

## Assoc. Prof. MURAT DURAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: U-9493-2017

ScopusID: 7202533240

Yoksis Researcher ID: 186679

### Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), Turkey 2000 - 2006

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), Turkey 1997 - 2000

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1993 - 1997

### Dissertations

Doctorate, Biyolojik aktif ve ilaç öncüsü olan bazı tiyazol türevlerinin sentezi yapı-etki ilişkilerinin deneysel ve teorik incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), 2006

Postgraduate, Bazı pirol makrohalkalarının tautomerik dengelerinin teorik incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), 2000

### Research Areas

Organic Chemistry

### Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2015 - Continues

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 1998 - 2015

### Academic and Administrative Experience

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2015 - 2016

### Courses

Organik Kimyada Kromatografik Yöntemler, Undergraduate, 2017 - 2018

KİMYA, Undergraduate, 2017 - 2018, 2016 - 2017

İlaç Öncüsü Heterohalkalı Bileşikler, Undergraduate, 2017 - 2018

Yeşil Organik Kimya, Undergraduate, 2017 - 2018  
Organik Kimyada Reaksiyon Mekanizmaları, Undergraduate, 2017 - 2018  
Kimya Lab., Undergraduate, 2017 - 2018  
Organik Kimya Lab. I, Undergraduate, 2017 - 2018  
ORGANİK SENTEZ TASARIMI, Undergraduate, 2017 - 2018  
Organik Kimya Lab. II, Undergraduate, 2017 - 2018  
Organik Kimya IV, Undergraduate, 2016 - 2017  
Karbonil Bileşikleri ve Karboksilik asit türevleri, Undergraduate, 2016 - 2017  
Organik Kimya, Undergraduate, 2016 - 2017

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

- I. **Synthesis, antimicrobial activity and modeling studies of thiazoles bearing pyridyl and triazolyl scaffolds**  
Funda Tay N. F., Berk B., DURAN M., Kayagil A., Yurttas L., Biltekin Kaleli S. N., YAMAÇ M., Karaduman A. B., Demirayak A. E.  
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.77, no.9-10, pp.429-446, 2022 (SCI-Expanded)
- II. **Synthesis, antimicrobial and antioxidant activities of pyridyl substituted thiazolyl triazole derivatives**  
TAY N. F., DURAN M., Kayagil I., Yurttas L., GÖGER G., Goger F., Demirci F., Demirayak S.  
BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.58, 2022 (SCI-Expanded)
- III. **Arylamino Substituted Mercaptoimidazole Derivatives as New Corrosion Inhibitors for Carbon Steel in Acidic Media: Experimental and Computational Study**  
Duran B., Yurttas L., Duran M.  
JOURNAL OF ELECTROCHEMICAL SCIENCE AND TECHNOLOGY, vol.12, no.3, pp.365-376, 2021 (SCI-Expanded)
- IV. **Synthesis and antimicrobial activity evaluation of new dithiocarbamate derivatives bearing thiazole/benzothiazole rings**  
YURTTAŞ L., ÖZKAY Y., DURAN M., Turan-Zitouni G., ÖZDEMİR A., CANTÜRK Z., KÜÇÜKOĞLU K., KAPLANCIKLI Z. A.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.191, no.8, pp.1166-1173, 2016 (SCI-Expanded)
- V. **A quantum chemical DFT/HF study on acidity constants of some benzothiazole and thiazole derivatives**  
TAY N. F., DURAN M., DEMİRAYAK Ş.  
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY, vol.53, no.1, pp.102-110, 2014 (SCI-Expanded)
- VI. **Synthesis and initial biological evaluation of substituted 1-phenylamino-2-thio-4,5-dimethyl-1H-imidazole derivatives**  
YURTTAŞ L., DURAN M., DEMİRAYAK Ş., KARACA GENÇER H., TUNALI Y.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.23, no.24, pp.6764-6768, 2013 (SCI-Expanded)
- VII. **Synthesis of 2-[4,5-dimethyl-1-(phenylamino)-1H-imidazol-2-ylthio]-N-(thiazole-2-yl)acetamide derivatives and their anticancer activities**  
DURAN M., DEMİRAYAK Ş.  
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.9, pp.4110-4124, 2013 (SCI-Expanded)
- VIII. **pK(a) Determination of Newly Synthesized N-(benzothiazole-2-yl)-2-(4,5-dimethyl-1-(phenylamino)-1H-imidazol-2-ylthio)acetamide Derivatives**  
DURAN M., CANBAZ M.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, no.25, pp.8355-8360, 2013 (SCI-Expanded)
- IX. **Experimental and theoretical studies on protective properties of poly(pyrrole-co-N-methyl pyrrole) coatings on copper in chloride media**  
Cakmakci I., Duran B., Duran M., Bereket G.

