

Assoc. Prof. DİLARA ÖZBAKIR İŞİN

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1996 - 2003

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1994 - 1996

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1989 - 1993

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, 2-Pirolidonun yapısal özellikleri ve dimer oluşumu üzerine bağlı grup etkisinin AB initio moleküller orbital yöntemleriyle incelenmesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2003

Postgraduate, Bazı organik bileşiklerin indirgenme tepkimeleri, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1996

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2004 - 2021

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 1994 - 2004

Academic and Administrative Experience

Deputy Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - 2012

Courses

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020
Organik Kimya - II, Undergraduate, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019
Organik Kimya, Undergraduate, 2019 - 2020
Tez Çalışması, Doctorate, 2018 - 2019
Teorik Organik Kimyaya Giriş, Undergraduate, 2018 - 2019
Tez Çalışması, Postgraduate, 2018 - 2019
Organik Kimya, Undergraduate, 2019 - 2020
UZMANLIK ALAN DERSİ, Postgraduate, 2017 - 2018, 2016 - 2017
Organik Tepkime Mekanizmaları, Undergraduate, 2018 - 2019
Organik Kimya, Undergraduate, 2017 - 2018
Organik Tepkime Mekanizmaları, Undergraduate, 2018 - 2019
ORGANİK KİMYANIN İLKELERİ, Doctorate, 2017 - 2018, 2016 - 2017
ORGANİK KİMYA, Undergraduate, 2017 - 2018, 2016 - 2017
Organik Kimya - I, Undergraduate, 2018 - 2019
Organik Kimyanın İlkeleri, Doctorate, 2018 - 2019
Uzmanlık Alan Dersi, Doctorate, 2017 - 2018
ORGANİK KİMYA LAB., Undergraduate, 2017 - 2018
TEORİK ORGANİK KİMYAYA GİRİŞ, Undergraduate, 2017 - 2018, 2016 - 2017
ORGANİK TEPKİME MEKANİZMALARI, Undergraduate, 2017 - 2018
ORGANİK KİMYA-II, Undergraduate, 2017 - 2018, 2016 - 2017
ORGANİK KİMYA-I, Undergraduate, 2017 - 2018
BİTİRME ÖDEVİ, Undergraduate, 2017 - 2018
Bitirme Ödevi/Tezi, Undergraduate, 2017 - 2018
Teorik Organik Kimyaya Giriş, Undergraduate, 2015 - 2016
Organik Kimya II, Undergraduate, 2014 - 2015
Seminer Dersi, Doctorate, 2015 - 2016
Bitirme Ödevi/Tezi, Undergraduate, 2014 - 2015
Seminer Dersi, Postgraduate, 2013 - 2014
Organik Kimya I, Undergraduate, 2014 - 2015
Organik Kimya I Lab., Undergraduate, 2012 - 2013
Organik Kimya II Lab., Undergraduate, 2011 - 2012
Genel Kimya I, Undergraduate, 2011 - 2012
Genel Kimya, Undergraduate, 2010 - 2011
Genel Kimya Laboratuvarı I, Undergraduate, 2010 - 2011
Genel Kimya, Undergraduate, 2009 - 2010
Organik Kimya Lab, Undergraduate, 2008 - 2009
Genel Kimya Laboratuvarı I, Undergraduate, 2009 - 2010
Genel Kimya II, Undergraduate, 2007 - 2008
Genel Kimya II, Undergraduate, 2008 - 2009
Genel Kimya Lab - II, Undergraduate, 2006 - 2007
Organik Kimya, Undergraduate, 2006 - 2007
Organik Kimya, Undergraduate, 2006 - 2007
Kimya IV, Undergraduate, 2005 - 2006

Advising Theses

Özbakır İşin D., Bazı flavonoidlerin antioksidan özelliklerinin yoğunluk fonksiyonel teorisi (DFT) ile incelenmesi,

Doctorate, Ş.ERDOĞAN(Student), 2022

Özbakır İşin D., 3-stirilkromon türevlerinin antioksidan etkinliklerinin kuantum mekaniksel incelenmesi, Postgraduate, E.ÇAKMAK(Student), 2019

ÖZBAKIR İŞİN D., Urazolün proton transfer tepkimelerinin ab initio moleküler orbital yöntemleri ile incelenmesi, Postgraduate, Ş.ERDOĞAN(Student), 2012

