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Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik A.B.D., Turkey 2005 - 2009
Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik A.B.D., Turkey 2002 - 2005
Undergraduate, Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik, Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Farklı ortam sıcaklıklarında ve farklı soğuk duvar sıcaklık etkileri altındaki sabit sıcaklık konfigürasyonunun, rejim halinden osilasyonlu marangoni konveksiyonuna geçiş üzerine deneyler., Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü, Fizik A.B.D., 2009
Postgraduate, Taramalı tünelleme elektron mikroskop yapımı ve temel bilimlere uygulamaları., Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü, Fizik A.B.D., 2005

Research Areas

Physics, Atomic and Molecular Physics, Molecular Properties and Interactions with Photon, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
Associate Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2015 - 2021
Assistant Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2015
Assistant Professor, Texas Tech University, Nano Tech Center, Electrical Engineering, 2013 - 2013
Research Assistant, Suleyman Demirel University, Fen Edebiyat Fakültesi, Fizik, 2002 - 2009

Academic and Administrative Experience

Vice Rector, Erzincan Binali Yildirim University, Rektörlük, 2022 - Continues
Chairman of the BAP Committee, Erzincan Binali Yildirim University, Rektörlük, 2022 - Continues
Head of Department, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2021 - Continues
Erzincan Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 2010 - Continues
Director of The Institution, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, 2020 - 2022
BAP Scientific Commissioner, Erzincan Binali Yildirim University, Rektörlük, 2016 - 2022
Head of Department, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2010 - 2021
Head of Department, Erzincan Binali Yildirim University, Fen Bilimleri Enstitüsü, 2018 - 2020
Manager of Research and Application Center, Erzincan Binali Yildirim University, Rektörlük, Merkez Laboratuvarları, 2018 - 2020
Temel Bilimler Araştırma ve Uygulama Merkezi /Müdür Yardımcısı, Erzincan Binali Yildirim University, Rektörlük, Merkez Laboratuvarları, 2014 - 2018

Advising Theses

Çırak Ç., ANODİK OKSİDASYON VE KİMYASAL BANYO TEKNİKLERİ İLE TiO2/ZnO NANOKOMPOZİTLERİN SENTEZLENMESİ VE FOTOKATALİTİK AKTİVİTELERİNİN İNCELENMESİ, Postgraduate, S.Kılıç(Student), 2018
Çırak Ç., Farklı konsantrasyonlarda sentezlenen TiO2/ZnO nanokompozit yapıların karakterizasyonu ve boya duyarlı güneş pili performanslarının incelenmesi, Postgraduate, Z.DEMİR(Student), 2018
DOĞAN S., ÇIRAK Ç., İki Noktalı Kırmızı Örümcek [Tetranychus urticae (Acari: Tetranychidae)] Ağının Yapısal Karakterizasyonu, Postgraduate, M.Çağlar(Student), 2017
Çırak Ç., TRİFLOROTİMİN BİYO-AJANININ MOLEKÜLER YAPISININ VE TİTREŞİM FREKANSLARININ İNCELENMESİ, Postgraduate, N.Koç(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Prussian blue modified magnetite decorated MW-CNT nanocomposite: synthesis, characterization and potential use as Photo-Fenton catalysts for phenol degradation**
Gögen Y., KOÇAK Ç. C., Karabiberoğlu Ş., Polatdemir E., Aslaner H., Zorlu R., ÇAĞLAR B., ÇIRAK Ç., ÖZDOKUR K. V.
Chemical Papers, vol.78, no.3, pp.1863-1874, 2024 (SCI-Expanded)

II. **Optimizing the structural and photocatalytic performance of Ag-decorated ZnO/Zn(OH)2 nanoparticles for RhB degradation**
ERDOĞAN E., EDEN Ç., CANPOLAT N., ÇIRAK Ç., YILMAZ M.
International Journal of Applied Ceramic Technology, 2024 (SCI-Expanded)

III. **ZnO micro/nanorods: their performance in the photocatalytic degradation and photodiode**
YILMAZ M., ÇIRAK Ç., CANPOLAT N., AYDOĞAN Ş.
Applied Physics A: Materials Science and Processing, vol.129, no.3, 2023 (SCI-Expanded)

IV. **Gold-Nanoparticles-Decorated ZrO2-CuO Nanocomposites: Synthesis, Characterization and A Novel Platform for Electrocatalytic Formaldehyde Oxidation**
Özdokur K. V., Koçak Ç. C., Eden Ç., Demir Z., Çırak Ç., Yavuz E., Çağlar B.
ChemistrySelect, vol.7, no.28, 2022 (SCI-Expanded)

