

Prof. Kubilay BALCI

Personal Information

Office Phone: [+90 212 455 5700](tel:+902124555700) Extension: 15240

Fax Phone: [+90 212 519 0834](tel:+902125190834)

Email: kbalci@istanbul.edu.tr

Web: <http://aves.istanbul.edu.tr/kbalci/>

Address: İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, Atom ve Molekül Fiziği Anabilim Dalı, 34134 Vezneciler, İSTANBUL

International Researcher IDs

ORCID: 0000-0001-5788-2241

Publons / Web Of Science ResearcherID: AAD-2982-2020

Yoksis Researcher ID: 54889

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Turkey 1998 - 2003

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Turkey 1994 - 1997

Undergraduate, Gazi University, Eğitim Fakültesi, Fizik Eğitimi, Turkey 1989 - 1993

Foreign Languages

German, A2 Elementary

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, İSTANBUL ÜNİVERSİTESİ - İŞ SAĞLIĞI VE GÜVENLİĞİ EĞİTİMİ, İstanbul Üniversitesi, 2022

Occupational Health and Safety, İSTANBUL ÜNİVERSİTESİ İŞ SAĞLIĞI VE GÜVENLİĞİ EĞİTİMİ, İSTANBUL ÜNİVERSİTESİ, 2021

Occupational Health and Safety, İSTANBUL ÜNİVERSİTESİ İŞ SAĞLIĞI VE GÜVENLİĞİ EĞİTİMİ, İSTANBUL ÜNİVERSİTESİ, 2018

Education Management and Planning, Linux'a Giriş Eğitimi Kursu, İstanbul Üniversitesi Fen Fakültesi ve Enformatik Bölümü, 2007

Education Management and Planning, Akademik Personel Yönelik Pedagojik Formasyon Sertifikası, İstanbul Üniversitesi Hasan Ali Yücel Eğitim Fakültesi Dekanlığı, 2004

Education Management and Planning, Visual Basic Eğitim Kursu, Marmara Üniversitesi Mühendislik Fakültesi-Bilgisayar Mühendisliği Bölümü, 1999

Other, CMAS - 1 Yıldız Balık Adam Sertifikası, Türkiye Sualtı Sporları Federasyonu (TSSF), 1999

Dissertations

Doctorate, Primidin ve Aminoprimidin Moleküllerinin Serbest Halde ve Kompleks Yapıdaki Titreşim Frekanslarının Hesaplanması, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, 2003

Postgraduate, 2- ve 3-Methyl Pridin Moleküllerinin Normal Koordinat Analizi ve Titreşim Spektrumlarının Simülasyonu, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, 1997

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic and Molecular Interactions, Spectroscopical Methods, Spectroscopy, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2018 - Continues
Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2012 - 2018
Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2006 - 2012
Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 1997 - 2006

Academic and Administrative Experience

FEDEK Ölçüt-1 Komisyon Başkanlığı, Istanbul University, Faculty Of Science, Department Of Physics, 2016 - 2017
Fen Fakültesi Bilgisayar Laboratuvarı Sorumlusu, Istanbul University, Faculty Of Science, Department Of Physics, 2013 - 2016
Mezuniyet İnceleme Komisyonu, Istanbul University, Faculty Of Science, Department Of Physics, 2010 - 2012
İstanbul Üniversitesi, Bilimsel Araştırma Projeleri (Bap) Birimi - Doğrudan Temin Komisyonu , 2007 - 2007
İstanbul Üniversitesi, Bilimsel Araştırma Projeleri (Bap) Birimi - Yaklaşık Maliyet Komisyonu, 2005 - 2007

