

Assoc. Prof. FATİH ŞEN

Personal Information

Email: fatih.sen@bozok.edu.tr

Other Email: fatih.sen@yobu.edu.tr

Web: <https://avesis.bozok.edu.tr/fatih.sen>

International Researcher IDs

ORCID: 0000-0003-1593-8483

Publons / Web Of Science ResearcherID: O-9407-2016

ScopusID: 57211922409

Yoksis Researcher ID: 18904



Education Information

2018 - 2022	Undergraduate, Yozgat Bozok University, İktisadi ve İdari Bilimler Fakültesi, Siyaset Bilimi ve Kamu Yönetimi, Turkey
2011 - 2015	Doctorate, Ondokuz Mayıs University, Institute Of Science, Fizik (Dr), Turkey
2009 - 2011	Postgraduate, Ondokuz Mayıs University, Institute Of Science, Fizik (Y) (Tezli), Turkey
2005 - 2009	Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Physics, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

2015	Siklobütan içeren bazı bileşiklerin kristal, moleküler ve spektroskopik özelliklerinin deneysel ve teorik yöntemlerle incelenmesi, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Fizik Anabilim Dalı, Doctorate
2011	Bazı siklobütan türevlerinin deneysel ve teorik yöntemlerle incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Y) (Tezli), Postgraduate

Research Areas

Physics, Theory of Atoms and Molecules, Materials Science, Optics, Structure of Liquids and Solids; Crystallography, Natural Sciences

Academic Titles / Tasks

2020 - Continues	Associate Professor, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler
2016 - 2020	Assistant Professor, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler
2015 - 2016	Lecturer PhD, Kilis 7 Aralık University, Health Services Vocational School, Department Of Medical Services And Techniques
2011 - 2015	Lecturer, Kilis 7 Aralık University, Health Services Vocational School, Department Of Medical Services And Techniques

Academic and Administrative Experience

2021 - Continues	Head of Department, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler
2017 - 2020	Head of Department, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler
2018 - 2019	Director of Vocational School, Yozgat Bozok University, Sorgun Meslek Yüksekokulu

Courses

2023 - 2024	OPTICIANRY - II, Associate Degree
2023 - 2024	Opticianry - I, Associate Degree
2023 - 2024	Laboratuvar Teknikleri ve Güvenliđi, Associate Degree
2023 - 2024	Gözlük, Camı, Çerçevesi ve Üretimi, Associate Degree
2023 - 2024	Optisyenliğe Giriş, Associate Degree
2019 - 2020	Optisyenlik - IV, Associate Degree
2019 - 2020, 2018 - 2019	Gözlük Camlarının Montajı - III, Associate Degree
2019 - 2020, 2018 - 2019, 2017 - 2018	Gözlük Camları - I, Associate Degree
2019 - 2020	Gözlük Camlarının Montajı - IV, Associate Degree
2019 - 2020	Opticianry - II, Associate Degree
2019 - 2020, 2018 - 2019, 2017 - 2018	Gözlük Camları - II, Associate Degree
2018 - 2019	Gözlük Camlarının Montajı - IV, Associate Degree
2018 - 2019, 2017 - 2018	Geometrik Optik - II, Associate Degree
2017 - 2018	Geometrik Optik - I, Associate Degree
2016 - 2017, 2015 - 2016, 2014 - 2015	Mesleki Uygulama - I, Associate Degree
2016 - 2017	Optik ve Oftalmik Cihazlar, Associate Degree
2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014	Malzeme Bilgisi, Associate Degree
2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014	Gözlükçülük Laboratuvar, Associate Degree
2016 - 2017	Optisyenlik Paket Program Uygulamaları, Associate Degree
2016 - 2017, 2015 - 2016, 2014 - 2015	Mesleki Uygulama - II, Associate Degree
2015 - 2016	Temel Fizik, Associate Degree
2015 - 2016	Optik Aletler, Associate Degree
2014 - 2015	Optik Kuramları, Associate Degree
2014 - 2015	Görme Optiđi ve Refraksiyon - I, Associate Degree
2013 - 2014	Optik Laboratuvar, Associate Degree

Published journal articles indexed by SCI, SSCI, and AHCI

- I. The DFT and in-silico analysis of 2,2'-((1e,1'e)-((3,3'-dimethyl-[1,1'-biphenyl]-4,4'

diyl)bis(azanylylidene))bis(methanylylidene))diphenol molecule

Sert Y., Albayati M. R., Şen F., Dege N.

