

Asst. Prof. TUĞBA ARZU ÖZAL İLDENİZ

Personal Information

Email: tugba.ildeniz@acibadem.edu.tr

Web: <https://avesis.acibadem.edu.tr/tugba.ildeniz>

International Researcher IDs

ScholarID: II_Haj0AAAAJ

ORCID: 0000-0002-1833-8603

Publons / Web Of Science ResearcherID: C-1488-2018

Yoksis Researcher ID: 110049

Education Information

Doctorate, Johannes Gutenberg Universitaet Mainz, The Faculty of Chemistry, Pharmacy and Earth Sciences, Chemistry, Germany 2004 - 2007

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Kimya (YI) (Tezli), Turkey 2002 - 2004

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 1997 - 2002

Undergraduate Minor, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1997 - 2002

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Health&Medicine, Acibadem Akademi _ Bebek Dostu Hastane Eğitimi (Sınavı 2022), Acibadem Academy, 2022

Research Areas

Health Sciences, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2019 - Continues

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, Vocational School Of Health Services, Environmental Health Program, 2015 - 2019

Lecturer, Kadir Has University, Faculty Of Engineering And Natural Sciences, Department Of Management Information Systems, 2010 - 2014

Courses

Research and Ethics in Natural Sciences, Postgraduate, 2021 - 2022
Thesis, Doctorate, 2022 - 2023
General Chemistry I, Undergraduate, 2022 - 2023, 2021 - 2022
Thesis, Postgraduate, 2022 - 2023, 2021 - 2022
General Chemistry I, Undergraduate, 2022 - 2023, 2021 - 2022
Introduction to Graphics and Molecular Modelling, Postgraduate, 2022 - 2023, 2021 - 2022
Ethics in Natural Sciences, Doctorate, 2021 - 2022
PROBABILITY AND BIOSTATISTICS, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
preparation for the doctoral qualification exam, Doctorate, 2022 - 2023, 2021 - 2022
Patient Safety and Risk Management, Undergraduate, 2021 - 2022, 2020 - 2021
General Chemistry Laboratory, Undergraduate, 2022 - 2023, 2021 - 2022
Principles of Biotechnology, Postgraduate, 2021 - 2022, 2020 - 2021
Principles of Biotechnology and Applications, Doctorate, 2021 - 2022, 2020 - 2021
Research and Ethics in Natural Sciences, Postgraduate, 2021 - 2022
Thesis, Postgraduate, 2022 - 2023, 2021 - 2022
MOLECULAR MODELLING AND GRAPHICS, Doctorate, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017
Thesis, Postgraduate, 2021 - 2022
Molecular Modelling and Graphics, Undergraduate, 2021 - 2022
General Chemistry, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Probability and Biostatistics, Undergraduate, 2018 - 2019
General Chemistry I, Undergraduate, 2018 - 2019
Seminar, Postgraduate, 2017 - 2018
Biostatistics, Undergraduate, 2016 - 2017, 2015 - 2016
Research Planning in Health Sciences, Postgraduate, 2015 - 2016
Environment Protection, Associate Degree, 2015 - 2016
Research Methodologies in Health Services, Undergraduate, 2015 - 2016
Biostatistics, Associate Degree, 2015 - 2016, 2014 - 2015
Biostatistics, Postgraduate, 2015 - 2016
Research Methodologies in Health Sciences, Undergraduate, 2015 - 2016
Environment Protection, Associate Degree, 2015 - 2016
Biostatistics, Associate Degree, 2015 - 2016, 2014 - 2015
Biostatistics, Postgraduate, 2015 - 2016
Introduction to Environmental Health, Associate Degree, 2014 - 2015
Introduction to Environmental Health, Associate Degree, 2014 - 2015
Introduction to Computing and Information Systems, Undergraduate, 2013 - 2014
Statistics, Undergraduate, 2013 - 2014, 2012 - 2013
Introduction to Computing and Information Systems, Undergraduate, 2013 - 2014
Molecular Modelling and Graphics, Postgraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Computational Methods and Tools, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Introduction to Computing and Information Systems, Undergraduate, 2012 - 2013
Computational Molecular Biology and Genomics, Postgraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Bioinformatics, Undergraduate, 2011 - 2012
Introduction to Computing and Information Systems, Undergraduate, 2011 - 2012, 2010 - 2011
Rich Internet Applications, Undergraduate, 2010 - 2011
Molecular Modelling and Graphics, Postgraduate, 2009 - 2010
Computational Molecular Biology and Genomics, Postgraduate, 2009 - 2010