Courses

GENERAL PHYSICS, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
COMPUTER II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
PHYSICS IV, Undergraduate, 2021 - 2022
MOLEKÜLER YAPILARIN MODELLENMESİ I, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
GENERAL PHYSICS, Undergraduate, 2021 - 2022, 2020 - 2021
PHYSICS IV, Undergraduate, 2021 - 2022
COMPUTER III, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
VERİTABANI UYGULAMALARI, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
MOLEKÜLER YAPILARIN MODELLENMESİ II, Doctorate, 2020 - 2021, 2019 - 2020
İLERİ FİZİK UYGULAMALARI I, Undergraduate, 2021 - 2022
VERİTABANI UYGULAMALARI, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
VERİTABANI UYGULAMALARI, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
PHYSICS I, Undergraduate, 2021 - 2022
İLERİ FİZİK UYGULAMALARI, Undergraduate, 2020 - 2021
INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING, Undergraduate, 2020 - 2021
BİLGİSAYAR I, Undergraduate, 2019 - 2020
İLERİ FİZİK UYGULAMALARI, Undergraduate, 2018 - 2019
MOLEKÜLER YAPILARIN MODELLENMESİ I, Postgraduate, 2019 - 2020
COMPUTER III, Undergraduate, 2019 - 2020
MOLEKÜLER YAPILARIN MODELLENMESİ II, Doctorate, 2018 - 2019
BİLGİSAYAR III, Undergraduate, 2018 - 2019, 2017 - 2018, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

MOLEKÜLER YAPILARIN MODELLENMESİ II, Doctorate, 2017 - 2018
BİLGİSAYAR I, Undergraduate, 2018 - 2019
BİLGİSAYAR I, Undergraduate, 2018 - 2019, 2017 - 2018
BİLGİSAYAR III, Undergraduate, 2018 - 2019, 2007 - 2008
VERİTABANI UYGULAMALARI, Undergraduate, 2017 - 2018
MOLEKÜLER YAPILARIN MODELLENMESİ II, Doctorate, 2016 - 2017
FİZİK I, Undergraduate, 2017 - 2018
BİLGİSAYAR IV, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013
İLERİ FİZİK UYGULAMALARI, Undergraduate, 2016 - 2017
VERİTABANI UYGULAMALARI (2. ÖĞRETİM), Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
MOLEKÜLER YAPILARIN MODELLENMESİ I, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
BİLGİSAYAR III, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
İLERİ FİZİK UYGULAMALARI, Undergraduate, 2015 - 2016, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
Moleküler Yapıların Modellenmesi II, Doctorate, 2014 - 2015, 2013 - 2014
FİZİK II (2.öğretim), Undergraduate, 2014 - 2015
BİLGİSAYAR IV, Undergraduate, 2013 - 2014
FİZİK II, Undergraduate, 2013 - 2014
BİLGİSAYAR IV (2. Öğretim), Undergraduate, 2013 - 2014
BİLGİSAYAR IV (İ.Ö.), Undergraduate, 2012 - 2013
FİZİK II (İ.Ö.), Undergraduate, 2012 - 2013
Çok Cisim Problemleri I, Doctorate, 2013 - 2014
BİLGİSAYAR III (İ.Ö.), Undergraduate, 2013 - 2014
BİLGİSAYAR III, Undergraduate, 2013 - 2014
FİZİK II, Undergraduate, 2012 - 2013
FİZİK IV, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
BİLGİSAYAR IV, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
GENEL FİZİK, Undergraduate, 2012 - 2013, 2011 - 2012
BİLGİSAYAR III (İ.Ö.), Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
BİLGİSAYAR IV, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
BİLGİSAYAR III, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
BİLGİSAYAR IV (İ.Ö.), Undergraduate, 2011 - 2012, 2010 - 2011
BİLGİSAYAR IV (İ.Ö.), Undergraduate, 2010 - 2011
BİLGİSAYAR III (İ.Ö.), Undergraduate, 2010 - 2011
FİZİK II, Undergraduate, 2007 - 2008
BİLGİSAYAR IV, Undergraduate, 2007 - 2008
BİLGİSAYAR IV, Undergraduate, 2007 - 2008
FİZİK II, Undergraduate, 2007 - 2008
FİZİK I, Undergraduate, 2007 - 2008
FİZİK II, Undergraduate, 2006 - 2007
BİLGİSAYAR II, Undergraduate, 2006 - 2007
FİZİK I, Undergraduate, 2007 - 2008
BİLGİSAYAR III, Undergraduate, 2007 - 2008
BİLGİSAYAR I, Undergraduate, 2006 - 2007
FİZİK I, Undergraduate, 2006 - 2007
BİLGİSAYAR I, Undergraduate, 2006 - 2007

