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Education Information

Doctorate, Canakkale Onsekiz Mart University, Mekanik Ve Makine Elemanları, Kimya, Turkey
2012 - 2018

Postgraduate, Canakkale Onsekiz Mart University, Mekanik Ve Makine Elemanları, Kimya,
Turkey 2009 - 2012

Undergraduate, Hacettepe University, Fen-Edebiyat Fakltesi, Kimya, Turkey 2002 - 2008

Dissertations

Doctorate, İKİ- VE Ç-DİŐLİ BENZİMİDAZOL LİGANDLAR İÇEREN YENİ RUTENYUM KOMPLEKSLERİN SENTEZ VE
KARAKTERİZASYONLARI: DSSC'LER İÇİN YENİ BOYALAR, Canakkale Onsekiz Mart University, Fen Bilimleri Enstits,
Kimya/Anorganik Kimya, 2018

Postgraduate, Bazı Őıfalı bitkilerin ekonomiye kazandırılması: Tere (Lepidium sativum L.) bitkisinin antioksidan,
sitotoksik, enzim-aktif zt ve bileŐenlerinin belirlenmesi , Canakkale Onsekiz Mart University, Fen Bilimleri Enstits,
Kimya, 2012

Research Areas

Chemistry, Inorganic Chemistry, Catalysis, Organometallic Chemistry, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Canakkale Onsekiz Mart University, Fen Fakltesi, Kimya, 2018 - Continues

Research Assistant, Canakkale Onsekiz Mart University, Fen Fakltesi, Kimya, 2009 - 2018

Courses

Anorganik Kimya Laboratuvarı-II, Undergraduate, 2020 - 2021

Anorganik Kimya Labortauvarı-I , Undergraduate, 2020 - 2021

Genel Kimya Laboratuvarı (Biyoloji Blm), Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dye sensitized solar cell-based optoelectronic device using novel [Ru(L1)(L2)(NCS)2] complex**
Dayan O., İmer A. G. , Tercan Yavaşoğlu M., Dere A., Al-Sehemi A. G. , Al-Ghamdi A. A. , Yakuphanoglu F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1238, pp.1-9, 2021 (SCI-Expanded)
- II. **Catalytic and biological activities of homoleptic palladium(II) complexes bearing the 2-aminobenzothiazole moiety**
DAYAN S., TERCAN YAVAŞOĞLU M., ÖZDEMİR F. A. , AYKUTOĞLU G., ÖZDEMİR N., ŞERBETÇİ Z., DİNÇER M., DAYAN O.
POLYHEDRON, vol.199, 2021 (SCI-Expanded)
- III. **Investigation of the effect of alkyl substitution on DSSC efficiency of Ru(II) complexes bearing tridentate benzimidazole ligands**
TERCAN YAVAŞOĞLU M., DAYAN O.
INORGANIC AND NANO-METAL CHEMISTRY, vol.50, no.7, pp.545-554, 2020 (SCI-Expanded)
- IV. **P(2-VP) supported Ru(II) material as catalyst for H-2 production from the methanolysis of NaBH4**
TERCAN YAVAŞOĞLU M., Karacan Yeldir E., DAYAN O., ORAL A.
INORGANIC AND NANO-METAL CHEMISTRY, 2020 (SCI-Expanded)
- V. **Simultaneous degradation and reduction of multiple organic compounds by poly(vinyl imidazole) cryogel-templated Co, Ni, and Cu metal nanoparticles**
TERCAN YAVAŞOĞLU M., Demirci S., DAYAN O., ŞAHİNER N.
NEW JOURNAL OF CHEMISTRY, vol.44, no.11, pp.4417-4425, 2020 (SCI-Expanded)
- VI. **Synthesis, DFT computations and antimicrobial activity of a Schiff base derived from 2-hydroxynaphthaldehyde: remarkable solvent effect**
TERCAN M., Özdemir N., Özdemir F. A. , Şerbetçi Z., ERDENER ÇIRALI D., Çetinkaya B., DAYAN O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1, no.1, pp.1-11, 2020 (SCI-Expanded)
- VII. **The preparation of new palladium (II) complexes with Schiff base type ligands and its impregnated Al2O3 materials: As the catalysts for degradation/reduction of organic dyes**
Selvi G., Tercan M., Özdemir N., DAYAN O.
Applied Organometallic Chemistry, 2020 (SCI-Expanded)
- VIII. **Synthesis and DSSC Applications of Ru(II) Complexes Bearing Benzimidazole Type Ligands**
TERCAN YAVAŞOĞLU M., DAYAN O.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.1, pp.642-648, 2019 (SCI-Expanded)
- IX. **Synthesis and photovoltaic properties of new Ru(II) complexes for dye-sensitized solar cells**
DAYAN O., Özdemir N., Yakuphanoglu F., Şerbetçi Z., BİLİCİ A., Çetinkaya B., TERCAN M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.13, pp.11045-11058, 2018 (SCI-Expanded)
- X. **Syntheses and molecular structures of novel Ru(II) complexes with bidentate benzimidazole based ligands and their catalytic efficiency for oxidation of benzyl alcohol**
DAYAN O., Tercan M., Özdemir N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1123, pp.35-43, 2016 (SCI-Expanded)
- XI. **Synthesis and characterization of 2,2'-(pyridine-2,6-diyl)bis (1H-benzo[d]imidazol-3-ium) 2,4,6-trimethylbenzenesulfonate chloride by experimental and theoretical methods**
Ozdemir N., DAYAN O., Yavasoglu M., Cetinkaya B.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.131, pp.145-152, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **The I-V Characteristics of a New Ru(II) Complex for Different Devices**
DAYAN O., Şerbetçi Z., Yakuphanoglu F., Özdemir N., Dere A., TERCAN YAVAŞOĞLU M.
Journal of Materials and Electronic Devices, vol.2018, no.1, pp.25-29, 2018 (Peer-Reviewed Journal)
- II. **"The Novel Ru(II) Complexes for Dye-Sensitized Solar Cells"**