V. **Bi2S3 nanorods decorated on bentonite nanocomposite for enhanced visible-light-driven photocatalytic performance towards degradation of organic dyes**
Çağlar B., Keleş Güner E., Ersoy S., Çağlar S., Özdemir A. O., Özdokur K. V., Doğan B., İçer F., Çırak Ç.
Journal of Alloys and Compounds, vol.885, 2021 (SCI-Expanded)

VI. **WO3 decorated TiO2 nanotube array electrode: Preparation, characterization and superior photoelectrochemical performance for rhodamine B dye degradation**
Davaslıoğlu İ. Ç., Özdokur K. V., Koçak S., Çırak Ç., Çağlar B., Bozkurt Çırak B., Nil Ertaş F.
Journal of Molecular Structure, vol.1241, 2021 (SCI-Expanded)

VII. **Application of BiFeO3 and Au/BiFeO3 decorated kaolinite nanocomposites as efficient photocatalyst for degradation of dye and electrocatalyst for oxygen reduction reaction**
Çağlar B., Guner E., Özdokur K. V., Özdemir A. O., İçer F., Çağlar S., Doğan B., Beşer B. M., Çırak Ç., Tabak A., et al.
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VIII. **A novel amperometric H2O2 biosensor constructed by cress peroxidase entrapped on BiFeO3 nanoparticles**
Çağlar B., İçer F., Özdokur K. V., Çağlar S., Özdemir A. O., Keleş Güner E., Beşer B. M., Altay A., Çırak Ç., Doğan B., et al.
Materials Chemistry and Physics, vol.262, 2021 (SCI-Expanded)

IX. **Graphene/polyaniline nanocomposite as platinum-free counter electrode material for dye-sensitized solar cell: its fabrication and photovoltaic performance**
Bayram O., Igman E., Guney H., Demir Z., YURTCAN M. T., ÇIRAK Ç., Hasar U. C., Simsek O.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.13, pp.10288-10297, 2020 (SCI-Expanded)

X. **Facile synthesis and enhanced photo-electrocatalytic performance of TiO2 nanotube/g-C3N4 composite catalyst by a novel synthesis approach**
Özdokur K. V., Bozkurt Çırak B., Eden Ç., Ahmad Boda M., Çırak Ç.
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XI. **Effect of illumination intensity on the characteristics of Co/Congo Red/p-Si/Al hybrid photodiode**
Kaçuş H., Çırak Ç., Aydoğan Ş.
Applied Physics A: Materials Science and Processing, vol.126, no.2, 2020 (SCI-Expanded)

XII. **The enhanced light harvesting performance of dye-sensitized solar cells based on ZnO nanorod-TiO2 nanotube hybrid photoanodes**
Bozkurt Çırak B., Eden Ç., Erdoğan Y., Demir Z., Özdokur K. V., Caglar B., Morkoç Karadeniz S., Kılınç T., Ercan Ekinci A., Çırak Ç.
Optik, vol.203, 2020 (SCI-Expanded)

XIII. **Enhancement in photoelectrochemical ability via re-engineering the band gap of multi-podal titania nanotubes on functionalizing with copper oxide nano-cubes**
Boda M. A., Shah M. A., Khan M., Çırak Ç.
Applied Surface Science, vol.499, 2020 (SCI-Expanded)

XIV. **Facile synthesis of hybrid ZnO nanostructures by combined electrodeposition and chemical bath deposition for improved performance of dye-sensitized solar cell**
Boda M. A., Bozkurt Çırak B., Demir Z., Çırak Ç.
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XV. **Molecular docking and vibrational spectroscopy studies of (E)-N '-hydroxy-1,3-diphenyl-4,5-dihydro-1H-pyrazole-5-carboximidamide**
SERT Y., GÖKCE H., Chandra C., Mahendra M., Srikantamurthy N., ÇIRAK Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.79-91, 2019 (SCI-Expanded)

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Bozkurt Çırak B., Demir Z., Eden Ç., Erdogan Y., Çağlar B., Morkoç Karadeniz S., Kılınç T., Ekinci A. E., Çırak Ç.
Journal of Materials Science: Materials in Electronics, vol.30, no.7, pp.6335-6341, 2019 (SCI-Expanded)

XVII. **Synthesis and characterization of ZnO nanorice decorated TiO2 nanotubes for enhanced photocatalytic activity**
Bozkurt Çırak B., Çağlar B., Kılınç T., Morkoç Karadeniz S., Erdogan Y., Kılıç S., Kahveci E., Ekinci A. E., Çırak Ç.
MATERIALS RESEARCH BULLETIN, vol.109, pp.160-167, 2019 (SCI-Expanded)

XVIII. **Fabrication of TiO2/ZnO/Pt nanocomposite electrode with enhanced electrocatalytic activity for methanol oxidation**
Özdokur K. V., Bozkurt Çırak B., Çağlar B., Çırak Ç., Morkoç Karadeniz S., Kılınç T., Erdogan Y., Ekinci A. E.
VACUUM, vol.155, pp.242-248, 2018 (SCI-Expanded)

