomeric ethylene glycol tagged chiral oxazolidinones**  
Turkyilmaz S., Wilcox C. S.  
TETRAHEDRON LETTERS, vol.58, no.21, pp.2031-2033, 2017 (SCI-Expanded)
- III. **Evaluation of [In-111]-Labeled Zinc-Dipicolylamine Tracers for SPECT Imaging of Bacterial Infection**  
Rice D. R., Plaunt A. J., Turkyilmaz S., Smith M., Wang Y., Rusckowski M., Smith B. D.  
MOLECULAR IMAGING AND BIOLOGY, vol.17, no.2, pp.204-213, 2015 (SCI-Expanded)
- IV. **Selective recognition of anionic cell membranes using targeted liposomes coated with zinc(II)-bis(dipicolylamine) affinity units**  
Turkyilmaz S., Rice D. R., Palumbo R., Smith B. D.  
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.12, no.30, pp.5645-5655, 2014 (SCI-Expanded)
- V. **Surface Occupancy Plays a Major Role in Cholesterol's Condensing Effect**  
Krause M. R., Turkyilmaz S., Regen S. L.  
LANGMUIR, vol.29, no.33, pp.10303-10306, 2013 (SCI-Expanded)
- VI. **Convenient synthesis of multivalent zinc(II)-dipicolylamine complexes for molecular recognition**  
Xiao S., Turkyilmaz S., Smith B. D.  
TETRAHEDRON LETTERS, vol.54, no.8, pp.861-864, 2013 (SCI-Expanded)

- VII. **Multivalent Dendritic Molecules as Broad Spectrum Bacteria Agglutination Agents**  
Xiao S., Abu-Esba L., Turkyilmaz S., White A. G., Smith B. D.  
THERANOSTICS, vol.3, no.9, pp.658-666, 2013 (SCI-Expanded)
- VIII. **Targeted liposomes for cell death imaging and amplified drug delivery**  
Rice D. R., Turkyilmaz S., Palumbo R. O., Harmatys K. M., Smith B. D.  
JOURNAL OF NUCLEAR MEDICINE, vol.54, pp.22, 2013 (SCI-Expanded)
- IX. **Effects of Isoflurane, Halothane, and Chloroform on the Interactions and Lateral Organization of Lipids in the Liquid-Ordered Phase**  
Turkyilmaz S., Almeida P. F., Regen S. L.  
LANGMUIR, vol.27, no.23, pp.14380-14385, 2011 (SCI-Expanded)
- X. **Phospholipid Complexation of General Anesthetics: A Wake-Up Call**  
Regen S. L., Turkyilmaz S.  
BIOPHYSICAL JOURNAL, vol.100, no.3, pp.4, 2011 (SCI-Expanded)
- XI. **Phospholipid Complexation of General Anesthetics in Fluid Bilayers**  
Turkyilmaz S., Mitomo H., Chen W., Regen S. L.  
LANGMUIR, vol.26, no.8, pp.5309-5311, 2010 (SCI-Expanded)
- XII. **An Upside Down View of Cholesterol's Condensing Effect: Does Surface Occupancy Play a Role?**  
Janout V., Turkyilmaz S., Wang M., Wang Y., Manaka Y., Regen S. L.  
LANGMUIR, vol.26, no.8, pp.5316-5318, 2010 (SCI-Expanded)
- XIII. **Loosening and Reorganization of Fluid Phospholipid Bilayers by Chloroform**  
Turkyilmaz S., Chen W., Mitomo H., Regen S. L.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.131, no.14, pp.5068-5071, 2009 (SCI-Expanded)
- XIV. **Oligomeric ethylene glycols as sorting tags for parallel and combinatorial mixture synthesis**  
Wilcox C., Turkyilmaz S.  
TETRAHEDRON LETTERS, vol.46, no.11, pp.1827-1829, 2005 (SCI-Expanded)
- XV. **Solution-phase mixture synthesis with double-separation tagging: Double demixing of a single mixture provides a stereoisomer library of 16 individual murisols**  
WILCOX C. S., Gudipati V., Lu H., Turkyilmaz S., Curran D.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.44, no.42, pp.6938-6940, 2005 (SCI-Expanded)
- XVI. **A squaraine-based near IR fluorescent chemosensor for calcium**  
Akkaya E. U., TÜRKYILMAZ S.  
Tetrahedron Letters, vol.38, no.25, pp.4513-4516, 1997 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Solüsyon-Fazı Karışım Sentezleri için Oligomerik Etilen Glikol Temelli Kromatografik Tasnif Etiketleri**  
TÜRKYILMAZ S.  
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017, pp.308
- II. **Bakteriyel Hücrelere Hedeflenebilir Çinko(II)-Bisdipikolilamin Kompleksleri Taşıyan Teranostik Ajanlara Yönelik Çalışmalar**  
TÜRKYILMAZ S.  
5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017, pp.21
- III. **Synthetic Studies Towards Zn II Bisdipicolylamine Zn2BDPA Complex Bearing Porphyrin Derivatives as Targeted Antibacterial Photodynamic Therapy PDT Agents**  
ÇİMİR S., TÜRKYILMAZ S.  
6th EuCheMS Chemistry Congress, Sevilla, Spain, 11 - 15 September 2016
- IV. **Bakteriyel Hücrelere Hedeflenebilir Porfirin Türevlerine Yönelik Çalışmalar**  
ÇİMİR S., TÜRKYILMAZ S.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016