Refereed Congress / Symposium Publications in Proceedings

- I. **Ru(II) Fotoduyarlaştırıcıların DSSC Etkinlikleri**
TERCAN M.
Trakya Üniversiteler Birliği Enerji Sempozyumu, Çanakkale, Turkey, 27 November 2019, pp.1
- II. **Diode Application of Organometallic Ruthenium Complex with Different Ligand Structures**
TERCAN YAVAŞOĞLU M., DERE A., ŞERBETÇİ Z., DAYAN O., YAKUPHANOĞLU F.
6th International Conference on Material Science and Nanotechnology, Aksaray, Turkey, 16 - 18 October 2019
- III. **Photo Diode-Specific Ruthenium(II) Complex**
TERCAN YAVAŞOĞLU M., DERE A., ŞERBETÇİ Z., DAYAN O., YAKUPHANOĞLU F.
6th International Conference on Material Science and Nanotechnology, Aksaray, Turkey, 16 - 18 October 2019
- IV. **TRI-DENTATE BENZIMIDAZOLE TYPE LIGANDS BEARING RU(II) COMPLEXES AS DSSC PHOTSENSITIZERS**
TERCAN YAVAŞOĞLU M., DAYAN O.
3 rd International Conference on Organic Electronic Material Technologies (OEMT2018), Edirne, Turkey, 20 - 22 September 2018, pp.79
- V. **TRI-DENTATE BENZIMIDAZOLE TYPE LIGANDS BEARING RU(II) COMPLEXES AS DSSC PHOTSENSITIZERS (Oral Presentation)**
TERCAN M., DAYAN O.
3 rd International Conference on Organic Electronic Material Technologies (OEMT2018), Edirne, Turkey, 20 - 22 September 2018, pp.79
- VI. **Synthesis and DSSC Applications of New Ruthenium Complexes Bearing Benzimidazole Type Ligands**
TERCAN YAVAŞOĞLU M., DAYAN O.
INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, 5 - 07 October 2017
- VII. **Synthesis and DSSC Applications of New Ru Complexes Bearing Benzimidazole Type Ligands (Oral Presentation)**
TERCAN M., DAYAN O.
INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, Ankara, Turkey, 5 - 07 October 2017, pp.37
- VIII. **Synthesis and DSSC Applications of New Ru Complexes Bearing Benzimidazole Type Ligands**
TERCAN YAVAŞOĞLU M., DAYAN O.
INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, Ankara, Turkey, 5 - 07 October 2017, pp.37
- IX. **Preparation of a Cobalt Based New Material for Hydrogenation of 2nitroaniline**
DAYAN O., YATKIN S., TERCAN YAVAŞOĞLU M.
3st International NANOSCIENCE & NANOTECHNOLOGY FOR NEXT GENERATION (NaNoNG 2016) Conference, 20 - 22 October 2016, pp.77-83
- X. **Preparation of a Cobalt Based New Material for Hydrogenation of 2nitroaniline**
DAYAN O., YATKIN S., TERCAN YAVAŞOĞLU M.
NANOSCIENCE & NANOTECHNOLOGY FOR NEXT GENERATION INTERNATIONAL CONFERENCE 2016, Antalya, Turkey, 20 - 22 October 2016, pp.77-83
- XI. **Synthesis and DSSC applications of Ru complexes bearing benzimidazole type ligands (Oral Presentation)**
TERCAN M., DAYAN O.
2 nd International Conference on Organic Electronic Material Technologies, Çanakkale, Turkey, 17 - 19 May 2016, pp.39

