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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-8214-2020

ScopusID: 56809420500

Yoksis Researcher ID: 320725

Education Information

Doctorate, Sakarya University, Institute Of Science, Fizik (Dr), Turkey 2015 - 2019

Associate Degree, Sakarya University, Sakarya Vocational School Of Health Sciences, Tıbbi Hizmetler Ve Teknikler Bölümü, Turkey 2017 - 2018

Postgraduate, Sakarya University, Institute Of Science, Fizik (YI) (Tezli), Turkey 2013 - 2015

Undergraduate, Dokuz Eylül University, Fen Fakültesi, Fizik Bölümü, Turkey 2011 - 2013

Foreign Languages

Arabic, C2 Mastery

Dissertations

Doctorate, 6-metilpiridin-2-karboksilik asit içeren bazı geçiş metal komplekslerinin sentezi, yapı analizleri ve α -glukozidaz enzimi üzerine etkilerinin incelenmesi, Sakarya University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2019

Postgraduate, 1,3-tiyazolidin-2,4-dikarboksilat-Mn(II) kompleksinin 1,10-fenantrolin ile sentezi, spektroskopik karakterizasyonu ve DFT metoduyla incelenmesi, Sakarya University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2015

Research Areas

Theory of Atoms and Molecules

Academic Titles / Tasks

Assistant Professor, Bilecik Seyh Edebali University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2023 - Continues

Courses

Ophthalmic lens theory, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021
Optik II, Associate Degree, 2023 - 2024
professional English, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021
Contact Lens Theory, Associate Degree, 2022 - 2023
Opticianry Laboratory I, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021
İşletmede Mesleki Eğitim, Associate Degree, 2022 - 2023
Optik Aletler Bilgisi, Associate Degree, 2023 - 2024, 2022 - 2023
Staj, Associate Degree, 2022 - 2023, 2021 - 2022
Introduction to Opticianry, Associate Degree, 2023 - 2024, 2022 - 2023
Fizik Bilim Tarihi, Associate Degree, 2023 - 2024, 2022 - 2023
Optisyenlik Laboratuvar II, Associate Degree, 2023 - 2024, 2022 - 2023
Mesleki Terminoloji, Associate Degree, 2023 - 2024
Optik Mağaza Yönetimi, Associate Degree, 2023 - 2024, 2022 - 2023
Vision Tests and Refraction, Associate Degree, 2022 - 2023, 2020 - 2021
İş Yeri Eğitimi, Associate Degree, 2021 - 2022
İş Yeri Uygulaması, Associate Degree, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel Mn(II) and Zn(II) complexes of 6-bromopicolinic acid as a potential optical material: Synthesis, spectral characterizations, linear, and nonlinear optical properties and density functional theory calculations**
Avcı D., Saeedi Y., Başoğlu A., Dege N., Altürk S., Tamer Ö., Atalay Y.
Applied Organometallic Chemistry, vol.35, no.3, 2021 (SCI-Expanded)
- II. **Novel metal complexes containing 6-methylpyridine-2-carboxylic acid as potent α -glucosidase inhibitor: synthesis, crystal structures, DFT calculations, and molecular docking**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Molecular Diversity, vol.25, no.1, pp.171-189, 2021 (SCI-Expanded)
- III. **Synthesis, spectral properties, α -glucosidase inhibition, second-order and third-order NLO parameters and DFT calculations of Cr(III) and V(IV) complexes of 3-methylpicolinic acid**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Journal of Molecular Structure, vol.1220, 2020 (SCI-Expanded)
- IV. **Synthesis, DFT calculations and molecular docking study of mixed ligand metal complexes containing 4,4'-dimethyl-2,2'-bipyridyl as α -glucosidase inhibitors**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B.
Journal of Molecular Structure, vol.1205, 2020 (SCI-Expanded)
- V. **Synthesis, spectral properties, in vitro α -glucosidase inhibitory activity and quantum chemical calculations of novel mixed-ligand M(II) complexes containing 1,10-phenanthroline**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Applied Organometallic Chemistry, vol.34, no.4, 2020 (SCI-Expanded)
- VI. **Novel Cu(II), Co(II) and Zn(II) metal complexes with mixed-ligand: Synthesis, crystal structure, α -glucosidase inhibition, DFT calculations, and molecular docking**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Journal of Molecular Structure, vol.1197, pp.645-655, 2019 (SCI-Expanded)
- VII. **A novel series of mixed-ligand M(II) complexes containing 2,2'-bipyridyl as potent α -glucosidase inhibitor: synthesis, crystal structure, DFT calculations, and molecular docking**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Journal of Biological Inorganic Chemistry, vol.24, no.5, pp.747-764, 2019 (SCI-Expanded)
- VIII. **A novel series of M(II) complexes of 6-methylpyridine-2-carboxylic acid with 4(5)methylimidazole: Synthesis, crystal structures, α -glucosidase activity, density functional theory calculations and**

molecular docking

Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Applied Organometallic Chemistry, vol.33, no.7, 2019 (SCI-Expanded)