Advising Theses

Özal İldeniz T. A., Molecular Modelling of Antimicrobial Peptides, Postgraduate, S.Atasever(Student), 2023
 Özal İldeniz T. A., Concurrent impact of various prospective drug ligand molecules on different illness/disease mechanisms, Postgraduate, B.BUTURAK(Student), 2013
 Özal İldeniz T. A., Molecular dynamic studies of human dat and its natural ligand dopamine, Postgraduate, S.DEMİRCİ(Student), 2012
 Özal İldeniz T. A., Structure prediction of human DAT and its binding analysis, Postgraduate, G.TATAR(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Detection of cholera toxin with surface plasmon field-enhanced fluorescent spectroscopy**
 Seherler S., Bozdogan A., Özal İldeniz T. A., Kök F. N., Sakir I. A.
 BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, vol.69, no.4, pp.1557-1566, 2022 (SCI-Expanded)
- II. **Designing of multi-targeted molecules using combination of molecular screening and in silico drug cardiotoxicity prediction approaches**
 Buturak B., Durdagi S., Noskov S. Y., İldeniz A. T. O.
 Journal of Molecular Graphics and Modelling, vol.50, pp.16-34, 2014 (SCI-Expanded)
- III. **Modeling solubilities of additives in polymer micro structures: Single-step perturbation method based on a soft-cavity reference state**
 Oezal T. A., Peter C., Hess B., van der Vegt N. F. A.
 MACROMOLECULES, vol.41, no.13, pp.5055-5061, 2008 (SCI-Expanded)
- IV. **Fast-growth thermodynamic integration: Calculating excess chemical Potentials of additive molecules in polymer microstructures**
 Hess B., Peter C., Ozal T. A., van der Vegt N. F. A.
 MACROMOLECULES, vol.41, no.6, pp.2283-2289, 2008 (SCI-Expanded)
- V. **Confusing cause and effect: Energy-entropy compensation in the preferential solvation of a nonpolar solute in dimethyl sulfoxide/water mixtures**
 Ozal T. A., van der Vegt N. F. A.
 JOURNAL OF PHYSICAL CHEMISTRY B, vol.110, no.24, pp.12104-12112, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Peptide Antibiotics Developed by Mimicking Natural Antimicrobial Peptides**
 Nihan Ü., Çınaroğlu S. S., Elmas Açikel M., Akçelik S., ÖZAL İLDENİZ T. A., ARBAK S., Allahverdiyev A., KOCAGÖZ Z. T.
 Clinical Microbiology: Open Access, vol.6, no.4, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Nanotıp: Moleküler Modelleme**
 Özal İldeniz T. A.
 in: Nanobiotechnology, Akın A, Editor, Türkiye Klinikleri Yayınevi, Ankara, pp.6-12, 2021
- II. **Modeling of Cell Membrane Systems**
 Özal İldeniz T. A.
 in: Biomimetic Lipid Membranes: Fundamentals, Applications, and Commercialization, Fatma Neşe Kök,Ahu Arslan Yıldız,Fatih İnci, Editor, Springer, London/Berlin , Zug, pp.73-108, 2019
- III. **Chemical Characterization of Sinopean Archaeological Common Ware: Chemistry Behind Ceramics**
 Özal İldeniz T. A.
 LAP LAMBERT Academic Publishing, Saarbrücken, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Molecular Dynamic Simulation of Interaction Between Crimean-Congo Haemorrhagic Fever Virus Glycoprotein and Epidermal Growth Factor Receptor (EGFR)**
Özal İldeniz T. A., Atasever S.
5th International Symposium on Bioinformatics, İstanbul, Turkey, 15 - 17 December 2021, pp.66
- II. **MOLECULAR DYNAMICS SIMULATIONS OF PEPTIDE ANTIBIOTICS DEVELOPED BY MIMICKING NATURAL ANTIMICROBIAL PEPTIDES**
Özal İldeniz T. A.
THE 12TH INTERNATIONAL SYMPOSIUM ON HEALTH INFORMATICS AND BIOINFORMATICS, İzmir, Turkey, 17 October 2019 - 19 June 2021, pp.109-110
- III. **Surface Plasmon Florescence Spectroscopy Based Biosensor for Cholera Toxin Detection**
BOZDOĞAN A., SEHERLER Ş., ÖZAL İLDENİZ T. A., KÖK F. N., ANAÇ İ.
2017 21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 24 November - 26 December 2017
- IV. **Molecular Modelling in Biosensor Desgin for Cholera Toxin Detection**
Çınaroğlu S., ANAÇ İ., KÖK F. N., ÖZAL İLDENİZ T. A.
2017 21st National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 24 November - 26 December 2017
- V. **Detection of bacterial toxins via surface plasmon resonance with florescence spectroscopy based biosensor**
Seherler Ş., BOZDOĞAN A., ÖZAL İLDENİZ T. A., ANAÇ İ., KÖK F. N.
Malta VIII Frontiers of Science and Education in the Middle East, Malta, 10 - 15 December 2017
- VI. **Detection of bacterial toxins via surface plasmon resonance with florescence spectroscopy based biosensor**
Seherler Ş., BOZDOĞAN A., ÖZAL İLDENİZ T. A., ANAÇ İ., KÖK F. N.
International Biosensor Conference (BBMEC12), Roma, Italy, 25 - 28 September 2017
- VII. **COMP 44-Free energy calculations of molecular solutes in polymeric microstructures**
van der Vegt N. F. A., Hess B., Ozal T. A., Peter C.
235th American-Chemical-Society National Meeting, Louisiana, United States Of America, 6 - 10 April 2008, vol.235
- VIII. **COMP 86-Thermodynamics of solvent reorganization in solvent/co-solvent mixtures**
van der Vegt N. F. A., Lee M., Ozal T. A.
235th American-Chemical-Society National Meeting, Louisiana, United States Of America, 6 - 10 April 2008, vol.235