Advising Theses

Balci K., ZOLEDRONİK ASİT VE DİFLOROMETİL ORNİTİN MOLEKÜLLERİNİN KARARLI KONFORMERLERİNİN VE TİTREŞİMSSEL SPEKTRUMLARININ İNCELENMESİ, Doctorate, D.ERDAŞ(Student), Continues

Balci K., Carbidopa, Lomustine ve DL-Aminoglutethimide Moleküllerinin Yapısal Özelliklerinin ve Titreşimsel Spektrumlarının İncelenmesi, Doctorate, C.ARMAN(Student), Continues

BALCI K., Flutamide Molekülünün Yapısal Özellikleri ve Titreşimsel Spektrumlarının Analizi, Postgraduate, C.ARMAN(Student), 2018

BALCI K., Nocodazole Molekülünün Konformasyonel Yapısı ve Titreşimsel Spektrumlarının Analizi, Postgraduate, G.ARSLANCAN(Student), 2013

BALCI K., Ibuprofen Molekülünün Oda Sıcaklığındaki Kararlı Konformerlerinin Belirlenmesi ve Deneysel Titreşimsel Spektrumlarının Analizi, Postgraduate, A.AKBAY(Student), 2010

Jury Memberships

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, July, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2021

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, August, 2020

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, March, 2020

Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2020

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, December, 2019

Post Graduate, Post Graduate, İstanbul Üniversitesi, July, 2019

Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2019

Competition, Selim Demiren Fen Bilimleri Proje Yarışması, ALKEV ÖZEL FEN LİSESİ, May, 2019

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, February, 2019

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, January, 2019

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, December, 2018

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, June, 2018

Doctorate, Doktora Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, January, 2016

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, July, 2015

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, December, 2014

Post Graduate, Post Graduate, İstanbul Üniversitesi, December, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, June, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, June, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, June, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, May, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi , Fen Bilimleri Enstitüsü, May, 2013

Post Graduate, Post Graduate, İstanbul Üniversitesi, December, 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The effects of conformation and intermolecular hydrogen bonding on the structure and IR spectra of flutamide; a study based on the matrix isolation technique, ab initio and DFT calculations**
ARMAN C., BALCI K., AKKAYA Y., Akyuz S., Reaves-Mckee T., Frankamp A., Coates J., Collier W., Ritzhaupt G., Klehm C., et al.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.292, 2023 (SCI-Expanded)
- II. **An investigation on the structure and group vibrations of balenine molecule by matrix isolation IR spectroscopy, DFT and MP2 based calculations**
Balci K., Akkaya Y., Arman C., Goren Y., Akyuz S., Hacker A., Vleet H. V., Ritzhaupt G., Collier W.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.268, pp.120678-120701,

2022 (SCI-Expanded)