XIX. **Experimental and Theoretical Spectral (FT-IR, Raman, NMR, UV-Vis and NLO) Analysis of a Potential Anti-Tumor Drug 1-Methyl-6-Nitro-1H-Benzimidazole**

OTURAK H., Kinaytürk N. K., ÇIRAK Ç.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.38, no.6, pp.1963-1969, 2018 (SCI-Expanded)

XX. **Computational Studies on the Ground State Tautomer, Hydrogen Conformations and Vibrational Spectroscopic Analysis of Antitumor Agents: 3-Deazauracil and 6-Azauracil**
ÇIRAK Ç., Körözlü N., Sert Y., UCUN F.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.38, no.4, pp.1276-1282, 2018 (SCI-Expanded)

XXI. **Synthesis, Vibrational Spectra, and DFT Simulations of 3-bromo-2-methyl-5-(4-nitrophenyl)thiophene**
Balakit A. A., Sert Y., ÇIRAK Ç., Smith K., Kariuki B. M., El-Hiti G. A.
JOURNAL OF APPLIED SPECTROSCOPY, vol.84, no.5, pp.888-899, 2017 (SCI-Expanded)

XXII. **Synthesis, surface properties, crystal structure and dye sensitized solar cell performance of TiO2 nanotube arrays anodized under different voltages**
Bozkurt Çırak B., Karadeniz S. M., Kılınç T., Çağlar B., Ekinci A. E., Yelgin H., Kurekcı M., Çırak Ç.
Vacuum, vol.144, pp.183-189, 2017 (SCI-Expanded)

XXIII. **Structural characterization of the silk of two-spotted spider mite Tetranychus urticae Koch (Acari: Tetranychidae)**
Doğan S., Çağlar M., Çağlar B., Çırak Ç., Zeytun E.
Systematic and Applied Acarology, vol.22, no.4, pp.572-583, 2017 (SCI-Expanded)

XXIV. **Structural, Morphological and Optical Properties of Well-Ordered CdO Nanostructures Synthesized by Easy-Economical Chemical Bath Deposition Technique**
Karadeniz S. M., KILINÇ T., Çırak B. B., Sakaoğlu T. I., ÇIRAK Ç., ERTUĞRUL M., EKİNCİ A. E.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.36, no.6, pp.1998-2000, 2016 (SCI-Expanded)

XXV. **Investigation of Structural, Morphological, Optical, and Electrical Properties of Al Doped ZnO Thin Films Via Spin Coating Technique**
YILMAZ M., Tatar D., SÖNMEZ E., ÇIRAK Ç., AYDOĞAN Ş., Gunturkun R.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.46, no.4, pp.489-494, 2016 (SCI-Expanded)

XXVI. **Hydrothermal growth of ZnO nanoparticles under different conditions**
YILMAZ M., Cirak B., ÇIRAK Ç., AYDOĞAN Ş.
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XXVII. **A Comparative Study on Structural and Optical Properties of ZnO Micro-Nanorod Arrays Grown on Seed Layers Using Chemical Bath Deposition and Spin Coating Methods**
Morkoç Karadeniz S., Bozkurt Çırak B., Kılınç T., Çırak Ç., İnal M., Turgut Z., Ekinci A. E., Ertuğrul M.
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.22, no.4, pp.476-480, 2016 (SCI-Expanded)

XXVIII. **Theoretical and experimental investigations on vibrational and structural properties of tolazamide**
Karakaya M., Sert Y., KUREKCI M., ESKIYURT B., ÇIRAK Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1095, pp.87-95, 2015 (SCI-Expanded)

XXIX. **Structural optimization and vibrational analysis of an antidiabetic drug: tolbutamide**
Sert Y., Karakaya M., ÇIRAK Ç., ESKIYURT B., KUREKCI M.
JOURNAL OF SULFUR CHEMISTRY, vol.36, no.4, pp.450-461, 2015 (SCI-Expanded)

XXX. **Monomer spectroscopic analysis and dimer interaction energies on N-(4-methoxybenzoyl)-2-methylbenzenesulfonamide by experimental and theoretical approaches**
Karakaya M., Sert Y., SREENIVASA S., SUCHETAN P. A., ÇIRAK Ç.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.142, pp.169-177, 2015 (SCI-Expanded)

XXXI. **FT-IR, Laser-Raman spectra and computational analysis of 5-Methyl-3-phenylisoxazole-4-carboxylic acid**
Sert Y., Mahendra M., Keskinoglu S., Chandra C., Srikantamurthy N., Umesha K. B., ÇIRAK Ç.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.139, pp.145-155, 2015 (SCI-Expanded)

