Assoc. Prof. FEHMİ BARDAK

Personal Information

Email: fehmi.bardak@cbu.edu.tr
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International Researcher IDs
ScholarID: VDheaIcAAAAJ
ORCID: 0000-0001-9684-3616
Publons / Web Of Science ResearcherID: S-5108-2019
ScopusID: 15126502900
Yoksis Researcher ID: 204463

Education

Doctorate, Texas Tech University, Texas Tech Graduate School , Chemistry & Biochemistry, United States Of America 2008 - 2013
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2002 - 2005
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Fizik Öğretmenliği, Turkey 2002 - 2004
Undergraduate, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Fizik, Turkey 1998 - 2002

Foreign Languages

English

Dissertations

Doctorate, Dynamics of probes in ionic liquids from ultrafast to ultraslow, Texas Tech University, 2013
Postgraduate, Bazı izonikotinik asit N-oksit metal halojen bileşiklerinin sentezlenmesi ve yapılarının IR spektroskopisi ile tayin edilmesi, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Fizik, 2005

Research Areas

Avesis Research Areas: Life Sciences, Physics, Chemistry, Natural Sciences
WoS Research Areas: Natural Sciences (Sci), Natural Sciences General, Chemistry, Physics
Scopus Research Areas: General Chemistry, Physical Sciences

Academic Positions

Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Fizik, 2021 - Present
Lecturer, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Fizik, 2014 - 2021
Research Assistant, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, 2004 - 2005

Academic and Administrative Experiences

Academic and Administrative Experience

Member of Unit Quality Commission, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Mühendislik Ve Doğa Bilimleri Fakültesi, 2021 - Present
Deputy Head of Department, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, FİZİK, 2019 - Present
Member of the Commission, Manisa Celal Bayar University, Rektörlük, Ölçme ve Değerlendirme Uygulama ve Araştırma Merkezi, 2020 - 2023
Rector's Advisor, Manisa Celal Bayar University, Rektörlük, Rektörlük, 2020 - 2023
Member of the Commission, Manisa Celal Bayar University, Rektörlük, International Relations Office, 2020 - 2023
Deputy Director of the Center, Manisa Celal Bayar University, Rektörlük, Applied Science Application and Research Center, 2019 - 2023
Member of the Commission, Manisa Celal Bayar University, Rektörlük, Computer Research and Application Center, 2019 - 2023
Member of the Commission, Manisa Celal Bayar University, Rektörlük, Distance Education Research and Application Center, 2019 - 2022
Head of Department, Manisa Celal Bayar University, Manisa Teknik Bilimler Meslek Yüksekokulu, Elektrik Ve Enerji, 2020 - 2020
Deputy Director of the Center, Manisa Celal Bayar University, Rektörlük, Distance Education Research and Application Center, 2019 - 2019

Courses

Undergraduate
Bitirme Projesi II, Undergraduate, 2023-2024, 2022-2023
Elektrik ve Elektronik - I, Undergraduate, 2023-2024
Physics I, Undergraduate, 2023-2024
Atom ve Molekül Fiziği, Undergraduate, 2022-2023
Elektrik ve Elektronik - II, Undergraduate, 2022-2023
Physics II, Undergraduate, 2022-2023, 2021-2022
Electrical Circuits and Electronics, Undergraduate, 2022-2023, 2021-2022
Teknik İngilizce III, Undergraduate, 2021-2022
Elektromanyetik Teori - I, Undergraduate, 2021-2022
Atom ve Molekül Fiziği Laboratuvarı, Undergraduate, 2021-2022
Elektromanyetik Teori - II, Undergraduate, 2021-2022
FIZ 4201.1 Teknik İngilizce III (S), Undergraduate, 2020-2021
FIZ 4209.1 Molekül Fiziği (S), Undergraduate, 2020-2021
CSE 2101.2 Electrical Circuits and Electronics, Undergraduate, 2020-2021, 2018-2019, 2017-2018
PHY 1301.2 Physics I, Undergraduate, 2020-2021, 2019-2020
CSE 2101.1 Electrical Circuits and Electronics, Undergraduate, 2020-2021, 2018-2019, 2017-2018
PHY 1301.1 Physics I, Undergraduate, 2020-2021
EEE 2103.1 Circuit Theory I, Undergraduate, 2019-2020, 2018-2019, 2017-2018
PHY 1301.11 Physics I, Undergraduate, 2019-2020
EEE 4105.1 Technical English, Undergraduate, 2019-2020
PHY 1301.7 Physics I, Undergraduate, 2019-2020
PHY 1304.1 Physics II, Undergraduate, 2019-2020
PHY 1301.10 Physics I, Undergraduate, 2019-2020, 2018-2019
EEE 2103.2 Circuit Theory I, Undergraduate, 2019-2020, 2018-2019, 2017-2018
FIZ 3144.1 Atom ve Molekül Fiziği Laboratuvarı, Undergraduate, 2019-2020
EEM 4105.1 Teknik İngilizce, Undergraduate, 2019-2020, 2015-2016
EEM 4105.2 Teknik İngilizce, Undergraduate, 2019-2020, 2015-2016
FIZ 1110.4 Sosyal Sorumluluk Ve Sosyal Etkinlik, Undergraduate, 2019-2020