Supported Projects

Özal İldeniz T. A., Foundation, "Kırım Kongo Kanamalı Ateşi Virüsüne ait Yapının (6VKF) Modellenerek İncelenmesi", 2021 - 2022

ÜNÜBOL N., ÖZAL İLDENİZ T. A., TUBITAK Project, Biyofilm Oluşturan Bakterilere Özgü Geliştirilecek Peptit Antibiyotikler ve Yenilikçi Yüzey Bağlama Stratejileri Kullanılarak Antimikrobiyal Kateterlerin Geliştirilmesi, 2019 - 2021

ARBAK S., KANLIDERE Z., ÜNÜBOL N., CAN Ö., SÜYEN G., KOCAGÖZ Z. T., ÖZAL İLDENİZ T. A., TUBITAK Project, Doğadan Esinlenerek Antimikrobiyal Peptit ve Benzerlerinin Geliştirilmesi, 2018 - 2021

Özal İldeniz T. A., Eren T., TUBITAK Project, Doğal antimikrobiyal peptit türevlerinin sentetik polimerler ile çift etki (elektrostatik/hidrofobik etkileşme ve lektin proteinin inhibasyonu) sağlayarak taklit edilmesi, 2018 - 2021

Özal İldeniz T. A., Kök F. N., Anaç İ., TUBITAK Project, Suyla Bulasan Patojenlerin Yüzey Plazmon Floresan Spektroskopik Tekniği ile Hızlı Tayini, 2016 - 2018

Activities in Scientific Journals

Scientific Refereeing

KOSGEB, Acibadem Mehmet Ali Aydinlar University, Turkey, December 2023

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, December 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, December 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, September 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, September 2022

KOSGEB, Acibadem Mehmet Ali Aydinlar University, Turkey, August 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, July 2022

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Acibadem Mehmet Ali Aydinlar University, Turkey, July 2022

KOSGEB, Acibadem Mehmet Ali Aydinlar University, Turkey, April 2022

KOSGEB, Acibadem Mehmet Ali Aydinlar University, Turkey, March 2022

Tasks In Event Organizations

Özal İlideniz T. A., 13th The International Symposium on Health Informatics and Bioinformatics (HIBIT 2020), Scientific Congress, İstanbul, Turkey, Eylül 2020

Özal İlideniz T. A., HIBIT'19, Scientific Congress, İzmir, Turkey, Ekim 2019

Metrics

Publication: 18

Citation (WoS): 86

Citation (Scopus): 81

H-Index (WoS): 4

H-Index (Scopus): 4

Awards

Özal İlideniz T. A., Outstanding teaching award, Acibadem Mehmet Ali Aydinlar Üniversitesi , September 2021