CORROSION SCIENCE, vol.69, pp.252-261, 2013 (SCI-Expanded)

- X. **Ab initio studies on acidity and tautomeric equilibrium constants of some benzoxa-, benzothia-, benzoselena-zolinone derivatives**  
DURAN M., AYDEMİR S.  
COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.989, pp.69-74, 2012 (SCI-Expanded)
- XI. **Electrochemical synthesis and characterization of poly(m-phenylenediamine) films on copper for corrosion protection**  
Duran B., Bereket G., Duran M.  
PROGRESS IN ORGANIC COATINGS, vol.73, pp.162-168, 2012 (SCI-Expanded)
- XII. **Experimental and Theoretical Studies on Tautomerism and Acid-Base Behavior of N-(2-Oxo-2H-chromen-3-yl)acetamide**  
Ogretir C., DURAN M., AYDEMİR S.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.12, pp.5634-5641, 2010 (SCI-Expanded)
- XIII. **Spectroscopic and Theoretical Study on Isomerism, Prototautomerism, and Acid Dissociation Constants of 2-Hydroxy-3-(3-oxo-1-phenylbutyl)chromen-4-one**  
Ogretir C., AYDEMİR S., DURAN M., Kilickaya M. S.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.4, pp.1477-1485, 2010 (SCI-Expanded)
- XIV. **Spectroscopic Determination and Evaluation of Acidity Constants for Some Drug Precursor 2-Amino-4-(3-or 4-substituted phenyl) Thiazole Derivatives**  
Ogretir C., DEMİRAYAK Ş., DURAN M.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.3, pp.1137-1142, 2010 (SCI-Expanded)
- XV. **Determination and evaluation of acid dissociation constants of some substituted 2-aminobenzothiazole derivatives**  
Ogretir C., DEMİRAYAK Ş., TAY N. F., DURAN M.  
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.53, no.2, pp.422-426, 2008 (SCI-Expanded)
- XVI. **MNDO, AM1, and PM3 study of the protonation tautomerization and valence tautomerization equilibria of some pyrrole macrocycles**  
Tokay N., Ogretir C., DURAN M.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.589, pp.43-53, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **DETERMINATION AND EVALUATION OF ACIDITY CONSTANTS OF SOMEIMIDAZOLE AND THIAZOLE LINKED ACETAMIDE COMPOUNDS**  
Tay N. F., Duran M., İspir C., Demirayak Ş.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.17, no.2, pp.263-272, 2016 (Peer-Reviewed Journal)

## Supported Projects

Duran B., Duran M., Yurttaş L., Project Supported by Higher Education Institutions, Synthesis of arylamino substituted mercapto imidazole derivatives and investigation of inhibitor effects on corrosion of low carbon steel in acidic medium, 2018 - 2020

Duran M., Yurttaş L., Project Supported by Other Official Institutions, 4 2 Pirimidinil piperazin 1 karboditiyoik asit türevlerinin sentezi ve antikolinesteraz aktivitelerinin araştırılması, 2013 - 2015

Duran M., Tay N. F., Demirayak Ş., Project Supported by Other Official Institutions, Bazı piridil substitue tiyazolil triazol türevlerinin sentezi ve antimikrobiyal etkilerinin araştırılması, 2011 - 2014

Duran M., Demirayak Ş., Project Supported by Other Official Institutions, Bazı ilaç öncüsü 2 ariloil benzofuran türevlerinin sentezi ve antikanser etkilerinin saptanması, 2009 - 2012

Duran M., Demirayak Ő., Tay N. F., Project Supported by Other Official Institutions, Biyolojik aktifliđi olan ila ncüsü bazı benzotiyazol ve piridil tiyazol türevleri üzerinde kimyasal alıřmalar, 2004 - 2007

## **Metrics**

Publication: 17

Citation (WoS): 176

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