EEE 4105.2 Technical English, Undergraduate, 2019-2020
PHY 1304.2 Physics II, Undergraduate, 2019-2020
PHY 1304.17 Physics II, Undergraduate, 2018-2019
EEE 2102.1 Circuit Theory II, Undergraduate, 2018-2019, 2017-2018
CSE 2302.2 Probability and Statistics for Computer Engineers, Undergraduate, 2018-2019
PHY 1304.15 Physics II, Undergraduate, 2018-2019
ENG 2162.1 Basic Electricity and Electronics, Undergraduate, 2018-2019, 2017-2018, 2016-2017, 2015-2016
ENG 3120.2 Statistics, Undergraduate, 2018-2019, 2017-2018
EEE 2102.2 Circuit Theory II, Undergraduate, 2018-2019, 2017-2018, 2016-2017
FIZ 1110.7 Sosyal Sorumluluk Ve Sosyal Etkinlik, Undergraduate, 2018-2019
PHY 1304.11 Physics II, Undergraduate, 2018-2019
ENG 3120.1 Statistics, Undergraduate, 2018-2019
CSE 2302.1 Probability and Statistics for Computer Engineers, Undergraduate, 2018-2019
EEE 4212.1 Electromagnetic Compatibility, Undergraduate, 2017-2018
PHY 1304.5 Physics II, Undergraduate, 2017-2018, 2016-2017
ENG 3120.3 Statistics, Undergraduate, 2017-2018
ENG 3120.4 Statistics, Undergraduate, 2017-2018
EEE 4212.2 Electromagnetic Compatibility, Undergraduate, 2017-2018
FIZ 1111.1 Fizik Laboratuvarı - I, Undergraduate, 2016-2017
ARP 4001.10 Araştırma Projesi, Undergraduate, 2016-2017
CSE 2302.3 Probability and Statistics for Computer Engineers, Undergraduate, 2016-2017
EEE 2102.3 Circuit Theory II, Undergraduate, 2016-2017
FIZ 1301.4 Fizik I, Undergraduate, 2016-2017
FIZ 1301.3 Fizik I, Undergraduate, 2016-2017
FIZ 2131.1 Modern Fizik Laboratuvarı I, Undergraduate, 2016-2017
FIZ 3233.1 Klasik Mekanik (S), Undergraduate, 2016-2017
CSE 2302.4 Probability and Statistics for Computer Engineers, Undergraduate, 2016-2017
FIZ 2161.1 Fizikçiler İçin Diferansiyel Denklemler I, Undergraduate, 2016-2017
FIZ 2172.1 Fizikçiler İçin Diferansiyel Denklemler II, Undergraduate, 2015-2016
FIZ 2202.1 Programlama Dili II (S), Undergraduate, 2015-2016, 2014-2015
FIZ 1305.1 Fizik I, Undergraduate, 2015-2016
TAR 1121.1 Temel Bilgi Teknolojisi Kullanımı, Undergraduate, 2015-2016
EEM 2117.1 Olasılık ve İstatistik, Undergraduate, 2015-2016
EEM 2117.2 Olasılık ve İstatistik, Undergraduate, 2015-2016
FIZ 2132.1 Modern Fizik Laboratuvarı II, Undergraduate, 2015-2016
TAR 1121.3 Temel Bilgi Teknolojisi Kullanımı, Undergraduate, 2015-2016
PHY 1303.1 General Physics, Undergraduate, 2015-2016
FIZ 1122.1 Temel Bilgisayar Bilimleri, Undergraduate, 2014-2015
FIZ 2121.1 Modern Fizik I, Undergraduate, 2014-2015
ARP 4002.17 Araştırma Projesi, Undergraduate, 2014-2015
FIZ 1302.1 Biyofizik, Undergraduate, 2014-2015
FIZ 4212.1 Spektroskopi (S), Undergraduate, 2014-2015
FIZ 4224.1 Teknik İngilizce IV (S), Undergraduate, 2014-2015