COLLOIDS AND SURFACES A: PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.687, pp.1-12, 2024 (SCI-Expanded)

- II. **Structure Elucidation, Hirshfeld Surface Analysis, Molecular Docking and Computational Studies of a Jahn-Teller Distorted Octahedral Cobalt (II) Complex with Saccharin Ligand**
Mohammed H. A., SERT Y., Albayati M. R., DEGE N., ŞEN F.
POLYCYCLIC AROMATIC COMPOUNDS, vol.43, no.5, pp.4396-4406, 2023 (SCI-Expanded)
- III. **Computational Study of a Novel Compound with Thioether-Bridge**
Şen F., Cukurovalı A., Sert Y.
Polycyclic Aromatic Compounds, vol.43, no.10, pp.8632-8652, 2023 (SCI-Expanded)
- IV. **Quantum Computational Investigation of (E)-1-(4-methoxyphenyl)-5-methyl-N'-(3-phenoxybenzylidene)-1H-1,2,3-triazole-4-carbohydrazide**
Gökce H., Şen F., Sert Y., Abdel-Wahab B. F., Kariuki B. M., El-Hiti G. A.
MOLECULES, vol.27, no.7, 2022 (SCI-Expanded)
- V. **Synthesis, crystal structure, Hirshfeld surface analysis, spectral characterizations and quantum computational assessments of 1-hydroxy-3-methyl-11H-pyrido[2,1-b]quinazolin-11-one**
Lahmidi S., SERT Y., ŞEN F., El Hafi M., Ettahiri W., Gokce H., Essassi E. M., Mague J. T., UCUN F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1249, 2022 (SCI-Expanded)
- VI. **A research on structural vibrational, surface characterization of 2-methyl-3-{5-methyl-[1,2,4]triazolo[1,5-a]pyrimidin-7-yl}-4H-pyrido[1,2-a]pyrimidin-4-one hydrate: SCXRD, FT-IR, MEP, Hirshfeld and molecular docking studies**
Lahmidi S., Şen F., Sert Y., Uzun F., Essassi E. M., Magued J. T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1235, 2021 (SCI-Expanded)
- VII. **Preparation, molecular definition, spectroscopic characterization and density functional theory calculations on N'-(4-(3-methyl-3-phenylcyclobutyl)-3-phenylthiazol-2(3H)-ylidene)benzenesulfonohydrazide**
ŞEN F., ÇUKUROVALI A.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.195, no.7, pp.562-569, 2020 (SCI-Expanded)
- VIII. **Hirshfeld Surface analysis, spectroscopic, biological studies and molecular docking of (4E)-4-((naphthalen-2-yl)methyleneamino)-1,2-dihydro-2,3-dimethyl-1-phenylpyrazol-5-one**
Eltayeb N. E., ŞEN F., Lasri J., Hussien M. A., Elsilik S. E., Babgi B. A., GÖKCE H., SERT Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)
- IX. **STRUCTURE DETERMINATION, VIBRATIONAL BANDS AND CHEMICAL SHIFT ASSIGNMENTS OF 3-(4-(3-(2,5-DIMETHYLPHENYL)-3-METHYLCYCLOBUTYL)THIAZOL-2-YL)-2-(O-TOLYL)THIAZOLIDIN-4-ONE: A COMBINED EXPERIMENTAL AND QUANTUM CHEMICAL DENSITY-FUNCTIONAL THEORY STUDIES**
ŞEN F.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.38, no.2, pp.183-196, 2019 (SCI-Expanded)
- X. **A new barbiturate-based centrosymmetric compound: Joint experimental/DM investigation of the structural, spectroscopic and surface properties**
ŞEN F., ÇAPAN İ., DİNÇER M., ÇUKUROVALI A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.278-287, 2018 (SCI-Expanded)
- XI. **Synthesis, characterization, spectroscopy, X-ray structure and gaussian hybrid computational investigation of (-)-(S)-1-[2-(benzenesulfonamido)-3-phenylpropanoyl]-4-[(4-methyl)phenyl]thiosemicarbazide**
Kanmazalp S. D., Basaran E., Karakucuk-Iyidogan A., Oruc-Emre E. E., ŞEN F., Dege N.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.193, no.10, pp.675-684, 2018 (SCI-Expanded)