- III. **Investigations of historical textiles from the Imperial Pavilion (Hunkar Kasri) of the new mosque Eminonu-Istanbul (Turkey) by multiple analytical techniques**
Akyuz T., Akyuz S., Balci K., Gulec A.
Journal of Cultural Heritage, vol.25, pp.180-184, 2017 (SCI-Expanded)
- IV. **The effects of conformation and zwitterionic tautomerism on the structural and vibrational spectral data of anserine**
Balci K., Akkaya Y., Akyuz S., Collier W. B., Stricker M. C., Stover D. D., Ritzhaupt G., Koch A., Kleinpeter E.
VIBRATIONAL SPECTROSCOPY, vol.86, pp.277-289, 2016 (SCI-Expanded)
- V. **Investigations of Ancient Terra-cotta Sarcophagi, Excavated in Enez (Ainos) Turkey, by Instrumental Neutron Activation Analysis**
Akyuz S., Akyuz T., Mukhamedshina N. M., Balci K., Mirsagatova A. A., Kurap G., Basarans S.
CROATICA CHEMICA ACTA, vol.88, 2015 (SCI-Expanded)
- VI. **A vibrational spectroscopy study on anserine and its aqueous solutions**
Akkaya Y., Balci K., Goren Y., Akyüz S., Stricker M. C., Stover D. D., Ritzhaupt G., Collier W. B.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.149, pp.812-821, 2015 (SCI-Expanded)
- VII. **A vibrational spectroscopy study on 3-aminophenylacetic acid by DFT calculations**
Akkaya Y., Balci K., Goren Y., Akyuz S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.147, pp.303-315, 2015 (SCI-Expanded)
- VIII. **The effects of conformation and intermolecular hydrogen bonding on the structural and vibrational spectral data of naproxen molecule**
Balci K.
VIBRATIONAL SPECTROSCOPY, vol.70, pp.168-186, 2014 (SCI-Expanded)
- IX. **A conformational analysis and vibrational spectroscopic investigation on 1,2-bis(o-carboxyphenoxy) ethane molecule**
Balci K., Yapar G., Akkaya Y., Akyuz S., Koch A., Kleinpeter E.
Vibrational Spectroscopy, vol.58, pp.27-43, 2012 (SCI-Expanded)
- X. **Raman micro-spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**
Akyuz S., Ozel A., Balci K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.319-323, 2011 (SCI-Expanded)
- XI. **Raman micro-spectroscopic analysis of cultured HCT116 colon cancer cells in the presence of roscovitine**
Akyuz S., Ozel A., Balci K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.78, pp.1540-1547, 2011 (SCI-Expanded)
- XII. **DFT and MP2 based quantum mechanical calculations and a theoretical vibrational spectroscopic investigation on roscovitine, a potential drug to treat cancers**
Balci K., Akkaya Y., Akyuz S., Palavan-Unsal N.
Journal of Raman Spectroscopy, vol.42, no.4, pp.719-732, 2011 (SCI-Expanded)
- XIII. **An experimental and theoretical vibrational spectroscopic study on niflumic acid, a non-steroidal anti-inflammatory drug**
Balci K., Akkaya Y., Akyuz S.
Vibrational Spectroscopy, vol.53, no.2, pp.239-247, 2010 (SCI-Expanded)
- XIV. **A theoretical IR spectroscopic study based on DFT calculations for free mn-15S203 maleonitrile-dithiacrown ether compound**
Bald K., Koch A., Kleinpeter E.
Journal of Molecular Structure, vol.919, pp.128-139, 2009 (SCI-Expanded)
- XV. **A vibrational spectroscopic investigation on benzocaine molecule**