Undergraduate Minor

Atomik Spektroskopi, Undergraduate Minor, 2021-2022
FIZ 6242.1 Atomik Spektroskopi, Undergraduate Minor, 2019-2020

Undergraduate Double Major

İleri İstatistik Mekanik I, Undergraduate Double Major, 2023-2024, 2021-2022
İleri İstatistik Mekanik II, Undergraduate Double Major, 2021-2022
FIZ 5215.1 İleri İstatistik Mekanik I, Undergraduate Double Major, 2020-2021

Supervised Theses

BARDAK F., FDA ONAYLI PROTEİN KİNAZ İNHİBİTÖRLERİNİN ELEKTRONİK YAPI, REAKTİVİTE, ADME VE İLAÇ-ENZİM ETKİLEŞMELERİNİN İNCELENMESİ, Doctorate, F.BÜTÜN(Student), 2024

Articles

I. **Exploring structural, electronic, and spectroscopic features along with interionic interactions of 1-benzyl-3-methylimidazolium chloride ionic liquid: Insights from quantum chemical and experimental analysis**
BARDAK F., BİLGİLİ S., ATAÇ A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1381, 2027 (SCI-Expanded, Scopus)

II. **Comprehensive PCM and QM/MM-MD investigation of absorption and emission properties in N-methylindoles**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.344, 2026 (SCI-Expanded, Scopus)

III. **Ultrafast excited-state dynamics and transient absorption spectra of [BMIM][BF_4] in acetonitrile: A QM/MM–trajectory surface hopping study**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
Journal of Molecular Liquids, vol.437, 2025 (SCI-Expanded, Scopus)

IV. **Experimental and computational insights into the electronic structures and absorption-emission characteristics of coumarin, C-6H, C-153, and C-343 dyes**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.335, 2025 (SCI-Expanded, Scopus)

V. **Electric field modulation of electronic structure, charge transfer, and nonlinear optical properties of crocetin for dye-sensitized solar cells**
BARDAK F., BARDAK C.
Journal of Molecular Structure, vol.1322, 2025 (SCI-Expanded, Scopus)

VI. **Empirical, computational studies and non-covalent interactions analysis of a novel salt with cadmium transition metal precursor**
Jomaa I., Issaoui N., BARDAK F., Roisnel T., ATAÇ A., Marouani H.
Journal of Molecular Structure, vol.1322, 2025 (SCI-Expanded, Scopus)

VII. **Computational Insight into Warfarin Blockage by Silymarin Components via DFT and Molecular Docking**
BARDAK F.
ChemistrySelect, vol.9, no.42, 2024 (SCI-Expanded, Scopus)

VIII. **Investigating the Molecular and Spectroscopic Properties of 2-chloroquinoline by Quantum Chemical Computational Methods**
BARDAK F., Kose E.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.24, no.3, pp.504-518, 2024 (TRDizin)

IX. **Synthesis of 2-amino-5-methylpyridinium tetrachloridocadmate(II) (C6H9N2)2[CdCl4]: Structure, DFT-calculated descriptors and molecular docking study**
Jomaa I., BARDAK F., ISSAOUI N., Cabeza A., Choquesillo-Lazarte D., ATAÇ A., Marouani H., Al-Dossary O. M.
Journal of King Saud University - Science, vol.36, no.5, 2024 (SCI-Expanded, Scopus)

