

Assoc. Prof. TUĞBA ARİFİOĞLU

Personal Information

Office Phone: [+90 312 297 6297](tel:+903122976297)

Fax Phone: [+90 312 299 2163](tel:+903122992163)

Other Email: ttugsuz@hacettepe.edu.tr

Web: <http://yunus.hacettepe.edu.tr/~ttugsuz/>

International Researcher IDs

ORCID: 0000-0002-1407-1374

ScopusID: 8658356100

Yoksis Researcher ID: 117169

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A theoretical investigation on the adsorption of heavy metals on dye containing zeolite, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2007

Postgraduate, Cam yapısı ve sulu piridin-2,6-dikarboksilat komplekslerinde terbium luminesansının deneysel ve teorik incelenmesi, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2001

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2017 - Continues

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1999 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- A Study on the Luminescent Terbium(III) and Pyridine 2,6 Dicarboxylate Complexes by Experimental and TD-DFT Approaches**
Tugsuz T., YÜKSEL D., GÖKOĞLU E., Ateş S.
Journal of Fluorescence, vol.33, no.3, pp.1057-1065, 2023 (SCI-Expanded)
- Molecularly Designed Ion-Imprinted Nanoparticles for Real-Time Sensing of Cu(II) Ions Using Quartz Crystal Microbalance**
Aydoğan N., Aylaz G., YÜCEL M., ARİFİOĞLU T., ANDAÇ A. M.
Biomimetics, vol.7, no.4, 2022 (SCI-Expanded)
- Structure-Property Relationship in Amber Color Light-Emitting Electrochemical Cell with TFSI**

Counteranion: Enhancing Device Performance by Different Substituents on N boolean AND N Ligand

Demir N., Karaman M., Yakali G., ARİFİOĞLU T., DENİZALTI S., DEMİÇ Ş., DİNDAR B., CAN M.

INORGANIC CHEMISTRY, vol.60, no.7, pp.4410-4423, 2021 (SCI-Expanded)

- IV. **Supramolecular Orange-Red- and Yellow-Emitting Ir(III) Complexes with TFSI and PF6 Counteranions and Production of LEC Devices**
Demir N., Karaman M., Yakali G., GÜLTEKİN B., ARİFİOĞLU T., DENİZALTI S., Demic S., AYGÜN M., DİNDAR B., Can M.
ACS APPLIED ELECTRONIC MATERIALS, vol.2, no.11, pp.3549-3561, 2020 (SCI-Expanded)
- V. **TD-DFT study of the absorption and emission spectra of blue to red phosphorescent Ir(III) complexes**
Tugsuz T.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.20, pp.149-158, 2018 (SCI-Expanded)
- VI. **Low-Temperature Preparation of Ag-Doped ZnO Nanowire Arrays, DFT Study, and Application to Light-Emitting Diode**
Pauporte T., Lupan O., Zhang J., Tugsuz T., Ciofini I., Labat F., Viana B.
ACS APPLIED MATERIALS & INTERFACES, vol.7, no.22, pp.11871-11880, 2015 (SCI-Expanded)
- VII. **A combined first principles TDDFT and experimental study on the UV-Vis spectra properties of M(p-nitrophenyl azo resorcinol)(3) complexes (M: Fe, Cr)**
Tugsuz Arifioglu T., EFECINAR M., ŞATIROĞLU N.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.1, pp.99-108, 2014 (SCI-Expanded)
- VIII. **A DFT study on the standard electrode potentials of 2-substituted imidazoles**
Tugsuz T.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.113, no.5, pp.715-722, 2013 (SCI-Expanded)
- IX. **Amphiphilic acids as co-adsorbents of metal-free organic dyes for the efficient sensitization of nanostructured photoelectrode**
Magne C., Urien M., Ciofini I., Tugsuz T., Pauporte T.
RSC ADVANCES, vol.2, no.31, pp.11836-11842, 2012 (SCI-Expanded)
- X. **DFT Study on the Standard Electrode Potentials of Imidazole, Tetrathiafulvalene, and Tetrathiafulvalene-Imidazole**
Tugsuz T.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.114, no.51, pp.17092-17101, 2010 (SCI-Expanded)
- XI. **Electrostatic spin crossover effect in polar magnetic molecules**
Baadji N., Piacenza M., Tugsuz T., Della Sala F., Maruccio G., Sanvito S.
NATURE MATERIALS, vol.8, no.10, pp.813-817, 2009 (SCI-Expanded)
- XII. **A DFT study on the structures and absorption spectra of the M-1-nitroso-2-naphthol complexes (M = Ni, Cu, Cr, Cd, Pb)**
Tügsüz T., Sevin F.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.775, pp.29-37, 2006 (SCI-Expanded)
- XIII. **A theoretical study on the location of Ni²⁺, Cu²⁺, Cr²⁺, Cd²⁺ and Pb²⁺ in zeolite Y**
Tügsüz T., Doğan M., Sevin F.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.728, pp.103-109, 2005 (SCI-Expanded)
- XIV. **Determination of H₂O₂ content of various water samples using a chemiluminescence technique**
Tugsuz T., Gok E., Ates S.
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.1, pp.41-47, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fluorimetric Labeling of Insulin A Theoretical Approach to The Conjugation of Fluorescein Isothiocyanate**

