

Prof. Elif AKALIN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAD-2783-2020

ScopusID: 35344447500

Yoksis Researcher ID: 46357

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Turkey 1998 - 2002

Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Fizik, Turkey 1996 - 1998

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Physics, Turkey 1989 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Serbest ve Kompleks Yapıdaki Diaminobenzen Moleküllerinin Teorik ve Deneysel Kırmızıaltı Spektroskopisi ile İncelenmesi, Istanbul University, Faculty of Science, Fizik, 2002

Postgraduate, Anilin ve Dötere-Anilin Moleküllerinin Titreşim Frekans ve Kiplerinin Hesaplanması, Istanbul University, Faculty of Science, Fizik, 1998

Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2014 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2010 - 2014

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2003 - 2010

Academic and Administrative Experience

Rectorate Commissioner, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - Continues
Chairperson of Unit Strategic Planning Commission, Istanbul University, Faculty Of Science, Department Of Physics, 2024 - 2028
Member of University Strategic Planning Commission, Istanbul University, Faculty Of Science, Department Of Physics, 2024 - 2028
Faculty Management Board Member, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - 2026
Vice Dean, Istanbul University, Faculty Of Science, Department Of Physics, 2020 - 2026
Faculty FEDEK Representative, Istanbul University, Faculty Of Science, Department Of Physics, 2018 - 2026
BAP Subcommittee Member, Istanbul University, Faculty Of Science, Department Of Physics, 2018 - 2024
Chairperson of Unit Strategic Planning Commission, Istanbul University, Faculty Of Science, Department Of Physics, 2019 - 2023
Member of University Strategic Planning Commission, Istanbul University, Faculty Of Science, Department Of Physics, 2019 - 2023
Vice Dean, Istanbul University, Faculty Of Science, Department Of Physics, 2016 - 2018
İstanbul Üniversitesi, Bap Yaklaşık Maliyet Komisyonu, 2013 - 2015
İstanbul Üniversitesi, Bap Yaklaşık Maliyet Komisyonu, 2012 - 2013
İstanbul Üniversitesi, Bap Yaklaşık Maliyet Komisyonu, 2011 - 2012
İstanbul Üniversitesi, Bap Yaklaşık Maliyet Komisyonu, 2010 - 2011

Courses

Molecular Physics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017
Physics II Electricity and Magnetism, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Atomic and Molecular Physics I, Undergraduate, 2023 - 2024, 2022 - 2023
Modern Kırmızıaltı ve Raman Spektroskopisi, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015
Physics I, Undergraduate, 2023 - 2024
Moleküler Simetri ve Grup Teori, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Kuantum Kimyası, Undergraduate, 2023 - 2024
Physics I Mechanics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Physics II, Undergraduate, 2021 - 2022, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016
İleri Fizik Uygulamaları I, Undergraduate, 2022 - 2023, 2020 - 2021
İleri Fizik Uygulamaları II, Undergraduate, 2020 - 2021, 2018 - 2019
Atom ve Molekül Fiziği Laboratuvar, Undergraduate, 2019 - 2020
Atom ve Molekül Fiziği, Undergraduate, 2019 - 2020
Reading and Translation in Science II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Physics I, Undergraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016
Reading and Translation in Science I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Physics II, Undergraduate, 2017 - 2018, 2016 - 2017
Titreşimler ve Akışkanlar Mekaniği, Undergraduate, 2018 - 2019
Physics I, Undergraduate, 2017 - 2018, 2016 - 2017
Physics II, Undergraduate, 2015 - 2016
Molecular Symmetry and Group Theory, Postgraduate, 2016 - 2017
Molekül Fiziği, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Spektral Analiz Yöntemleri, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Physics I, Associate Degree, 2015 - 2016
General Physics, Undergraduate, 2014 - 2015

General Physics, Undergraduate, 2014 - 2015

Moleküler Biyolojide Spektral Analiz, Postgraduate, 2013 - 2014

İleri Fizik Uygulamaları, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Fizik I, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010