- XII. **A one-dimensional copper(II) coordination polymer incorporating succinate and N,N-diethylethylenediamine ligands: crystallographic analysis, vibrational and surface features, and DFT analysis**
ŞEN F., KANSIZ S., UÇAR İ.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.73, pp.517-524, 2017 (SCI-Expanded)
- XIII. **Spectral and structural analysis on 2-(4-Allyl-5-Mercapto-4H-1,2,4-Triazol-3-yl)Acetic acid: Experimental and theoretical (HF and DFT) studies**
ŞEN F., Dincer M., Yilmaz I., Cukurovali A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1137, pp.193-205, 2017 (SCI-Expanded)
- XIV. **Spectroscopic and molecular modeling studies of N-(4-(3-methyl-3-phenylcyclobutyl)-3-phenylthiazole-2(3H)-ylidene)aniline by using experimental and density functional methods**
ŞEN F., Ekici O., Dincer M., Cukurovali A.
JOURNAL OF SAUDI CHEMICAL SOCIETY, vol.21, no.4, pp.377-389, 2017 (SCI-Expanded)
- XV. **Tridentate SNS pincer type ligand: Synthesis, structural and spectroscopic analysis of a novel pyridine and m-xylene compound with thioether-bridge**
Sogukomerogullari H. G., ŞEN F., Dincer M., Ozdemir N., Sonmez M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1136, pp.271-280, 2017 (SCI-Expanded)
- XVI. **Synthesis of a new heterocyclic Schiff base ligand "(E)-5-benzoyl-4-phenyl-1-((pyridin-2-ylmethylene) amino) pyrimidin-2(1H)-one": An experimental and computational modeling study**
Ozdemir M., Sonmez M., ŞEN F., Dincer M., Ozdemir N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1127, pp.626-635, 2017 (SCI-Expanded)
- XVII. **Structural, spectroscopic characterization of (E)-4-chloro-2-((4-methoxybenzylidene)amino)phenol as potential antioxidant compound**
ŞEN F., Efil K., Bekdemir Y., Dincer M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1127, pp.645-652, 2017 (SCI-Expanded)
- XVIII. **STRUCTURAL FEATURES OF 2-(4,5-DIPHENYL-4H-1,2,4-TRIAZOL-3-YL)THIO)-1-(3-METHYL-3-PHENYLCYCLOBUTYL)ETHANONE : X-RAY DIFFRACTION AND DFT CALCULATIONS**
ŞEN F., Yilmaz I., Dincer M., Cukurovali A.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.60, no.4, pp.2671-2676, 2015 (SCI-Expanded)
- XIX. **Structural and spectroscopic characterization of 4-(3-methyl-3-phenylcyclobutyl)-2-(2-propylidenehydrazinyl)thiazole: A combined experimental and DFT analysis**
ŞEN F., Dincer M., Cukurovali A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.150, pp.257-267, 2015 (SCI-Expanded)
- XX. **A comparative study on 4-(4-(3-mesityl-3-methylcyclobutyl)thiazole-2-yl)-1-thia-4-azaspiro[4.5]decan-3-one: Experimental and density functional methods**
ŞEN F., Ekici O., Dincer M., Cukurovali A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1086, pp.109-117, 2015 (SCI-Expanded)
- XXI. **A novel one-pot synthesis of heterocyclic compound (4-benzoyl-5-phenyl-2,4-pyridin-2-yl)-3,3a-dihydropyrazolo[1,5-c]pyrimidin-7(6H)-one): Structural (X-ray and DFT) and spectroscopic (FT-IR, NMR, UV-Vis and Mass) characterization Studies**
Ozdemir M., Sonmez M., ŞEN F., Dincer M., Ozdemir N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.137, pp.1304-1314, 2015 (SCI-Expanded)
- XXII. **Synthesis, spectroscopic characterization and quantum chemical computational studies on 4-(3-methyl-3-phenylcyclobutyl)-2-(2-undecylidenehydrazinyl)thiazole**
ŞEN F., Dincer M., Cukurovali A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1076, pp.1-9, 2014 (SCI-Expanded)
- XXIII. **N-[4-(3-methyl-3-mesityl-cyclobutyl)-thiazol-2-yl]-succinamic acid: X-ray structure, spectroscopic characterization and quantum chemical computational studies**
ŞEN F., Dincer M., Cukurovali A., Yilmaz I.