Gökoğlu E., Tügsüz T., Akbay N., Olgaz S., Ateş S.

MBCAC IV 4th Mediterranean Basin Conference on Analytical Chemistry, Ljubljana, Slovenia, 15 - 20 September

Supported Projects

ALTUNTAŞ ÖZTAŞ N., TEMELLİ B., KAVLAK S., KURALAY F., ARİFİOĞLU T., Project Supported by Higher Education Institutions, Yeni Nesil Malzemelerin XRD ve FTIR Metotlarıyla Karakterizasyonu, 2022 - Continues

ARİFİOĞLU T., ABACI S., YAZAR AYDIN Z., ARSLAN UDUM Y., Project Supported by Higher Education Institutions, YENİ KUŞAK YÜKSEK KALİTEDE NANOTEKNOLOJİK GÜNEŞ PANELİ TASARIMI ÜRETİMİ VE TARIM SEKTÖRÜNDE KULLANIMI, 2015 - 2018

ARİFİOĞLU T., ABACI S., Project Supported by Higher Education Institutions, Güneş pillerinde plazmonik güçlendirme, 2015 - 2016

ARİFİOĞLU T., Project Supported by Higher Education Institutions, GRAFEN BAZLI FOTOVOLTAİK PİL TASARIMI VE ÖZELLİKLERİNİN BELİRLENMESİ, 2014 - 2016

Arifioğlu T., Project Supported by Higher Education Institutions, Boya-Duyarlı Güneş Pilleri Verimliliğinin CdSe Nanoparçacıklarıyla Artırılması, 2012 - 2014

Sevin Düz F., Arifioğlu T., Project Supported by Higher Education Institutions, Atomik Karbon ve HfCl₄ ile Hafniyum Karben Oluşumu. Bölüm 1: 1-Okten ile Olefin Metatez Tepkimesinin İncelenmesi, 2009 - 2010

Arifioğlu T., Project Supported by Higher Education Institutions, İmidazol İndirgenme Potansiyeli Üzerine Sübstituent ve Çözücü Etkilerinin Kuantum Kimyasal Hesaplamaları, 2009 - 2010

Maruccio G., Arifioğlu T., FP6 Project, SPIDME (SPIntronic Devices for Molecular Electronics), 2006 - 2010

Sevin Düz F., Arifioğlu T., Project Supported by Higher Education Institutions, Boyar Madde Yüklenmiş Zeolit Üzerinde Ağır Metal Adsorpsiyonunun Deneysel ve Teorik Olarak İncelenmesi, 2002 - 2005

Scientific Refereeing

RSC ADVANCES, Journal Indexed in SCI-E, May 2017

JOURNAL OF PHYSICAL CHEMISTRY B, Journal Indexed in SCI-E, March 2012

JOURNAL OF PHYSICAL CHEMISTRY A, Journal Indexed in SCI-E, October 2011

Metrics

Publication: 15

Citation (WoS): 290

Citation (Scopus): 284

H-Index (WoS): 7

H-Index (Scopus): 6

Non Academic Experience

ENSCP ParisTech

National Nanotechnology Laboratory (NNL) İtalya Lecce Üniversitesi