

Asst. Prof. Serhan TRKYILMAZ

Personal Information

Office Phone: [+90 212455570](tel:+90212455570) Extension: 13458

Email: serhan.turkyilmaz@istanbul.edu.tr

Web: http://www.researchgate.net/profile/Serhan_Turkyilmaz

Address: İstanbul Üniversitesi Eczacılık Fakltesi Farmastik Kimya Anabilim Dalı 34116 Beyazıt, İstanbul

Education Information

Doctorate, University of Pittsburgh, School Of Arts And Sciences, Department Of Chemistry, United States Of America
1996 - 2007

Undergraduate, Middle East Technical University, Fen Edebiyat Fakltesi, Kimya Blm, Turkey 1992 - 1996

Foreign Languages

German, B1 Intermediate

English, C1 Advanced

Dissertations

Doctorate, Oligomeric Ethylene Glycols as Sorting Tags for Combinatorial Synthesis, University of Pittsburgh, School Of Arts And Sciences, Department Of Chemistry, 2007

Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry, Chemistry, Organic Chemistry, Chemistry of Asymmetric Synthesis, Chemistry of Macromolecules, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Pharmacy , Department of Professional Pharmaceutical Sciences,
2014 - Continues

Medical Doctor, Istanbul University, Faculty of Pharmacy , Department of Professional Pharmaceutical Sciences, 2013 -
2015

Research Assistant PhD, University of Notre Dame, School Of Arts And Sciences, Department Of Chemistry And
Biochemistry, 2011 - 2013

Research Assistant PhD, Lehigh University, School Of Arts And Sciences, Department Of Chemistry, 2007 - 2011

Research Assistant, University of Pittsburgh, School Of Arts And Sciences, Department Of Chemistry, 1997 - 2007

Research Assistant, Middle East Technical University, Fen Edebiyat Fakltesi, Kimya, 1997 - 1997

Research Assistant, University of Pittsburgh, School Of Arts And Sciences, Department Of Chemistry, 1996 - 1997

Research Assistant, Middle East Technical University, Fen Edebiyat Fakltesi, Kimya Blm, 1996 - 1996

Academic and Administrative Experience

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

Courses

Bilimsel Araştırma Teknikleri ve Yayın Etiği, Postgraduate, 2016 - 2017
Uzmanlık Alan Dersi, Postgraduate, 2016 - 2017, 2015 - 2016
Kütle Spektroskopisi ve İlaçlara Uygulanması, Postgraduate, 2015 - 2016
Yüksek Basınçlı Sıvı Kromatografisi ve İlaçlara Uygulanması, Postgraduate, 2016 - 2017
Organic Chemistry, Undergraduate, 2016 - 2017
Bilimsel Araştırma ve Literatür Tarama, Undergraduate, 2015 - 2016
Kütle Spektroskopisi ve İlaçlara Uygulanması, Postgraduate, 2014 - 2015
Yüksek Basınçlı Sıvı Kromatografisi ve İlaçlara Uygulanması, Postgraduate, 2014 - 2015

Advising Theses

TÜRKYILMAZ S., Bakteriyel Hücrelere Hedeflenebilir Porfirin Türevlerinin Sentezi, Yapılarının Aydınlatılması ve Fotofiziksel Özelliklerinin Tayin Edilmesi, Postgraduate, S.Şahin(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)

X. **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)

XI. **Oligomeric ethylene glycols as sorting tags for parallel and combinatorial mixture synthesis**

Wilcox C. S., Turkeyilmaz S.

TETRAHEDRON LETTERS, vol.46, no.11, pp.1827-1829, 2005 (SCI-Expanded)

XII. **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. J., Turkeyilmaz S., Curran D. P.

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.44, no.42, pp.6938-6940, 2005 (SCI-Expanded)

XIII. **A squaraine-based near IR fluorescent chemosensor for calcium.**

Akkaya E. U., Turkeyilmaz S.