X. **A comprehensive study on the effect of substitution position and solvent effect on absorption and emission characteristics of n-methylindoles via linear response and State-Specific formalisms**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
Journal of Photochemistry and Photobiology A: Chemistry, vol.450, 2024 (SCI-Expanded, Scopus)

XI. **Single and binary nickel, copper, and zinc-based nanosized oxides as anode materials in lithium-ion**

batteries

Egesoy E., Kap Ö., BARDAK F., Horzum N., ATAÇ A.

Journal of Materials Science: Materials in Electronics, vol.35, no.2, 2024 (SCI-Expanded, Scopus)

XII. **Effect of anion and methylation on the interionic interactions and reactivity of 1-butyl-2,3-dimethyl imidazolium-based ionic liquids**

Bilgili S., BARDAK F., ATAÇ A.

Journal of Molecular Liquids, vol.392, 2023 (SCI-Expanded, Scopus)

XIII. **External field intensity and wavelength dependency from IR to deep UV of linear and nonlinear optical properties of 1-butyl-3-methylimidazolium dicyanamide ionic liquid**

BARDAK F., BARDAK C.

Journal of Molecular Liquids, vol.390, 2023 (SCI-Expanded, Scopus)

XIV. **Experimental and DFT-Based Investigation of Structural, Spectroscopic, and Electronic Features of 6-Chloroquinoline**

Kose E., BARDAK F.

Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.3, pp.271-281, 2023 (TRDizin)

XV. **Investigation of the interionic interactions and spectroscopic features of 1-Octyl-3-methylimidazolium chloride, tetrafluoroborate, and hexafluorophosphate ionic liquids: An experimental survey and DFT modeling**

Bilgili S., BARDAK F., KÖSE E., ATAÇ A.

Journal of Molecular Structure, vol.1261, 2022 (SCI-Expanded, Scopus)

XVI. **Non covalent interactions analysis and spectroscopic characterization combined with molecular docking study of N′-(4-Methoxybenzylidene)-5-phenyl-1H-pyrazole-3-carbohydrazide**

Sagaama A., Issaoui N., BARDAK F., Al-Dossary O., Kazachenko A. S., Karrouchi K., ATAÇ A., Wojcik M. J.

Journal of King Saud University - Science, vol.34, no.2, 2022 (SCI-Expanded, Scopus)

XVII. **Anionic dependency of electronic and nonlinear optical properties of ionic liquids**

BARDAK F., BARDAK C., KARACA Ç., KÖSE E., Bilgili S., ATAÇ A.

Journal of Molecular Liquids, vol.345, 2022 (SCI-Expanded, Scopus)

XVIII. **Structural, theoretical and third order nonlinear optical properties of (E)-N'-(4-chlorobenzylidene)-4-fluorobenzohydrazide monohydrate**

Latha N., Barathi D., Uthaya Kumar M., Vennila K., Vinitha G., Mani R., Louhi-Kultanen M., BARDAK F., ATAÇ A., KÖSE E.

Molecular Crystals and Liquid Crystals, vol.725, no.1, pp.66-80, 2021 (SCI-Expanded, Scopus)

XIX. **Theoretical and experimental investigation of the spectroscopic features of and interionic interactions in 1-hexyl-3-methylimidazolium chloride, 1-hexyl-3-methylimidazolium tetrafluoroborate and 1-hexyl-3-methylimidazolium hexafluorophosphate ionic liquids**

Bilgili S., ATAÇ A., BARDAK F.

Journal of Molecular Liquids, vol.301, 2020 (SCI-Expanded, Scopus)

XX. **The investigation of fluorine substitution in difluoroanilines with focus on 2,6-difluoroaniline by spectroscopic methods, density functional theory approach, and molecular docking**

KÖSE E., BARDAK F., ATAÇ A.