- IX. **Two New Co(II) Complexes of Picolinate: Synthesis, Crystal Structure, Spectral Characterization, α -Glucosidase Inhibition and TD/DFT Study**
Altürk S., Avcı D., ZENGİN KURT B., Tamer Ö., Başoğlu A., Sönmez F., Atalay Y., Dege N.
Journal of Inorganic and Organometallic Polymers and Materials, vol.29, no.4, pp.1265-1279, 2019 (SCI-Expanded)
- X. **A new dinuclear copper (II) complex of 2,5-Furandicarboxylic acid with 4(5)-Methylimidazole as a high potential α -glucosidase inhibitor: Synthesis, Crystal structure, Cytotoxicity study, and TD/DFT calculations**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Öztürk D., Dege N.
Applied Organometallic Chemistry, vol.33, no.3, 2019 (SCI-Expanded)
- XI. **Three novel Cu(II), Cd(II) and Cr(III) complexes of 6-Methylpyridine-2-carboxylic acid with thiocyanate: Synthesis, crystal structures, DFT calculations, molecular docking and α -Glucosidase inhibition studies**
Avcı D., Altürk S., Sönmez F., Tamer Ö., Başoğlu A., Atalay Y., ZENGİN KURT B., Dege N.
Tetrahedron, vol.74, no.50, pp.7198-7208, 2018 (SCI-Expanded)
- XII. **1H-pyrazole-3-carboxylic acid: Experimental and computational study**
Altürk S., Avcı D., Tamer Ö., Atalay Y.
Journal of Molecular Structure, vol.1164, pp.28-36, 2018 (SCI-Expanded)
- XIII. **Copper(II) complex with 6-methylpyridine-2-carboxylic acid: Experimental and computational study on the XRD, FT-IR and UV-Vis spectra, refractive index, band gap and NLO parameters**
Altürk S., Avcı D., Başoğlu A., Tamer Ö., Atalay Y., Dege N.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.190, pp.220-230, 2018 (SCI-Expanded)
- XIV. **Spectroscopic (FT-IR, 1H and 13C NMR) characterization and density functional theory calculations for (3- (2- (1-hydroxycyclohexyl) -2- (4-methoxyphenyl)ethyl) -2- (4-methylphenyl) - thiazolidin-4-one)**
Toubal K., Boukabcha N., Tamer Ö., Benhalima N., Altürk S., Avcı D., Chouaih A., Atalay Y., Djafri A., Hamzaoui F.
Journal of Molecular Structure, vol.1147, pp.569-581, 2017 (SCI-Expanded)
- XV. **Solvent effect in implicit/explicit model on FT-IR, 1H, 13C and 19F NMR, UV-vis and fluorescence spectra, linear, second- and third-nonlinear optical parameters of 2-(trifluoromethyl)benzoic acid: Experimental and computational study**
Avcı D., Altürk S., Tamer Ö., Kuşbazoğlu M., Atalay Y.
Journal of Molecular Structure, vol.1143, pp.116-126, 2017 (SCI-Expanded)
- XVI. **Conformational, spectroscopic and nonlinear optical investigations on 1-(4-chlorophenyl)-3-(4-chlorophenyl)-2-propen-1-one: a DFT study**
Altürk S., Boukabcha N., Benhalima N., Tamer Ö., Chouaih A., Avcı D., Atalay Y., Hamzaoui F.
Indian Journal of Physics, vol.91, no.5, pp.501-511, 2017 (SCI-Expanded)
- XVII. **Comparison of different hybrid DFT methods on structural, spectroscopic, electronic and NLO parameters for a potential NLO material**
Altürk S., Avcı D., Tamer Ö., Atalay Y.
Computational and Theoretical Chemistry, vol.1100, pp.34-45, 2017 (SCI-Expanded)
- XVIII. **A cobalt (II) complex with 6-methylpicolinate: Synthesis, characterization, second- and third-order nonlinear optical properties, and DFT calculations**
Altürk S., Avcı D., Tamer Ö., Atalay Y., Şahin O.
Journal of Physics and Chemistry of Solids, vol.98, pp.71-80, 2016 (SCI-Expanded)
- XIX. **Synthesis, spectroscopic characterization, second and third-order nonlinear optical properties, and DFT calculations of a novel Mn(II) complex**
Altürk S., Tamer Ö., Avcı D., Atalay Y.