- V. **Studies Towards Multivalent Zn II Bisdipicolylamine Systems for Theranostic Applications**  
TÜRKYILMAZ S., RİCE D. R., ÇİMİR S., PALUMBO R., SMİTH B. D.  
Trans Mediterranean Colloquium on Heterocyclic Chemistry TRAMECH VIII, Antalya, Turkey, 11 - 15 November 2015
- VI. **SPECT Imaging of Bacterial Infection Using 111 Indium Labeled Molecular Probes**  
RİCE D. R., SMİTH M. P., WANG Y., PLAUNT A. J., TÜRKYILMAZ S., RUSCKOWSKI M., SMİTH B. D.  
Proceedings of the World Molecular Imaging Congress 2013, United States Of America, 18 - 21 September 2013, vol.15, pp.2-1590
- VII. **Targeted liposomes for cell death imaging and amplified drug delivery**  
RİCE D., TÜRKYILMAZ S., PALUMBO R., HARMATYS K., SMİTH B. D.  
AACR/SNMMI Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, 27 February - 02 March 2013, vol.54, pp.3-35
- VIII. **Phospholipid Complexation of General Anesthetics A Wake Up Call**  
REGEN S. L., TÜRKYILMAZ S.  
55th Annual Meeting of the Biophysical-Society, 5 - 09 March 2011, vol.100, pp.4
- IX. **Atomization by Organic Solvents in Atom Trapping AAS**  
TÜRKYILMAZ S., KUMSER S., ERTAŞ N., ATAMAN O. Y.  
35. IUPAC Kongresi, İstanbul, Turkey, 14 - 19 August 1995
- X. **Ultra Trace Amounts of Moisture Determination in Gasoline Using Proton Isoconcentration Technique by Standard Additions Method**  
KARİM M., TÜRKYILMAZ S., ATAMAN O. Y.  
35. IUPAC Kongresi, 14 - 19 August 1995
- XI. **Moisture Determination in Tobacco Using the Proton Isoconcentration Technique**  
KARİM M., TÜRKYILMAZ S.  
10. Ulusal Kimya Kongresi, Bursa, Turkey, 19 - 21 September 1994

## Metrics

Publication: 37

Citation (WoS): 240

Citation (Scopus): 251

H-Index (WoS): 10

H-Index (Scopus): 10

## Non Academic Experience

Procter and Gamble GmbH, Schwalbach Teknik Merkezi, Almanya