ÖZBAKIR İŞİN D., 3-hidroksitropolonun proton transfer tepkimesi üzerine bağlı grup ve çözücü etkilerinin ab initio moleküler orbital yöntemleri ile incelenmesi, Postgraduate, V.GÜL(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Molecular docking and A DFT study on the antiradical activity of naringenin and hesperetin with nitric oxide, peroxy, and methoxy radicals**
Erdoğan Ş., Özbakır İşin D.
Journal of Physical Organic Chemistry, vol.36, no.4, 2023 (SCI-Expanded)
- II. **Molecular insights into the corrosion inhibition mechanism of omeprazole and tinidazole: a theoretical investigation**
Kaya S., Lgaz H., Thakkur A., Kumar A., Özbakır İşin D., Karakuş N., Ben Ahmed S.
Molecular Simulation, vol.49, no.17, pp.1632-1646, 2023 (SCI-Expanded)
- III. **Kaya's composite descriptor and Maximum Composite Hardness Rule for chemical reactions**
Kaya S., Özbakır İşin D., Karakuş N.
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.99, no.3, 2022 (SCI-Expanded)
- IV. **A DFT study on OH radical scavenging activities of eriodictyol, Isosakuranetin and pinocembrin**
Erdogan S., ÖZBAKIR İŞİN D.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.21, pp.10802-10811, 2022 (SCI-Expanded)
- V. **Theoretical insights about inhibition efficiencies of some 8-Hydroxyqionoline derivatives against the corrosion of mild steel**
ÖZBAKIR İŞİN D., KARAKUŞ N., Lgaz H., KAYA S., Chung I.
MOLECULAR SIMULATION, vol.46, no.17, pp.1398-1404, 2020 (SCI-Expanded)
- VI. **Spectral analysis and detailed quantum mechanical investigation of some acetanilide analogues and their self-assemblies with graphene and fullerene**
Almuqrin A. H., Al-Otaibi J. S., Mary Y. S., Thomas R., KAYA S., ÖZBAKIR İŞİN D.
JOURNAL OF MOLECULAR MODELING, vol.26, no.9, 2020 (SCI-Expanded)
- VII. **A theoretical evaluation on free radical scavenging activity of 3-styrylchromone derivatives: the DFT study**
Çakmak E., ÖZBAKIR İŞİN D.
JOURNAL OF MOLECULAR MODELING, vol.26, no.5, 2020 (SCI-Expanded)
- VIII. **A computational study on corrosion inhibition performances of novel quinoline derivatives against the corrosion of iron**
ERDOĞAN Ş., Safi Z. S., KAYA S., ÖZBAKIR İŞİN D., Guo L., KAYA C.
JOURNAL OF MOLECULAR STRUCTURE, vol.1134, pp.751-761, 2017 (SCI-Expanded)
- IX. **Theoretical study on the investigation of antioxidant properties of some hydroxyanthraquinones**
ÖZBAKIR İŞİN D.
MOLECULAR PHYSICS, vol.114, no.24, pp.3578-3588, 2016 (SCI-Expanded)
- X. **Quantum chemical study on the inhibition efficiencies of some sym-triazines as inhibitors for mild steel in acidic medium**
ÖZBAKIR İŞİN D., KARAKUŞ N.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.50, pp.306-313, 2015 (SCI-Expanded)
- XI. **Theoretical Study on the Self- and Water-Assisted Proton Transfer Reaction of Urazole**
Erdogan S., Isin D.
CHEMISTRY OF HETEROCYCLIC COMPOUNDS, vol.50, no.7, pp.986-997, 2014 (SCI-Expanded)