Genel Fizik, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007

Molekül Fiziği I, Postgraduate, 2008 - 2009

Fizik IV, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006

Genel Fizik II, Undergraduate, 2004 - 2005

Genel Fizik I, Undergraduate, 2005 - 2006, 2004 - 2005

Genel Fizik I, Undergraduate, 2005 - 2006, 2004 - 2005

Genel Fizik II, Undergraduate, 2004 - 2005

Advising Theses

Akalin E., İlk Tunç Çağına Ait Bazı Seramiklerin Mineral İçeriklerinin Spektroskopik Yöntemler ile Belirlenmesi, Postgraduate, H.Selim(Student), Continues

Akalin E., Etiyonyamida Molekülünün Kuantum Mekaniksel Hesaplama Yöntemleri ve Kırmızıaltı ve Raman Spektroskopisi ile Titreşimsel Analizi, Postgraduate, M.Kalınca(Student), 2020

Akalin E., Milrinone Molekülünün ve Tautomerlerinin Deneysel ve Kuantum Kimyasal Hesaplama Yöntemleriyle Titreşim Kip ve Dalgasayılarının Analizi, Postgraduate, Ü.Kalınca(Student), 2019

AKALIN E., 4-Aminopirimidin Molekülünün ve Kararlı Dimerlerinin Yapısal ve Titreşimsel Analizi, Postgraduate, E.Öztürk(Student), 2014

AKALIN E., Fenilendiamin Moleküllerinin (PARA-, META- ve ORTO-) ve H₂O Komplekslerinin ab initio ve Yoğunluk Fonksiyon Teorisi ile Titreşimsel Analizi, Postgraduate, D.Bulanık(Student), 2010

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Istanbul University, March, 2023

Associate Professor Exam, Associate Professor Exam, Istanbul University, October, 2020

Associate Professor Exam, Associate Professor Exam, Istanbul University, March, 2020

Associate Professor Exam, Associate Professor Exam, Istanbul University, October, 2019

Associate Professor Exam, Associate Professor Exam, Istanbul University, March, 2019

Associate Professor Exam, Associate Professor Exam, Istanbul University, October, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversiteler Arası Kurul, August, 2017

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversiteler Arası Kurul, December, 2015

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversiteler Arası Kurul, June, 2015

Doctoral Examination, Doktora Yeterlilik Jürisi, İstanbul Üniversitesi, January, 2013