- Balci K., Akyuz S.
VIBRATIONAL SPECTROSCOPY, vol.48, pp.215-228, 2008 (SCI-Expanded)
- XVI. **A theoretical vibrational spectroscopic investigation on free Ethyl 2- and 3-aminobenzoate molecules**
Balci K., Akyüz S.
Journal of Molecular Structure, pp.525-539, 2007 (SCI-Expanded)
- XVII. **Structure elucidation of a new rearranged abietane diterpene from a biologically active plant, Salvia eriophora**
Topçu G., Kolak U., Balci K., Ulubelen A.
NATURAL PRODUCT COMMUNICATIONS, vol.2, pp.981-986, 2007 (SCI-Expanded)
- XVIII. **A comparative vibrational spectroscopic investigation of free mn-12S(2)O(2) and fn-12S(2)O(2) dithiacrown ethers based on DFT calculations**
Balci K., Koch A., Klempeter E.
JOURNAL OF MOLECULAR STRUCTURE, vol.787, pp.191-202, 2006 (SCI-Expanded)
- XIX. **A theoretical vibrational spectroscopic study with density functional theory and force field refinement calculation methods on free 4-aminopyrimidine molecule**
Balci K., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.909-919, 2005 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **ANALYSIS OF THE STRUCTURAL AND VIBRATIONAL SPECTRAL DATA OF ANTICANCER DRUG FLUTAMIDE ON THE BASIS OF THE DFT AND HARTREE-FOCK CALCULATIONS**
Arman C., Balci K., Akkaya Y., Akyüz S.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.65
- II. **The effects of intermolecular interactions on the vibrational spectra of flutamide molecule: a study based on the experimental matrix FT-IR, FT-Raman, Dispersive Micro-Raman measurements and DFT calculations**
Balci K., Arman C., Akkaya Y., Akyüz S., Collier W. B., Reaves-Mckee T. R., Frankamp A. H., Coates J. T., Ritzhaupt G.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, no.24, pp.459
- III. **A theoretical and experimental investigation on the effects of metal-ligand coordination on the structure and vibrational spectra of 4-aminopyrimidine molecule**
AKKAYA Y., BALCI K., AKYÜZ S.
'Türk Fizik Derneği 34.Uluslararası Fizik Kongresi', Muğla, Turkey, 4 - 10 September 2018, pp.57
- IV. **CALCULATIONS ON THE TOTALY SYMMETRIC BOND STRETCHING VIBRATIONS OF METHANE AND SOME POLYETHYLENE MOLECULES**
ŞEN T. M., AKKAYA Y., BALCI K., GÖREN Y.
Türk Fizik Derneği, 34. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 10 September 2018, pp.59
- V. **The Effects Of Polymerization On The Structure And Molecular Vibrations Of Phenazopyridine**
Goren Y., Akkaya Y., Balci K., Akyüz S.
'Türk Fizik Derneği 34.Uluslararası Fizik Kongresi', Muğla, Turkey, 4 - 10 September 2018, pp.58
- VI. **A Density Functional Theory based study of the solvent effects on the experimental vibrational spectra of 4-aminopyrimidine**
Akkaya Y., Balci K., Akyüz S.
Türk Fizik Derneği, 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, pp.87
- VII. **A vibrational spectroscopy study on the chemotherapy drug flutamide by DFT calculations**
Arman C., Balci K., Akkaya Y., Akyüz S., Collier W. B.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, no.6, pp.536
- VIII. **Determination of the electron-electron correlation on the structural and vibrational spectral data**

calculated for the cyclic oxazine molecules

Aslınas S., Akkaya Y., Balci K.

Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, no.3, pp.70

- IX. **A molecular modeling study on the structure and vibrational properties of the chemotherapy drug letrozole**
Balci K., Akkaya Y., Akyüz S., Collier W. B., Stover D. D., Ritzhaupt G., Stricker M. C.
Türk Fizik Derneği, 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, no.4, pp.535
- X. **An investigation on the dependencies of the structural and vibrational spectral properties of the aromatic azine molecules to the number of nitrogen atoms and their positions in the ring by using the Hartree-Fock and MP2 calculation methods**
Araci Ö., Balci K., Akkaya Y.
Turkish Physical Society 33rd International Physics Congress, Bodrum, Muğla, Turkey, 6 - 10 September 2017, no.8, pp.537
- XI. **An Experimental and Theoretical Vibrational Spectroscopic Study on Zn(II) Halide Complexes of 4-Aminopyrimidine**
Akkaya Y., Balci K., Akyüz S.
7th Cambridge Symposium on Nucleic Acids Chemistry and Biology, London, United Kingdom, 3 - 07 September 2017, no.3, pp.70
- XII. **An investigation on the vibrational properties of neutral balenine by Matrix IR spectroscopy and DFT based calculations**
Akkaya Y., Balci K., Akyüz S.
33rd European Congress on Molecular Spectroscopy (EUCMOS 2016), Szeged, Hungary, 30 July - 04 August 2016, no.1, pp.93
- XIII. **A theoretical and experimental vibrational spectroscopic study on N tau-methyl histidine and its water complexes**
Akkaya Y., Balci K., Gören Y., Akyüz S.
9th INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION-BPU9, İstanbul, Turkey, 24 - 27 August 2015, no.6, pp.334
- XIV. **AN INTERPRETATION OF THE IR AND RAMAN SPECTRA OF LOMUSTINE MOLECULE BY DFT CALCULATIONS**
Balci K., Akkaya Y., Akyuz S., Collier W. B.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, no.17, pp.343
- XV. **THE ELUCIDATION OF THE STRUCTURE AND VIBRATIONAL PROPERTIES OF 4-HYDROXYCYCLOHEXANONE BY DFT CALCULATIONS, IR AND RAMAN SPECTROSCOPIC MEASUREMENTS**
Balci K., Akkaya Y., Akyüz S., Koch A., Klempeter E.
TURKISH PHYSICAL SOCIETY 31 ST INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 21 - 24 July 2014, no.10, pp.273
- XVI. **A VIBRATIONAL SPECTROSCOPIC INVESTIGATION ON METOLAZONE**
Akkaya Y., Balci K., Şale Y., Akyuz S.
TURKISH PHYSICAL SOCIETY 31 ST INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 21 - 24 June 2014, no.2, pp.265
- XVII. **Tautomeric Preference And Conformational Analysis Of Triamterene**
Gören Y., Akkaya Y., Balci K., Akyüz S.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, no.34, pp.345
- XVIII. **A CONFORMATIONAL AND VIBRATIONAL SPECTROSCOPIC INVESTIGATION ON ANTICANCER DRUG NOCODAZOLE**
Arslançan G., Balci K.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, no.8,

pp.317

- XIX. The Effects Of Hydrogen Bonding On The Structure And Vibrational Properties Of Difluoromethylornithine**
Balci K., Akkaya Y., Akyüz S., Unsal N. P.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, pp.323
- XX. Experimental and theoretical vibrational spectroscopic investigation of anserine and balenine dipeptides**
Akkaya Y., Balci K., Gören Y., Akyüz S.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, no.12, pp.312
- XXI. An investigation on the structural and vibrational spectroscopic data of some biological active dipeptides**
Akkaya Y., Balci K., Gören Y., Akyüz S.
SPEC 2012 - Shedding New Light on Disease, Chiang-Mai, Thailand, 11 - 16 November 2012, no.1, pp.1
- XXII. An Investigation On The Structure And Vibrational Properties Of Difluoromethylornithine By Dft Calculations, Ir And Raman Spectroscopic Measurements**
Balci K., Akkaya Y., Akyüz S.
Turkish Physical Society 29th International Physics Congress, Muğla, Turkey, 5 - 09 September 2012, no.13, pp.366
- XXIII. A Vibrational Spectroscopic Study On Dansyl Fluoride Molecule By Ir And Raman Spectroscopic Measurements And Dft Calculations**
Balci K., Akkaya Y., Akyüz S.
31st European Congress on Molecular Spectroscopy (EUCMOS 2012), Cluj-Napoca, Romania, 26 - 31 August 2012, no.5, pp.162
- XXIV. An investigation on the conformational structure and vibrational motions of Sulindac molecule by IR and Raman spectroscopic measurements and DFT-based quantum mechanical calculations**
Akbaý A., Balci K.
31st European Congress on Molecular Spectroscopy (EUCMOS 2012), Cluj-Napoca, Romania, 26 - 31 August 2012, no.2, pp.159
- XXV. A Vibrational Spectroscopic Investigation On Ibuprofen And Its Solutions**
Akbaý A., Balci K., Akkaya Y., Akyüz S.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.410
- XXVI. Conformational and vibrational spectroscopic analysis of 3- and 4-Aminophenylacetic acid molecules**
Akkaya Y., Balci K., Gören Y., Akyüz S.
28 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, no.4, pp.412
- XXVII. A Conformational And Vibrational Spectroscopic Study On The Non-Steroidal Anti-Inflammatory Drug Piroxicam**
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- XXVIII. Conformational Analysis And Ab-Initio, Dft Studies Of Phenazopyridine Molecule**
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- XXIX. Vibrational spectroscopic analysis of L-anserine dipeptide**
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- XXX. A Theoretical And Experimental Vibrational Spectroscopic Study On Valine-Tyrosine And Its Water Complexes**
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- XXXI. The Effects Of Dimerization On The Structure And Vibrational Spectral Data Of Ibuprofen Molecule, A**