JOURNAL OF MOLECULAR STRUCTURE, vol.1046, pp.1-8, 2013 (SCI-Expanded)

XXIV. **Z-1-(3-Mesityl-3-methylcyclobutyl)-2-(morpholin-4-yl)ethanone oxime**

ŞEN F., DİNÇER M., ÇUKUROVALI A., YILMAZ İ.

Acta Crystallographica Section E-Structure Reports Online, vol.67, no.4, pp.958-959, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Crystal structure and Hirshfeld surface analysis of 2-[(E)-(3-cyclobutyl-1H-1,2,4-triazol-5-yl)imino]-methyl}phenol**
Gümüş M. K., Şen F., Kansız S., Dege N., Saif E.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.77, pp.1267-1280, 2021 (ESCI)
- II. **4-(3-metil-3-fenilsiklobütül)-2-(2-(piridin-4-ylmetilen)hidrazinil) tiyazol'un Sentezi, Karakterizasyonu, Kristalografik Yapısı ve Hirshfeld Yüzeyinin İncelenmesi**
ŞEN F.
Iğdir University Journal of the Institute of Science and Technology, vol.8, no.1, pp.157-168, 2018 (Peer-Reviewed Journal)
- III. **Experimental (X-ray Diffraction and FT-IR) and Quantum Chemical Studies (HF and DFT) of Ethyl 3-hydroxy-7-methyl-3-(3-methyl-3-phenylcyclobutyl)-5-phenyl-3,5-dihydro-5H-thiazolo [3,2a]pyrimidine-6-carboxylate**
ŞEN F., YILMAZ İ., DİNÇER M., ÇUKUROVALI A.
Hacettepe Journal of Biology and Chemistry, vol.2, no.45, pp.175-186, 2017 (Peer-Reviewed Journal)
- IV. **Investigation of Spectroscopic (FT-IR and NMR), Structural and Non-linear Optical Properties of 4-Chloro-2-[(4-chlorobenzylidene)amino] phenol by using DFT Quantum Chemical Calculations**
EFİL K., ŞEN F., BEKDEMİR Y., DİNÇER M.
Journal of Single Molecule Research, vol.2, no.4, pp.80-90, 2014 (Peer-Reviewed Journal)
- V. **Synthesis, X-Ray Crystallography, Thermal Analysis, and DFT Studies of Ni(II) Complex with 1-Vinylimidazole Ligand**
ŞEN F., ŞAHİN R., DİNÇER M., ANDAÇ Ö., TAŞ M.
Journal of Crystallography, vol.2014, pp.1-9, 2014 (Peer-Reviewed Journal)
- VI. **A theoretical investigation by DFT method on CR monomer that is a plastic polymer commonly used in the manufacture of eyeglass lenses**
ŞEN F., DURDU B. G., ODUNCUOĞLU M., EFİL K., DİNÇER M.
American Journal of Optics and Photonics, vol.2, no.1, pp.7-11, 2014 (Peer-Reviewed Journal)
- VII. **trans-Bis(nitrato-κO)tetrakis(1-vinyl-1H-imidazole-κN3)copper(II)**
ŞEN F., Şahin R., ANDAÇ Ö., TAŞ M.
Acta Crystallographica Section E-Structure Reports Online, vol.68, no.8, pp.1045, 2012 (Scopus)
- VIII. **4-Chloro-2-[(4-chlorobenzylidene)amino]phenol**
EFİL K., ŞEN F., BEKDEMİR Y., BÜYÜKGÜNGÖR O.
Acta Crystallographica Section E-Structure Reports Online, vol.68, no.6, pp.1696, 2012 (Scopus)
- IX. **1,1'-Bis(3-methyl-3-phenylcyclobutyl)-2,2'-(azanediyl)diethanol**
ŞEN F., DİNÇER M., ÇUKUROVALI A., YILMAZ İ.
Acta Crystallographica Section E-Structure Reports Online, vol.68, no.4, pp.1052, 2012 (Scopus)