JOURNAL OF MOLECULAR STRUCTURE, vol.1196, pp.201-214, 2019 (SCI-Expanded, Scopus)

XXI. **Synthesis and physic-chemical properties of a novel chromate compound with potential biological applications, bis(2-phenylethylammonium) chromate(VI)**

Trabelsi S., Issaoui N., Brandán S. A., BARDAK F., Roisnel T., ATAÇ A., Marouani H.

Journal of Molecular Structure, vol.1185, pp.168-182, 2019 (SCI-Expanded, Scopus)

XXII. **Experimental and DFT analysis of structural and spectroscopic features of nitroterephthalic acid, and computational insights into its molecular interactions with hER-α via molecular docking**

BARDAK F.

Journal of Molecular Structure, vol.1175, pp.458-470, 2019 (SCI-Expanded, Scopus)

XXIII. **Effect of the external electric field on the electronic structure, spectroscopic features, NLO properties, and interionic interactions in ionic liquids: A DFT approach**

BARDAK C., ATAÇ A., BARDAK F.
Journal of Molecular Liquids, vol.273, pp.314-325, 2019 (SCI-Expanded, Scopus)

XXIV. **The structural and spectroscopic investigation of 2-chloro-3-methylquinoline by DFT method and UV-Vis, NMR and vibrational spectral techniques combined with molecular docking analysis**
KÖSE E., ATAÇ A., BARDAK F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1163, pp.147-160, 2018 (SCI-Expanded, Scopus)

XXV. **Intermolecular interactions and molecular docking investigations on 4-methoxybenzaldehyde**
Ghalla H., Issaoui N., BARDAK F., ATAÇ A.
Computational Materials Science, vol.149, pp.291-300, 2018 (SCI-Expanded, Scopus)

XXVI. **Synthesis, structural and spectroscopic features, and investigation of bioactive nature of a novel organic-inorganic hybrid material 1H-1,2,4-triazole-4-ium trioxonitrate**
Gatfaoui S., Issaoui N., Mezni A., BARDAK F., Roisnel T., ATAÇ A., Marouani H.
Journal of Molecular Structure, vol.1150, pp.242-257, 2017 (SCI-Expanded, Scopus)

XXVII. **Experimental FTIR and FT-Raman and theoretical studies on the molecular structures of monomer and dimer of 3-thiopheneacrylic acid**
Issaoui N., Ghalla H., Brandán S. A., BARDAK F., Flakus H., ATAÇ A., Oujia B.
Journal of Molecular Structure, vol.1135, pp.209-221, 2017 (SCI-Expanded, Scopus)

XXVIII. **Combined experimental and theoretical studies on the molecular structures, spectroscopy, and inhibitor activity of 3-(2-thienyl)acrylic acid through AIM, NBO,FT-IR, FT-Raman, UV and HOMO-LUMO analyses, and molecular docking**
Issaoui N., Ghalla H., BARDAK F., Karabacak M., Aouled Dlala N., Flakus H., Oujia B.
Journal of Molecular Structure, vol.1130, pp.659-668, 2017 (SCI-Expanded, Scopus)

XXIX. **Comparative study of the intermolecular dynamics of imidazolium-based ionic liquids with linear and branched alkyl chains: OHD-RIKES measurements**
Xue L., BARDAK F., Tamas G., Quitevis E. L.
Physical Chemistry Chemical Physics, vol.19, no.6, pp.4661-4672, 2017 (SCI-Expanded, Scopus)

XXX. **Spectral investigations of 2,5-difluoroaniline by using mass, electronic absorption, NMR, and vibrational spectra**
KÖSE E., Karabacak M., BARDAK F., ATAÇ A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1123, pp.284-299, 2016 (SCI-Expanded, Scopus)

XXXI. **Conformational, electronic, and spectroscopic characterization of isophthalic acid (monomer and dimer structures) experimentally and by DFT**
BARDAK F., KARACA Ç., Bilgili S., ATAÇ A., Mavis T., Asiri A., Karabacak M., KÖSE E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.165, pp.33-46, 2016 (SCI-Expanded, Scopus)