Non-Steroidal Anti-Inflammatory Drug

Balcı K., Akbay A., Akkaya Y., Akyüz S.

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- XXXII. **Studies on Valine-Tyrosine, antihypertensive dipeptide in Aqueous Solution by Raman Spectroscopy**
Akkaya Y., Balcı K., Akyüz S.
EUCMOS 2010, 30th European Congress of Molecular Spectroscopy, Florence, Italy, 29 August - 03 September 2010, no.51, pp.137
- XXXIII. **An Ir And Raman Spectroscopic Investigation On Alpha-Difluoromethyl-Ornithine (Dfmo), A Potential Target As Chemotherapeutic Acent**
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- XXXIV. **Micro Raman spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**
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Balcı K., Akkaya Y., Başar G., Akyüz S.
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- XXXVII. **Molecular Structure and Vibrational Characteristics of Phenazopyridine molecule: The IR, Raman and DFT studies**
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- XXXVIII. **QUANTUM CHEMICAL CALCULATIONS AND VIBRATIONAL SPECTRAL INVESTIGATION OF ROSCOVITINE, A POTENTIAL DRUG TO TREAT CANCERS**
Balcı K., Akkaya Y., Akyuz S., Palavan-Unsal N.
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- XXXIX. **IR and Raman and Density Functional Theory Studies on a Non-Steroidal Anti-Inflammatory Drug, Naproxen**
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- XL. **A Theoretical Conformational Analysis And Vibrational Spectroscopic Investigation On Niflumic Acid**
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- XLI. **A theoretical IR and Raman Spectroscopic Study on 1,2-Bis(o-carboxyphenoxy) etane molecule**
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- XLV. MN-12S2O2 ve FN-12S2O2 Maleonitrile Dithia-Crown Ether Moleküler Yapıları Üzerine Yoğunluk Fonksiyonu Teorisine Dayalı Bir Titreşimsel Spektroskopik İnceleme**
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Balci K., Akyuz S.
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- XLVIII. Calculation and Analysis of the IR Spectra of 3-Methylpyridine and Transition Metal(II) 3-Methylpyridine Complexes**
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- XLIX. IR Spectral Simulations of Methyl Derivatives of Pyridine**
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AKKAYA Y., RİTZHAUPT G., BALCI K., RAND A., COLLIER W. B., AKYÜZ S., WHITE H. J., Project Supported by Higher Education Institutions, An investigation on the vibrational properties of neutral balenine by Matrix IR spectroscopy and DFT based calculations, 2016 - 2017

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BALCI K., Project Supported by Higher Education Institutions, Cyclooxygenase, Protease ve Cholinesterase Sınıfı Bazı Enzim İnhibitörlerin Elektronik Yapı Özelliklerinin ve Titreşimsel Spektrumlarının Analizi, 2014 - 2016