- XII. Computational Investigation of the Substituent Effect on the Intramolecular Proton Transfer Reaction of 3-Hydroxytropolone
 Gul V., ÖZBAKIR İŞİN D.
 CHINESE JOURNAL OF STRUCTURAL CHEMISTRY, vol.33, no.12, pp.1757-1767, 2014 (SCI-Expanded)
- XIII. Computational study of the intramolecular proton transfer reactions of 3-hydroxytropolone (2,7-dihydroxycyclohepta-2,4,6-trien-1-one) and its dimers
 ÖZBAKIR İŞİN D., KARAKUŞ N.
 JOURNAL OF MOLECULAR MODELING, vol.16, no.12, pp.1877-1882, 2010 (SCI-Expanded)
- XIV. A computational study on the self-association of -CN, -NH₂, -CH₃ and -C(CH₃)₃ derivatives of 2-pyrrolidinone
 Isin D., Yekeler H.
 JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.685, pp.117-126, 2004 (SCI-Expanded)
- XV. Concerning the solvent effect in the tautomerism of uracil, 5-fluorouracil, and thymine by density-functional theory and ab initio calculations
 Yekeler H., Ozbakir D.
 JOURNAL OF MOLECULAR MODELING, vol.7, no.4, pp.103-111, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. DFT Study on Antioxidant Action Mechanisms of Naphthoquinone-Urazole Hybrids
 ÖZBAKIR İŞİN D.
 Cumhuriyet Science Journal, vol.39, no.3, pp.734-744, 2018 (Peer-Reviewed Journal)
- II. DENSITY FUNCTIONAL THEORY STUDY OF THE ANTIOXIDANTACTIVITY OF FORMLY CHROMONE SCHIFF BASES
 ÖZBAKIR İŞİN D.
 Journal of the Turkish Chemical Society, Section A: Chemistry, vol.2, no.2, pp.78-80, 2015 (Peer-Reviewed Journal)
- III. CORROSION INHIBITION EFFECT OF SOME AMINO SUBSTITUTEDTHIADIAZOLES ON COPPER QUANTUM CHEMICAL STUDY
 KARAKUŞ N., ÖZBAKIR İŞİN D.
 Journal of the Turkish Chemical Society, Section A: Chemistry, vol.2, no.2, pp.62-66, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. ÇINKO, BAKIR VE DEMİRİN SULU ORTAMLarda BAZı ORGANİK MADDELERLE KOROZYONUN İNCELENMESİ
 ÖZBAKIR İŞİN D., ERDOĞAN Ş.
 1. ULUSLARARASI MALATYA UYGULAMALı BİLİMLER KONGRESİ, Malatya, Turkey, 20 - 22 December 2019, vol.2, pp.221-226
- II. İHLAMUR (*Tilia Cordata*) BİTKİSİNDE BULUNAN NARİNGENİN BİLESİĞİNİN ANTİOKSİDAN ETKİ MEKANİZMASI VE AKTİOKSİDAN ÖZELLİKLERİNİN İNCELENMESİ
 ERDOĞAN Ş., ÖZBAKIR İŞİN D.
 1. ULUSLARARASI MALATYA UYGULAMALı BİLİMLER KONGRESİ, Malatya, Turkey, 20 - 22 December 2019, vol.2, pp.227-233
- III. The Theoretical Investigation on the Antioxidant Activity of Some Naphthoquinone-Urazole Hybrids
 ÖZBAKIR İŞİN D.
 20th International Conference on Advances in Chemistry and Applied Chemistry, 30 - 31 January 2018
- IV. Investigation of antioxidant properties of some hydroxyanthraquinones A Density Functional Theory Study
 ÖZBAKIR İŞİN D.

28. Ulusal Kimya Kongresi, Mersin, Turkey, 15 - 21 August 2016
- V. **Density functional theory study of the antioxidantactivity of formly chromone schiff bases**
ÖZBAKIR İŞİN D.
XI. Chemical Physics Congress, 17 - 18 October 2014
- VI. **Quantum Chemical Study on the Inhibition Efficiencies of Some Sym triazines as Inhibitors for Mild Steel in Acidic Medium**
ÖZBAKIR İŞİN D., KARAKUŞ N.
XI. Chemical Physics Congress, 17 - 18 October 2014
- VII. **Corrosion Inhibition Effect of Some Amino Substituted Thiadiazoles on Copper Quantum Chemical Study**
KARAKUŞ N., ÖZBAKIR İŞİN D.
XI. Kimyasal Fizik Kongresi Piri Reis Üniversitesi, İstanbul, 17 - 18 October 2014
- VIII. **The investigation of the proton transfer reactions of urazole by ab initio molecular orbital theory**
ERDOĞAN Ş., ÖZBAKIR İŞİN D.
Chemical Physics X, 10 - 12 October 2012
- IX. **3 Hidroksitropolonun Proton Transfer Tepkimesi Üzerine Bağlı Grup Etkisinin DFT Yöntemiyle İncelenmesi**
Gül V., ÖZBAKIR İŞİN D.
XXV. Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2011
- X. **3 Hidroksitropolonun Proton Transfer Tepkimesi Üzerine Çözücü Etkisinin DFT Yöntemiyle İncelenmesi**
ÖZBAKIR İŞİN D., KARAKUŞ N.
24. Ulusal Kimya Kongresi, Zonguldak Karaelmas Üniversitesi, Turkey, 2 June - 02 July 2010
- XI. **A computational study on self association of CN and NH₂ of 2 pyrrolidinone**
ÖZBAKIR İŞİN D., YEKELER H.
Chemical Physics V, 31 October - 01 November 2002
- XII. **Investigation of solvent effect on the tautomerism of thymine by density functional theory and ab initio calculations**
ÖZBAKIR D., YEKELER H.
Chemical Physics IV, 28 - 29 October 2000
- XIII. **Bazı Organik Bileşiklerin İndirgenme Tepkimeleri**
ÖZBAKIR D., ÖZKAN R.
XIII. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999

Metrics

Publication: 31
Citation (WoS): 240
Citation (Scopus): 300
H-Index (WoS): 6
H-Index (Scopus): 6