XXXII. **Heterogeneous dynamics in ionic liquids at the glass transition: Fluorescence recovery after photobleaching measurements of probe rotational motion from Tg - 6 K to Tg + 4 K**
BARDAK F., Rajian J. R., Son P., Quitevis E. L.
Journal of Non-Crystalline Solids, vol.407, pp.324-332, 2015 (SCI-Expanded, Scopus)

XXXIII. **Determination of structural and vibrational spectroscopic features of neutral and anion forms of dinicotinic acid by using NMR, infrared and Raman experimental methods combined with DFT and HF**
KÖSE E., BARDAK F., ATAÇ A., Karabacak M., ÇİPİLOĞLU M. A.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.114, pp.38-45, 2013 (SCI-Expanded, Scopus)

XXXIV. **OKE spectroscopy and molecular dynamics simulations of nonpolar and polar molecules in ionic liquids**
Quitevis E. L., BARDAK F., Xiao D., Hines Jr. L. G., Son P., Bartsch R. A., Yang P., Voth G. A.
ACS Symposium Series, vol.1117, pp.271-287, 2012 (Scopus)

XXXV. **Nanostructural organization in acetonitrile/ionic liquid mixtures: Molecular dynamics simulations and optical Kerr effect spectroscopy**

BARDAK F., Xiao D., Hines L. G., Son P., Bartsch R. A., Quitevis E. L., Yang P., Voth G. A.
ChemPhysChem, vol.13, no.7, pp.1687-1700, 2012 (SCI-Expanded, Scopus)

XXXVI. **Infrared and Raman study of some isonicotinic acid metal(II) halide and tetracyanonickelate complexes**
BARDAK F., ATAÇ A., Kurt M.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.71, no.5, pp.1896-1900, 2009 (SCI-Expanded, Scopus)

XXXVII. **Synthesis and vibrational spectroscopic study of some metal(II) halide and tetracyanonickelate complexes of isonicotinic acid**
ATAÇ A., BARDAK F.
Turkish Journal of Chemistry, vol.30, no.5, pp.609-618, 2006 (SCI-Expanded, Scopus, TRDizin)

XXXVIII. **Spectroscopic and luminescence properties of an isonicotinic acid**
Can N., ATAÇ A., BARDAK F., Sözerli Can Ş. E.
Turkish Journal of Chemistry, vol.29, no.6, pp.589-595, 2005 (SCI-Expanded, Scopus, TRDizin)

XXXIX. **Structural characterization and luminescence properties of an isonicotinic acid N-oxide Mn(II) complex**
Can N., Sözerli Can S., ATAÇ A., BARDAK F.
Polyhedron, vol.23, no.7, pp.1109-1113, 2004 (SCI-Expanded, Scopus)

Books

I. **OKE Spectroscopy and Molecular Dynamics Simulations of Nonpolar and Polar Molecules in Ionic Liquids**
Edward L Q., BARDAK F., Dong X., Larry G H., Pillhun S., Richard A B., Peng Y., Gregory A V., CENGİL M., YAKUT S.
in: Ionic Liquids: Science and Applications, A. E. Visser, N. J. Bridges, R. D. Rogers, Eds, Editor, American Chemical Society, Washington, pp.271-287, 2012

Papers Presented at Peer-Reviewed Scientific Conferences

I. **ELECTRONIC STRUCTURE, POLARIZATION AND REACTIVITY OF ASPIRIN UNDER EXTERNAL ELECTRIC FIELD: TOWARDS A BETTER UNDERSTANDING OF ITS METABOLIZATIN**
BARDAK F., BARDAK C.
TURKISH PHYSICAL SOCIETY 40th INTERNATIONAL PHYSICS CONGRESS, Turkey, 02 September 2024, (Summary Text)

II. **Electronic Structure, Polarization and Reactivity of Aspirin Under External Electric Field: Towards A Better Understanding of its Metabolization**
BARDAK F., BARDAK C.
TURKISH PHYSICAL SOCIETY 40th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 02 September 2024, (Summary Text)

III. **The Investigation of Electronic Structure, Reactivity, Toxicity, and Binding Characteristics to Estrogen Receptor of Some Tamoxifen Derivatives**
BARDAK F.
TURKISH PHYSICAL SOCIETY 39th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023, (Summary Text)

