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Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2007 - 2015

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2004 - 2007

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1999 - 2002

Dissertations

Doctorate, Sulfonamid türevlerinin metal komplekslerinin sentezi, yapı analizi, spektroskopik ve elektrokimyasal özelliklerinin incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2015

Postgraduate, Vo₂ ve Cu₂ geçiş metal iyonu katkılı bazı arsenik, maleik ve pikolin komplekslerinin EPR ile incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2007

Research Areas

Pharmacology and Therapeutics, Microbiology, Physics

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, XRD, spectroscopic (UV-Vis, IR, EPR) and biological evaluations of cobalt(II)-ciprofloxacin complex as antimicrobial agent: In silico molecular docking and ADME**
Aycan T., Öztürk F., Doruk T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1306, 2024 (SCI-Expanded)
- II. **Structural characterization (XRD, FTIR) and magnetic studies of Cd(II)-Sulfamethoxazole-2,2'-bipyridine: DFT and Hirshfeld Surface Analysis**
oeztuerk F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1271, 2023 (SCI-Expanded)
- III. **Synthesis, spectroscopic characterization, biological activities, X-ray diffraction and molecular docking studies of 2-methyl-3-(thiazol-2-ylcarbamoyl)phenylacetate**
ÇAKMAK Ş., AYCAN T., Öztürk F., VEYİSOĞLU A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1270, 2022 (SCI-Expanded)
- IV. **Design, synthesis and spectroscopic and structural characterization of novel N-(2-hydroxy-5-methyl-phenyl)-2,3-dimethoxybenzamide: DFT, Hirshfeld surface analysis, antimicrobial activity, molecular docking and toxicology**

ÇAKMAK Ş., AYCAN T., Öztürk F., VEYİSOĞLU A.

ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.78, pp.493-511, 2022 (SCI-Expanded)

- V. **Cobalt(III) complex of substituted nalidixic acid: Synthesis, characterization (IR, UV, EPR), single crystal X-ray, antimicrobial activity, Hirshfeld surface analysis and molecular docking**
AYCAN T., Öztürk F., DEMİR S., Özdemir N., Pasaoglu H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1225, 2021 (SCI-Expanded)
- VI. **Synthesis, structural, spectral and antimicrobial activity studies of copper-nalidixic acid complex with 1,10-phenanthroline: DFT and molecular docking**
AYCAN T., Öztürk F., Doruk T., DEMİR S., FİDAN M., Padaoglu H.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.241, 2020 (SCI-Expanded)
- VII. **Spectroscopic, structural characterization and magnetic studies of Cu(II)-sulfathiazole complex with 1,10-Phenanthroline and N-(2-hydroxyethyl)-Ethylenediamine ligands**
Öztürk F., AYCAN T., Çon A. H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)
- VIII. **Cu(II)-sulfamethazine complex with N-(2-hydroxyethyl)-ethylenediamine: synthesis, spectroscopic, structural characterization and antimicrobial activity**
Öztürk F., AYCAN T., Özdemir N.
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.19-21, pp.3359-3370, 2019 (SCI-Expanded)
- IX. **Investigation of structural, spectral and thermal properties of one-dimensional polymer containing pyromellitic acid and isonicotinamide**
Aycan T., Öztürk F., Pasaoglu H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1176, pp.685-694, 2019 (SCI-Expanded)
- X. **Spectroscopic, structural, electrochemical and antimicrobiological studies of Cu(II)-sulfathiazole complex with diethylenetriamine ligand**
Öztürk F., Bulut I., Genç Bekiroğlu Y., Bulut A.
POLYHEDRON, vol.119, pp.420-428, 2016 (SCI-Expanded)
- XI. **Structural, spectroscopic, magnetic and electrochemical studies of monomer N-substituted-sulfanilamide copper (II) complex with 2,2'-bipyridine**
Öztürk F., Bulut I., Bulut A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.138, pp.891-899, 2015 (SCI-Expanded)
- XII. **Synthesis, structural and electrochemical properties of nickel(II) sulfamethazine complex with diethylenetriamine ligand**
Bulut I., Öztürk F., Bulut A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.138, pp.138-145, 2015 (SCI-Expanded)
- XIII. **Structural, spectroscopic and voltammetric studies of bis(acetazolamido)bis(aquo)bis(nicotinamide)copper(II)**
Öztürk F., Bulut A., Pasaoglu H., Bulut I., Buyukgungor O.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.97, pp.24-30, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bakır(II)–Sulfametazin-2,2'-bipiridin Kompleksinin Hesaplamalı Kimya Yöntemi ile Spektroskopik Özelliklerinin İncelenmesi: Moleküler Modelleme Çalışması, ADME/T**
ÖZTÜRK F., AYCAN T.
Sinop Üniversitesi Fen Bilimleri Dergisi, vol.8, no.1, pp.39-64, 2023 (Peer-Reviewed Journal)
- II. **Investigation of Spectroscopic Properties with Computational Chemistry Method of Zinc(II)–**