XXXII. **Experimental and computational study on molecular structure and vibrational analysis of an**

antihyperglycemic biomolecule: Gliclazide
Karakaya M., KUREKCI M., ESKIYURT B., Sert Y., ÇIRAK Ç.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.137-146, 2015 (SCI-Expanded)

XXXIII. **Structural and spectroscopic analysis of 3-[(4-phenylpiperazin-1-yl)methyl]-5-(thiophen-2-yl)-2,3-dihydro-1,3,4-oxadiazole-2-thione with experimental (FT-IR, Laser-Raman) techniques and ab initio calculations**
AL-OMARY F. A. M., Karakaya M., Sert Y., HARESS N. G., EL-EMAM A. A., ÇIRAK Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1076, pp.664-672, 2014 (SCI-Expanded)

XXXIV. **Vibrational frequency analysis, FT-IR, DFT and M06-2X studies on tert-Butyl N-(thiophen-2yl)carbamate**
Sert Y., SINGER L. M., FINDLATER M., Dogan H., Cirak G.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.128, pp.46-53, 2014 (SCI-Expanded)

XXXV. **Vibrational spectroscopy investigation using M06-2X and B3LYP methods analysis on the structure of 2-Trifluoromethyl-10H-benzo[4,5]-imidazo[1,2-a]pyrimidin-4-one**
Sert Y., Mahendra M., Chandra C., Shivashankar K., Puttaraju K. B., Dogan H., ÇIRAK Ç., UCUN F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.128, pp.109-118, 2014 (SCI-Expanded)

XXXVI. **Experimental FT-IR, Laser-Raman and DFT spectroscopic analysis of 2,3,4,5,6-Pentafluoro-trans-cinnamic acid**
Sert Y., Dogan H., NAVARRETE A., SOMANATHAN R., AGUIRRE G., ÇIRAK Ç.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.128, pp.119-126, 2014 (SCI-Expanded)

XXXVII. **Vibrational spectroscopy (FT-IR and Laser-Raman) investigation, and computational (M06-2X and B3LYP) analysis on the structure of 4-(3-fluorophenyl)-1-(propan-2-ylidene)-thiosemicarbazone**
Sert Y., MIROSLAW B., ÇIRAK Ç., Dogan H., SZULCZYK D., STRUGA M.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.128, pp.91-99, 2014 (SCI-Expanded)

XXXVIII. **Effect of intermolecular hydrogen bonding, vibrational analysis and molecular structure of a biomolecule: 5-Hydroxymethyluracil**
ÇIRAK Ç., Sert Y., UCUN F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.127, pp.41-46, 2014 (SCI-Expanded)

XXXIX. **Use of vibrational spectroscopy to study 4-benzyl-3-(thiophen-2-yl)-4,5-dihydro-1H-1,2,4-triazole-5-thione: A combined theoretical and experimental approach**
Sert Y., EL-EMAM A. A., AL-ABDULLAH E. S., AL-TAMIMI A. S., Cirak Ç., UCUN F.
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XL. **The biomolecule, 2-[(2-methoxyl)sulfanyl]-4-(2-methylpropyl)-6-oxo-1,6-dihydropyrimidine-5-carbonitrile: FT-IR, Laser-Raman spectra and DFT**
Sert Y., EL-EMAM A. A., AL-DEEB O. A., AL-TURKISTANI A. A., UCUN F., ÇIRAK Ç.
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XLI. **Experimental FT-IR, Laser-Raman and DFT spectroscopic analysis of a potential chemotherapeutic agent 6-(2-methylpropyl)-4-oxo-2-sulfanylidene-1,2,3,4-tetrahydropyrimidine-5-carbonitrile**
Sert Y., AL-TURKISTANI A. A., AL-DEEB O. A., EL-EMAM A. A., UCUN F., ÇIRAK Ç.
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XLII. **Synthesis, spectroscopic and theoretical studies of ethyl (2E)-3-amino-2-({[(4-benzoyl-1,5-diphenyl-1H-pyrazol-3-yl)carbonyl]amino}carbonothioyl)but-2-enoate butanol solvate**

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XLV. **Vibrational analysis of 4-chloro-3-nitrobenzonitrile by quantum chemical calculations**
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XLVI. **Covalent grafting of pyridine-2-methanol into kaolinite layers**
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ÇIRAK Ç., KOC N.
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L. **Computational note on the ground state hydrogen conformations and vibrational analysis of 2, 3-, 4- and 5-dihydroxybenzaldehydes by density functional theory calculation**
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LII. **Silindirik Sabit Sıcaklık Konfigürasyonunda Farklı Soğuk Duvar Sıcaklık Etkisi Altında Kararlı Yüzey Gerilimli Akıştan Osilasyonlu Yüzey Gerilimli Akışa Geçişin Araştırılması.**
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International Journal of Engineering Trends and Technology (IJETT), vol.54, no.4, pp.240-242, 2017 (Scopus)

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