IV. **Transient Absorption Spectrum Simulation with QM/MM MD methods under Explicit Polar Solvent using the recent COBRAMM scripts**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
TURKISH PHYSICAL SOCIETY 38th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August 2022, (Summary Text)

V. **Static and Dynamic Modeling of N-Methyl-Indole (N=1-6) in Water at the B3LYP/AMBER Level Using the COBRAMM Interface**
KARACA Ç., BARDAK F., KÖSE E., ATAÇ A.
7. ULUSAL YÜKSEK BAŞARIMLI HESAPLAMA KONFERANSI, İstanbul, Turkey, 11 - 13 May 2022, (Summary Text)

VI. **Structure, Reactivity, and Ligand-Protein Interactions of some Nucleos(T)Ide Analog Reverse Transcriptase Inhibitors**
BARDAK F.
Ankara International Congress on Scientific Research-VI, Ankara, Turkey, 01 April 2022, (Summary Text)

VII. **Dynamic polarizability and hyperpolarizabilities of 1-butyl-3-methylimidazolium dicyanamide ionic liquid**
BARDAK F.
5. International Turkish Congress on Molecular Spectroscopy, Turkey, 26 March 2022, (Summary Text)

VIII. **A Case Study for Exploration of Implicit Solvent Effect by Linear Response and State-Specific Polarizable Continuum Model: Effect of Methyl Substitution in Indole Derivatives on Absorption and Emission Characteristics**
Karaca Ç., Bardak F., Köse E., Ataç A.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 01 September 2021, (Summary Text)

IX. **4-Kinolinboronik Asidin Yoğunluk Fonksiyonel Teorisi Kullanılarak Konformasyonel ve Spektroskopik Analizi**
KÖSE E., BARDAK F., ATAÇ A.
11. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 20 August 2021, (Summary Text)

X. **The effect of chain length in ionic liquids onto proteinstabilization: The case of [CnC1im] [PF6] via DFT andmolecular docking approach**
BARDAK F.
International Congress on the World of Technology and Advanced MaterialsWITAM2018, 21 - 23 September 2018, (Full Text)

XI. **Molecular structural analysis and spectral investigation of 2-chloroethyl benzene**
KARACA Ç., ATAÇ A., KÖSE E., BARDAK F.
International Congress on the World of Technology and Advanced Materials WITAM-2018, Kırşehir, Turkey, 21 - 23 September 2018, (Full Text)

XII. **Quantum chemical simulations of solvent influence on Absorption and Emission spectra of 9-Bromoanthracene and 9-Bromophenanthrene**
KARACA Ç., ATAÇ A., KÖSE E., BARDAK F.
International Congress on the World of Technology and Advanced Materials WITAM-2018, Kırşehir, Turkey, 21 - 23 September 2018, (Summary Text)

XIII. **Elektrik alan etkisi altında iyonik sıvıların elektronik yapı ve optiközelliklerinin incelenmesi: HmimCl'deki durum**
BARDAK C., BARDAK F.
Adım Fizik Günleri VII, Turkey, 23 - 25 May 2018, (Summary Text)

XIV. **"Oktil zincirine sahip imidazol içeren bazı iyonik sıvılarınyapıları üzerinde anyon etkilerinin, spektroskopik ve elektronik özelliklerinin araştırılması**
BİLGİLİ S., ATAÇ A., BARDAK F.
AdimFizik Günleri VII, Aydın, Turkey, 23 - 25 May 2018

XV. **Linear-Response ve state-specific yaklaşımları kullanılarak mono ve di-metilnaftalen türevlerinin çözelti etkisi altında elektronik geçişleri**
KARACA Ç., ATAÇ A., KÖSE E., BARDAK F.
Adım Fizik Günleri VII, Aydın, Turkey, 23 - 25 May 2018, (Summary Text)

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Metrics

Publication: 86

Citation (WoS): 696
Citation (Scopus): 774
H-Index (WoS): 13
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Non Academic Experience

Ministry, MİLLİ EĞİTİM BAKANLIĞI, Konak İlçe Milli Eğitim Müdürlüğü, Memur