Books & Book Chapters

- I. **Gözlük Camlarının Montajı [Optisyenlik Laboratuvarı Kılavuzu]**
Şen F.
Güneş Tıp Kitapevi, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **X-ray crystal structure, Hirshfeld surface analysis, DFT electronic structure properties of Nickel (II) complex with nicotinamide and succinic acid ligands**
ŞEN F., KANSIZ S.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- II. **Poli[diakuabis(izonikotinamit-κ2N,N') dinikel(II)-μ-süksinato-κ2O,O'] dihidrat: Karışık Ligandlı Yeni Polimerik-Ni(II) Kompleksinin Sentezi, Kristalografik, Spektroskopik, Termik Yapısı ve Hirshfeld Yüzeyinin İncelenmesi**
KANSIZ S., ŞEN F., GÜMÜŞ M. K., DEGE N.
V. International Congress on Natural and Health Sciences(ICNHS-2019), Adana, Turkey, 13 - 15 December 2019, pp.316-324
- III. **Synthesis and single-crystal X-ray diffraction studies on (3-(chloromethyl)-3-(3-methyl-3-phenylcyclobutyl)oxiran-2-yl)(3- methyl-3-phenylcyclobutyl)methanone**
ŞEN F.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019
- IV. **The crystal structure, DFT study and Hirshfeld surface analysis of hexaaquacobalt(II) dihydrogen 1,2,4,5-benzenetetracarboxylate**
KANSIZ S., DEGE N., ŞEN F.
International Eurasian Conference on Biological and Chemical Sciences(EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.290
- V. **Crystallographic Structure And Hirshfeld Surface Analysis of Polymeric bis(1,2,4,5-benzenetetracarboxylato) Dihydroxydiaqua-trizinc(II)**
KANSIZ S., DEGE N., ŞEN F.
International Eurasian Conference on Biological and Chemical Sciences(EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.1176
- VI. **1-(3-mesitil-3-metilsiklobütül)-2-((4-metil-5-(piridin-3-yl)-4H-1,2,4-triazol -3-yl)tio)etan-1-one'un Sentezi ve X – ışını Kırınımı Çalışmaları**
ŞEN F.
International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.169
- VII. **Synthesis, characterization and DFT study of polymeric catena-tetraaqua succinato-0,0-cobalt(II)**
KANSIZ S., ŞEN F., DEGE N.
International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1458
- VIII. **Crystallographic structure and DFT study of polymeric tetra-aquafumaratocobalt(II)**
KANSIZ S., ŞEN F., DEGE N.
International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1457
- IX. **The technical features to know before buying eyeglass lenses**
ŞEN F.
3rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.438
- X. **Experimental and quantum chemical studies of ethyl 3-hydroxy-7-methyl-3-(3-methyl-3-phenylcyclobutyl)-5-phenyl-3,5-dihydro-5H-thiazolo[3,2-α]pyrimidine-6-carboxylate**
ŞEN F., YILMAZ İ., DİNÇER M., ÇUKUROVALI A.
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.42-45
- XI. **The excellent harmony between the X-ray structure and theoretical calculations: Bis-[2-hydroxy-2-(3-methyl-3-phenylcyclobutyl)-ethyl]-amine**
ŞEN F., DİNÇER M., ÇUKUROVALI A., YILMAZ İ.

Supported Projects

2024 - 2025	Yeni Schiff Bazı Türevi Bileşiklerin Sentezi, Karakterizasyonu, Kuantum Kimyasal Modelleme ve Moleküler Kenetlenme Analizi, Project Supported by Higher Education Institutions
2019 - 2021	Yapısında Bis-5-amino-1,2,4-triazol Bulunduran Bazı Bileşiklerin Moleküler ve Spektral Özelliklerinin Deneysel ve Hesaplamalı Yöntemlerle İncelenmesi, Project Supported by Higher Education Institutions

Student Project

2024 - Continues	Optisyonluk – I Dersine Yönelik H5P Tabanlı Etkileşimli Dijital İçerik Tasarımı, R & D Project, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, Turkey
2023 - Continues	Tübitak 2209 - Optik cam hesaplamaları için mobil uygulama tasarımı ve geliştirilmesi, Software Project, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, Turkey
2023 - 2024	TÜBİTAK 2209 - Yüz Yapısına Uygun Optik Çerçeve Seçiminde Altın Oranın Yeri, R & D Project, Yozgat Bozok University, Sorgun Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, Turkey

Metrics

Publication: 45
Citation (WoS): 160
Citation (Scopus): 260
H-Index (WoS): 8
H-Index (Scopus): 9