BALCI K., Project Supported by Higher Education Institutions, The effects of conformation and intermolecular hydrogen bonding on the structural and vibrational spectral data of naproxen molecule, 2014 - 2016

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BALCI K., Project Supported by Higher Education Institutions, DFT and MP2 based quantummechanical calculations and a theoretical vibrational spectroscopic investigation on roscovitine, a potential drug to treat cancers, 2013 - 2014

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BALCI K., Project Supported by Higher Education Institutions, A VIBRATIONAL SPECTROSCOPIC STUDY ON DANSYL FLUORIDE MOLECULE BY IR AND RAMAN SPECTROSCOPIC MEASUREMENTS AND DFT CALCULATIONS, 2012 - 2012

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Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği (Turkish Physical Society), Member, 2011 - Continues

Scientific Refereeing

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, April 2024

VIBRATIONAL SPECTROSCOPY, SCI Journal, April 2024

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Tasks In Event Organizations

Balcı K., The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Scientific Congress, İstanbul, Turkey, Nisan 2007
 Balcı K., XXVIII European Congress on Molecular Spectroscopy (EUCMOS 2006), Scientific Congress, İstanbul, Turkey, Eylül 2006
 Balcı K., International Symposium on Lasers, Atomic and Molecular Physics, Scientific Congress, İstanbul, Turkey, Eylül 1997

Metrics

Publication: 69

Citation (WoS): 144

Citation (Scopus): 142

H-Index (WoS): 6

H-Index (Scopus): 6

Congress and Symposium Activities

Turkish Physical Society 34th International Physics Congress, Attendee, Muğla, Turkey, 2018

Turkish Physical Society 33rd International Physics Congress, Attendee, Muğla, Turkey, 2017

9TH INTERNATIONAL PHYSICS CONGRESS OF THE BALKAN PHYSICAL UNION - BPU9, Attendee, İstanbul, Turkey, 2015

9th International Physics Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2015

TURKISH PHYSICAL SOCIETY 31 ST INTERNATIONAL PHYSICS CONGRESS, Attendee, Muğla, Turkey, 2014

Turkish Physical Society 30th International Physics Congress, Attendee, İstanbul, Turkey, 2013

Turkish Physical Society 29th International Physics Congress, Attendee, Bodrum, Muğla, Turkey, 2012

31st European Congress on Molecular Spectroscopy (EUCMOS 2012), Attendee, Cluj-Napoca, Romania, 2012

Turkish Physical Society 28th International Physics Congress, Attendee, Bodrum, Muğla, Turkey, 2011

Colloquium Spectroscopicum Internationale XXXVII, Attendee, Buzios, Rio de Janeiro, Brazil, 2011

30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Attendee, Florence, Italy, 2010

5th International Conference on Advanced Vibrational Spectroscopy, Attendee, Melbourne, Australia, 2009

XXIX European Congress on Molecular Spectroscopy (EUCMOS 2008), Attendee, Opatia, Croatia, 2008

XXVIII European Congress on Molecular Spectroscopy (EUCMOS 2006), Attendee, İstanbul, Turkey, 2006

IX. Ulusal Sıvihal Fiziği Sempozyumu, Attendee, İstanbul, Turkey, 2005

ATOM-MOLEKÜL VE ÇEKİRDEK SİSTEMLERİNİN YAPILARI VE SPEKTRUMLARI, ÇANAKKALE, Attendee, ÇANAKKALE, Turkey, 2005

XXVII European Congress on Molecular Spectroscopy (EUCMOS 2004), Attendee, Krakow, Turkey, 2004

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7th Austrian Hungarian international conference on vibrational spectroscopy, Attendee, Balatonfüred, Hungary, 1999

International Symposium on Lasers, Atomic and Molecular Physics (LAMP 97), Attendee, İstanbul, Turkey, 1997

Scholarships

Araştırma Bursu, Official Institutions of Foreign Countries, 2004 - 2004

Non Academic Experience

BİL ÖĞRETİM MERKEZİ