Sulfatiazole-Diethylenetriamine Complex: Molecular Modeling Study

ÖZTÜRK F., AYCAN T.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, no.1, pp.65-83, 2021 (Peer-Reviewed Journal)

III. Sülfametiiazol-2,2'-Bipiridin Tuzunun Yapısal ve Spektrel İncelenmesi: Deneysel ve Moleküler Modelleme Çalışması

ÖZTÜRK F., AYCAN T., ÇON A. H.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.2, pp.525-541, 2020 (Peer-Reviewed Journal)

IV. Investigation of Structural, Spectral, Biological Activity of Monohydrous Dihydrogen Phosphate Salt of Ciprofloxacin: Computational and Molecular Docking Study

AYCAN T., ÖZTÜRK F., ÖZDEMİR N., PAŞAOĞLU H.

International journal of advances in engineering and pure sciences (Online), vol.32, no.1, pp.41-51, 2020 (Peer-Reviewed Journal)

V. Sulfamethizole-2-amino-4,6-dimethoxypyrimidine (1/1)

ÖZTÜRK F., BULUT İ., YAVUZ Y. E., BULUT A.

IUCR DATA, vol.1, no.6, pp.1-3, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. DFT, Hirshfeld Surface Analysis and Molecular Docking, Druglikeness and Adme Of Zn(II)-Sulfamethoxazole Complex With Diethylentriamine Ligands

ÖZTÜRK F., AYCAN T.

in: Multifaceted Academic Perspective: Basic Sciences and Engineering Research, Assoc. Prof. Ahmet DEMİRER, Editor, SRA Academic Publishing, Klaipeda, pp.1-30, 2023

II. DİETİLENTİRİAMİN LİGANDLARI İLE ZN(II)- SÜLFAMETOKSAZOL KOMPLEKSİNİN SPEKTROSKOPİK, YAPISAL KARAKTERİZASYONU, MANYETİK ve ANTİMİKROBİYAL ÇALIŞMALARI

ÖZTÜRK F., AYCAN T., FİDAN M., Çağlar N.

in: ÇOKLU DİSİPLİNLERDEN AKADEMİK İNCELEMELER: İLERİ KİMYA, FİZİK VE MÜHENDİSLİK PERSPEKTİFLERİ, Elif ORHAN, Editor, İksad yayın evi, Ankara, pp.3-26, 2023

III. BAKIR(II)-SÜLFATİYAZOL-DİETHYLENETİRİAMİNE KARIŞIK LİGANTLI KOMPLEKSİN HESAPLAMALI KİMYA YÖNTEMİYLE SPEKTROSKOPİK ÖZELLİKLERİNİN İNCELENMESİ VE MOLEKÜLER MODELLEME ÇALIŞMASI

ÖZTÜRK F., AYCAN T.

in: GELECEĞİN DÜNYASINDA BİLİMSEL VE MESLEKİ ÇALIŞMALAR 2020 FEN BİLİMLERİ / I, Cem Cüneyt Ersanlı, Elif Tezel Ersanlı, Canan Başlak, Editor, Ekin Basım Yayın Dağıtım, Bursa, pp.56-79, 2020

Refereed Congress / Symposium Publications in Proceedings

I. INVESTIGATION OF STRUCTURAL, SPECTROSCOPIC AND HIRSHFELD SURFACE PROPERTIES OF COBALT(II)-CIPROFLOXACIN WITH H₃PO₄ COMPLEX: MOLECULAR DOCKING STUDY AND ADMET

AYCAN T., ÖZTÜRK F.

ASES INTERNATIONAL ORDU SCIENTIFIC RESEARCH CONFERENCE, Ordu, Turkey, 6 - 08 October 2023

II. DFT, HIRSHFELD SURFACE ANALYSIS AND MOLECULAR MODELING STUDY OF NICKEL (II)-SULFAMETHAZINE COMPLEX

ÖZTÜRK F., AYCAN T.