Journal of Organometallic Chemistry, vol.797, pp.110-119, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **SYNTHESIS, CRYSTAL STRUCTURE, SPECTRAL CHARACTERIZATION, α -GLUCOSIDASE INHIBITION AND TD/DFT STUDY OF THE Cu (II) COMPLEX**
S. A., AVCI D., SÖNMEZ F., TAMER Ö., BAŞOĞLU A., ATALAY Y., ZENGİN KURT B.
3rd International Conference on Organic Electronic Material Technologies (OEMT2018), Kırklareli, Turkey, 20 September 2018 - 22 September 2019
- II. **SYNTHESIS, CRYSTAL STRUCTURE, DFT CALCULATIONS, MOLECULAR DOCKING AND α -GLUCOSIDASE INHIBITION STUDY OF THE Zn (II) COMPLEX**
S. A., AVCI D., SÖNMEZ F., TAMER Ö., BAŞOĞLU A., ATALAY Y., ZENGİN KURT B., DEGE N.
3rd International Conference on Organic Electronic Material Technologies (OEMT2018), Kırklareli, Turkey, 20 - 22 September 2018
- III. **SYNTHESIS, SPECTRAL CHARACTERIZATION, α -GLUCOSIDASE INHIBITION AND TD/DFT STUDY OF THE Ni(II) COMPLEXES**
S. A., AVCI D., SÖNMEZ F., TAMER Ö., BAŞOĞLU A., ATALAY Y.
IRSETCONF, Belgrade, Serbia, 15 - 17 December 2018
- IV. **CADMIUM (II) COMPLEX WITH 1H-PYRAZOLE-3-CARBOXYLIC ACID: A DFT STUDY**
S. A., AVCI D., TAMER Ö., ATALAY Y.
PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 33ND INTERNATIONAL PHYSICS CONGRESS (TPS33), Bodrum, Turkey, 6 - 10 September 2017
- V. **1H-pyrazole-3-carboxylic acid: EXPERIMENTAL AND COMPUTATIONAL STUDY**
S. A., AVCI D., TAMER Ö., ATALAY Y.
PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 33ND INTERNATIONAL PHYSICS CONGRESS (TPS33), Bodrum, Turkey, 6 - 10 September 2017
- VI. **DFT calculations on spectroscopic, structural and NLO properties of silver (I) complex with picolinamide**
S. A., AVCI D., TAMER Ö., ATALAY Y.
PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS (TPS32), Bodrum, Turkey, Turkey, 6 - 09 September 2016, vol.1815
- VII. **SPECTROSCOPIC PROPERTIES OF 2-(TRIFLUOROMETHYL)BENZOIC ACID: EXPERIMENTAL AND COMPUTATIONAL STUDY**
S. A., AVCI D., TAMER Ö., ATALAY Y.
PROCEEDINGS OF THE TURKISH PHYSICAL SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS (TPS32), Bodrum, Turkey, 6 - 09 September 2016
- VIII. **The second- and third- order nonlinear optical properties and electronic transition of a NLO chromophore: A DFT study**
S. A., AVCI D., TAMER Ö., ATALAY Y.
9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION (BPU-9), Istanbul, Turkey, Turkey, 24 - 27 August 2015, vol.1722
- IX. **DFT calculations on spectroscopic and structural properties of a NLO chromophore**
S. A., AVCI D., TAMER Ö., ATALAY Y.
9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION (BPU-9), Istanbul, Turkey, Turkey, 24 - 27 August 2015, vol.1722

Supported Projects

Yeni 6-Metilpiridin-2-Karboksilik Asit İçeren Karışık Liganlı Farklı Metal Komplekslerin Sentezi, Yapılarının Detaylı Analizi Ve α -Glukozidaz Enzim İnhibisyonunun In Vitro İncelenmesi, 2017 - 2019

Project Supported by Higher Education Institutions, Yeni 1,3-Tiyazolidin-2,-4-Dikarboksilik Asit Komplekslerinin Sentezi, Yapılarının Aydınlatılması, Lineer Olmayan Optik Özellikleri ve Uyarılmış Seviye Elektronik Özelliklerinin Modellenmesi,

2013 - 2015

Metrics

Publication: 28

Citation (Scopus): 532

H-Index (Scopus): 12

Congress and Symposium Activities

3rd International Conference on Organic Electronic Material Technologies (OEMT2018), Attendee, Kırklareli, Turkey, 2018

3rd International Conference on Organic Electronic Material Technologies (OEMT2018), Attendee, Kırklareli, Turkey, 2018

9th INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION – BPU9, Attendee, İstanbul, Turkey, 2015

9th INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION – BPU9, Attendee, İstanbul, Turkey, 2015