TETRAHEDRON LETTERS, vol.38, no.25, pp.4513-4516, 1997 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **Synthetic Studies Towards Zn(II)-Bisdipicolylamine (Zn2BDPA) Complex Bearing Porphyrin Derivatives as Targeted Antibacterial Photodynamic Therapy (PDT) Agents**

Çimir S., TÜRKYILMAZ S.

6th EuCheMS Chemistry Congress, Seville, Spain, 11 - 15 September 2016, pp.917

III. **Bakteriyel Hücrelere Hedeflenebilir Porphirin Türevlerine Yönelik Çalışmalar**

Çimir S., TÜRKYILMAZ S.

3. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016

IV. **Studies Towards Multivalent Zn(II)-Bisdipicolylamine Systems for Theranostic Applications**

TÜRKYILMAZ S., Rice D. R., Çimir S., Palumbo R., Smith B. D.

Trans Mediterranean Colloquium on Heterocyclic Chemistry TRAMECH VIII, Antalya, Turkey, 11 - 15 November 2015, pp.43

V. **SPECT Imaging of Bacterial Infection Using 111-Indium Labeled Molecular Probes**

Rice D. R., SMITH M., WANG Y., PLAUNT A. J., TÜRKYILMAZ S., RUSCKOWSKI M., Smith B. D.

World Molecular Imaging Congress 2013, Savannah, Ga, United States Of America, 18 - 21 September 2013

VI. **Targeted liposomes for cell death imaging and amplified drug delivery**

Rice D. R., TÜRKYILMAZ S., Palumbo R. O., Smith B. D.

AACR/SNMMI Conference on State-of-the-Art Molecular Imaging in Cancer Biology and Therapy, San Diego, Ca, United States Of America, 27 February - 02 March 2013, vol.54, pp.22

VII. **Phospholipid Complexation of General Anesthetics: A Wake-Up Call**

Regen S. L., TÜRKYILMAZ S.

55th Annual Meeting of the Biophysical Society, Baltimore, Md, United States Of America, 5 - 09 March 2011, vol.100, no.3, pp.4

VIII. **Atomization by Organic Solvents in Atom Trapping AAS**

Kumser S., Ertas N., TÜRKYILMAZ S., Ataman O. Y.

35. IUPAC Kongresi, İstanbul, Turkey, 14 - 19 August 1995, pp.1131

IX. **Ultra Trace Amounts of Moisture Determination in Gasoline Using Proton Isoconcentration Technique by Standard Additions Method**

Karim M., TRKYILMAZ S., Ataman O. Y.

35. IUPAC Kongresi, İstanbul, Turkey, 14 - 19 August 1995, pp.1180

X. Moisture Determination in Tobacco Using the Proton Isoconcentration Technique

Karim M., TRKYILMAZ S.

10. Ulusal Kimya Kongresi, Bursa, Turkey, 19 - 21 September 1994, pp.75

Supported Projects

TRKYILMAZ S., TUBITAK Project, Bakteriyel Hcrelere Hedeflenebilir Porfirin Trevleri, 2016 - 2017

Other International Funding Programs, Molecular Probes for Biomembrane Recognition, 2013 - 2013

Other International Funding Programs, Nuclear Imaging of Anticancer Efficacy in the Early Stages of Treatment, 2011 - 2013

Other International Funding Programs, Nearest-Neighbor Recognition in Lipid Bilayers, 2007 - 2011

Other International Funding Programs, New Phase Tags and Sorting Tags for Organic Synthesis, 2003 - 2006

Memberships / Tasks in Scientific Organizations

Trk Farmastik ve Medisinal Kimya Derneęi, Member, 2015 - Continues

American Chemical Society, Member, 2010 - Continues

Scientific Refereeing

TUBITAK Project, November 2015

Metrics

Publication: 23

Citation (WoS): 206

Citation (Scopus): 204

H-Index (WoS): 9

H-Index (Scopus): 8