ASES INTERNATIONAL ORDU SCIENTIFIC RESEARCH CONFERENCE, Ordu, Turkey, 6 - 08 October 2023

III. INVESTIGATION OF SPECTROSCOPIC PROPERTIES OF CU(II)-ACETAZOLAMIDE/NICOTINAMIDE COMPLEX BY COMPUTATIONAL CHEMISTRY METHOD: MOLECULAR MODELLING STUDY, ADME AND TOXICOLOGY

AYCAN T., ÖZTÜRK F.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023

- IV. **DFT, Hirshfeld Surface Analysis and Molecular Docking, Druglikeness and ADMET of Zn(II)-Sulfamethoxazole Complex with Diethylenetriamine Ligands**
ÖZTÜRK F., AYCAN T.
TURKISH PHYSICAL SOCIETY 39 th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- V. **Synthesis, spectroscopic, structural characterization and magnetic studies of Cd(II) -sulfamethoxazole complex with 2,2'-bipyridine ligand**
ÖZTÜRK F.
IV.INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS, Ankara, Turkey, 7 - 10 November 2019
- VI. **Dimeric copper(II) complex with benzoic acid: synthesis, structural and spectroscopic characterization**
ÖZTÜRK F.
IV.INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS, (BILMES SH 2019), Ankara, Turkey, 7 - 10 November 2019
- VII. **Study of Synthesis, Structural, Spectral of Copper-Nalidixic Acid Complex with 1,10-Phenanthroline: Computational and Molecular Docking**
AYCAN T., ÖZTÜRK F., FİDAN M., DEMİR S., PAŞAOĞLU H.
Turkish Physical Society- 35th International Physics Congress (TPS-35), Muğla, Turkey, 4 - 08 September 2019
- VIII. **1,10-Phenanthroline ve N- (2-hidroksietil) -Eilendiamin Ligandları ile Cu (II)-sülfathiazol kompleksinin sentezi, spektroskopik, yapısal karakterizasyonu ve manyetik çalışmaları**
ÖZTÜRK F., AYCAN T.
6. Uluslararası Multidisipliner Çalışmaları Kongresi: Multicongress Gaziantep, Gaziantep, Turkey, 26 - 28 April 2019
- IX. **Sulfametiazolün 2,2'-Bipiridin Tuzunun Yapısal, Spektral İncelenmesi: Deneysel ve Moleküler Modelleme**
AYCAN T., ÖZTÜRK F.
6. Uluslararası Multidisipliner Çalışmaları Kongresi: Multicongress Gaziantep, Gaziantep, Turkey, 26 - 28 April 2019
- X. **Investigation of Structural, Spectral, Biological Activity of Cobalt-Nalidixic Acid Complex with Pyridine**
AYCAN T., ÖZTÜRK F., DEMİR S., PAŞAOĞLU H.
1st International Technology Sciences and Design Symposium, Giresun, Turkey, 28 - 30 June 2018
- XI. **Synthesis, spectroscopic, structural characterization and magnetic studies of copper(II)-sulfamethazine complex with N-(2-hydroxyethyl)-Ethylenediamine**
ÖZTÜRK F., AYCAN T.
1st International Technology Sciences and Design Symposium, Giresun, Turkey, 28 - 30 June 2018
- XII. **Investigation of structural, spectral of Monohydrous Dihydrogen Phosphate Salt of Ciprofloxacin: Experimental and molecular modeling study**
AYCAN T., ÖZTÜRK F., PAŞAOĞLU H.
1st International Technology Sciences and Design Symposium, 28 - 30 June 2018
- XIII. **Structural, spectroscopic and magnetic studies of sulfathiazole- zinc(II) complex with diethylenetriamine**
ÖZTÜRK F., BULUT A., BÜYÜKGÜNGÖR O.
4. Ulusal Kristalografi Toplantısı, Diyarbakır, Turkey, 17 May 2014
- XIV. **Structural, spectroscopic, magnetic and electrochemical studies of monomer N-substituted-sulfanilamide copper(II) complex with 2,2'-bipyridine.**
ÖZTÜRK F., BULUT A., BULUT İ.
1st International TURCMOS (Turkish Congress on Molecular Spectroscopy), İstanbul, Turkey, 15 September 2013
- XV. **Synthesis, structure and spectroscopic properties of copper(II) sulfamethazine complex with N-(2-hydroxyethyl)-Ethylenediamine ligand**

ÖZTÜRK F., BULUT A.

3.Ulusal Kristalografi Toplantısı, İzmir, Turkey, 07 June 2012

XVI. **An EPR study of Cu²⁺ ions in [Zn(picol)₂(H₂O)₂·2H₂O single crystals.**

KARABULUT B., ÖZTÜRK F., KESER C., HEREN Z.

XXVIII. European Congress on Molecular Spectroscopy, İstanbul, Turkey, 03 September 2006

XVII. **An EPR study of VO₂⁺ ions in arsanilic acid [C₆H₄AsNO (H₂O)₂] single crystals**

ÖZTÜRK F., KARABULUT B.

XXVIII. European Congress on Molecular Spectroscopy, İstanbul, Turkey, 03 September 2006