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### International Researcher IDs

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### 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

- 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)
- 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)
- 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)
- IV. **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)
- V. **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 Arifioğlu T., EFECINAR M., ŞATIROĞLU N.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.1, pp.99-108, 2014 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **A theoretical study on the location of Ni<sup>2+</sup>, Cu<sup>2+</sup>, Cr<sup>2+</sup>, Cd<sup>2+</sup> and Pb<sup>2+</sup> in zeolite Y**  
Tügsüz T., Doğan M., Sevin F.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.728, pp.103-109, 2005 (SCI-Expanded)
- XII. **Determination of H<sub>2</sub>O<sub>2</sub> 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)

## 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 HfCl<sub>4</sub> ile Hafniyum Karben Oluşumu. Bölüm 1: 1-Okten ile Olefin Metatez Tepkimesinin İncelenmesi, 2009 - 2010

Arifiođlu T., Project Supported by Higher Education Institutions, İmidazol İndirgenme Potansiyeli Üzerine Sübstitüent ve Çözücü Etkilerinin Kuantum Kimyasal Hesaplamaları, 2009 - 2010  
Maruccio G., Arifiođlu T., FP6 Project, SPIDME (SPIntronic Devices for Molecular Electronics), 2006 - 2010  
Sevin Düz F., Arifiođlu 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: 12  
Citation (WoS): 286  
Citation (Scopus): 280  
H-Index (WoS): 7  
H-Index (Scopus): 6