- XII. **Synthesis and Characterization of a New Metal-Organic Hybrid Material**
YATKIN S., DAYAN O., TERCAN M.
2 nd International Conference on Organic Electronic Material Technologies, Çanakkale, Turkey, 17 - 19 May 2016, pp.164
- XIII. **Synthesis and Characterization of a New Metal-Organic Hybrid Material**
YATKIN S., DAYAN O., TERCAN YAVAŞOĞLU M.
2 nd International Conference on Organic Electronic Material Technologies, Çanakkale, Turkey, 17 - 19 May 2016, pp.164
- XIV. **Synthesis and DSSC applications of Ru complexes bearing benzimidazole type ligands**
TERCAN YAVAŞOĞLU M., DAYAN O.
2 nd International Conference on Organic Electronic Material Technologies, Çanakkale, Turkey, 17 - 19 May 2016, pp.39
- XV. **Synthesis and Catalytic Activity Studies of Ru Complexes Bearing 2 1H Benzimidazol 2 yl quinoline Derivatives**
TERCAN YAVAŞOĞLU M., DAYAN O., ÖZDEMİR N.
INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 27 October - 01 November 2015, pp.256
- XVI. **Synthesis and Catalytic Activity Studies of Ru Complexes Bearing 2-(1H-Benzimidazol-2-yl)quinoline Derivatives**
TERCAN M., DAYAN O., ÖZDEMİR N.
1st International Turkic World Conference on Chemical Sciences and Technologies, Sarajevo, Bosnia And Herzegovina, 27 October - 01 November 2015, pp.256
- XVII. **A Novel Ssap-NtrB/Pro-Drug Combination For Cancer Therapy**
ay m., yetiş g., ÇELİK A., GÜNGÖR T., cömert önder f., TERCAN YAVAŞOĞLU M., kurt m.
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013
- XVIII. **A NOVEL Ssap-NtrB/PRO-DRUG COMBINATION FOR CANCER THERAPY**
YETİŞ G., ÇELİK A., AY M., GÜNGÖR T., CÖMERT ÖNDER F., TERCAN YAVAŞOĞLU M., KURT M.
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1622
- XIX. **A NOVEL Ssap-NtrB/PRO-DRUG COMBINATION FOR CANCER THERAPY**
AY M., AŞCI YETİŞ G., ÇELİK A., GÜNGÖR T., CÖMERT ÖNDER F., TERCAN YAVAŞOĞLU M., KURT M.
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.2956
- XX. **NITROREDUCTASE BASED PRO-DRUG ACTIVATION**
AY M., ÇELİK A., Cömert Önder F., Aşci YETİŞ G., TERCAN YAVAŞOĞLU M., KURT M., GÜNGÖR T.
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1280
- XXI. **Kanser Terapilerinde Kullanılmak Üzere Ssap NtrB İlaç Öncü Prodrug Bileşik Birleşiminin Araştırılması**
Yetiş G., ÇELİK A., AY M., GÜNGÖR T., Cömert F., TERCAN YAVAŞOĞLU M.
1. İlaç Kimyası Kongresi, Antalya, Turkey, 29 - 31 March 2013, pp.279

Supported Projects

TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, 2-(6-metilpiridin-2il)-1H-benzimidazol Tipi Ligandlar İçeren Pd Komplekslerinin Sentezi Karakterizasyonu ve Katalitik Uygulamaları, 2020 - 2021

DAYAN O., ÖZDEMİR F. A. , ŞERBETÇİ Z., ÖZDEMİR N., TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, İkişli Schiff bazı ligantları içeren yeni geçiş metal komplekslerinin sentezi ve katalitik/biyolojik aktivitelerinin incelenmesi, 2019 - 2020

DAYAN O., ÖZDEMİR N., ERDENER D., TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, Yeni boranil bileşiklerin sentezi ve optik özellikleri Deneysel ve teorik çalışma, 2018 - 2019

DAYAN O., TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, İKİ- VE ÜÇ- DİŞLİ BENZİMİDAZOL LİGANTLAR İÇEREN YENİ RUTENYUM KOMPLEKSLERİN SENTEZ VE KARAKTERİZASYONLARI:

DSSC'LER İÇİN YENİ BOYALAR, 2018 - 2018

DAYAN O., TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, 2-(1H-Benzimidazol-2-il)kinolin türevleri içeren Ru komplekslerinin sentezi ve katalitik aktivitelerinin incelenmesi, 2014 - 2015

Ay M., Çelik A., TUBITAK Project, Kanser Terapisi İçin Nitroredüktaz/İlaç-Öncü (Prodrug) Sistemlerinin Geliştirilmesi - Tübitak 1001, 2011 - 2013

AY M., TERCAN YAVAŞOĞLU M., Project Supported by Higher Education Institutions, Bazı şifalı bitkilerin ekonomiye kazandırılması tere (*Lepidium sativum* L.) bitkisinin antioksidan sitotoksit, enzim aktif özüt ve bileşenlerinin belirlenmesi, 2010 - 2012

Metrics

Publication: 52

Citation (WoS): 37

Citation (Scopus): 38

H-Index (WoS): 4

H-Index (Scopus): 4

Scholarships

Proje Bursiyeri, TUBITAK, 2011 - 2013

Yök Yurtdışı Araştırma Bursu (İngiltere), YOK, 2011 - 2011