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, December, 2012

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, December, 2012

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, September, 2012

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, January, 2012

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, June, 2010

Post Graduate, Tez Savunma Jürisi, İstanbul Kültür Üniversitesi, June, 2010

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, June, 2010

Post Graduate, Tez Savunma Jürisi, İstanbul Üniversitesi, July, 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vibrational Spectroscopic and Molecular Docking Studies of Amrinone, a Cardiotonic Inotropic Drug**
Çelik S., Akyüz S., Özel A., Akalın E.
OPTICS AND SPECTROSCOPY, vol.130, no.2, pp.215-227, 2022 (SCI-Expanded)
- II. **Molecular Modeling, Dimer Calculations, Vibrational Spectra, and Molecular Docking Studies of 5-Chlorouracil**
Akalın E., Çelik S., Akyüz S.
JOURNAL OF APPLIED SPECTROSCOPY, vol.86, pp.975-985, 2020 (SCI-Expanded)
- III. **Raman and AFM studies on nominally undoped, p- and n-type GaAsBi alloys**
Erol A., Akalın E., Kara K., Aslan M., Bahrami-Yekta V., Lewis R. B., Tiedje T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.722, pp.339-343, 2017 (SCI-Expanded)
- IV. **Thermal annealing effects on optical and structural properties of GaBiAs epilayers: Origin of the thermal annealing-induced redshift in GaBiAs**
Donmez Ö., Kara K., Erol A., Akalın E., Makhloufi H., Arnoult A., Fontaine C.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.686, pp.976-981, 2016 (SCI-Expanded)
- V. **Investigation of Adsorption of 5-Fluorouracil and 5-Bromouracil onto Sepiolite and Loughlinite: An IR Spectroscopic Study**
Akyüz S., Akyuz T., Akalın E.
ASIAN JOURNAL OF CHEMISTRY, vol.26, pp.4875-4878, 2014 (SCI-Expanded)
- VI. **Bismuth-induced effects on optical, lattice vibrational, and structural properties of bulk GaAsBi alloys**
Sarcan F., Donmez Ö., Kara K., Erol A., Akalın E., Arıkan M. C., Makhloufi H., Arnoult A., Fontaine C.
NANOSCALE RESEARCH LETTERS, vol.9, 2014 (SCI-Expanded)
- VII. **Ab initio and Raman study of medium range ordering in GeSe₂ glass**
Holomb R., Mitsa V., Akalın E., Akyuz S., Sichka M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.373, pp.51-56, 2013 (SCI-Expanded)
- VIII. **New ring-like models and ab initio DFT study of the medium-range structures, energy and electronic properties of GeSe₂ glass**
Holomb R., Mitsa V., Akyuz S., Akalın E.
PHILOSOPHICAL MAGAZINE, vol.93, pp.2549-2562, 2013 (SCI-Expanded)
- IX. **Excitation energy-dependent nature of Raman scattering spectrum in GaInNAs/GaAs quantum well structures**
Erol A., Akalın E., Sarcan F., Donmez Ö., Akyuz S., Arıkan C. M., Puustinen J., Guina M.
NANOSCALE RESEARCH LETTERS, vol.7, 2012 (SCI-Expanded)
- X. **Experimental and theoretical vibrational spectroscopic investigation of Zn(II) halide complexes of 3-aminopyridine and 3-chloropyridine**
Akalın E., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.390-396, 2011 (SCI-Expanded)
- XI. **FT-IR and Raman spectroscopic and DFT theoretical investigations on Zn(II) halide complexes of 2-aminopyrimidine**
Akalın E., Akyuz S.
VIBRATIONAL SPECTROSCOPY, vol.53, pp.140-145, 2010 (SCI-Expanded)
- XII. **Interaction of Isoniazid with Al(OH)(3): A DFT Study**
Akalın E., Akyuz S., Akyuz T.
ASIAN JOURNAL OF CHEMISTRY, vol.22, pp.4111-4116, 2010 (SCI-Expanded)
- XIII. **Adsorption of isoniazid onto sepiolite-palygorskite group of clays: An IR study**
Akyuz S., Akyuz T., Akalın E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.75, pp.1304-1307, 2010 (SCI-Expanded)
- XIV. **Vibrational study on Zn(Pyrimidine)(2)Cl₂, Pyrimidine-Al(OH)(3) and Pyrimidine-(Al(OH)(3))(2) complexes**
Akalın E., Akyuz S.

- VIBRATIONAL SPECTROSCOPY, vol.48, pp.233-237, 2008 (SCI-Expanded)
- XV. **Vibrational structure of free and hydrogen bonded complexes of isoniazid: FT-IR, FT-Raman and DFT study**
Akalin E., Akyüz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.492-497, 2007 (SCI-Expanded)
- XVI. **Adsorption and interaction of 5-fluorouracil with montmorillonite and saponite by FT-IR spectroscopy**
Akalin E., Akyüz S., Akyüz T.
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.477-481, 2007 (SCI-Expanded)
- XVII. **Infrared and Raman spectroscopic study of 4-aminopyrimidine tetracyanonickelate complexes**
Akyüz S., Akyüz T., Akkaya Y., Akalin E.
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.403-407, 2007 (SCI-Expanded)
- XVIII. **Vibrational analysis of free and hydrogen bonded complexes of nicotinamide and picolinamide**
Akalin E., Akyüz S.
VIBRATIONAL SPECTROSCOPY, vol.42, pp.333-340, 2006 (SCI-Expanded)
- XIX. **Vibrational analysis of isonicotinamide**
Akalin E., Yilmaz A., Akyüz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.881-886, 2005 (SCI-Expanded)
- XX. **Structure and vibrational spectra of benzidine**
Akalin E., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.651, pp.571-577, 2003 (SCI-Expanded)
- XXI. **Experimental and theoretical study of the vibrational spectra of paraphenylenediamine transition metal (II) complexes**
Akalin E., Akyüz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.563, pp.579-586, 2001 (SCI-Expanded)
- XXII. **Theoretical study of IR spectra of paraphenylenediamine**
Akalin E., AKYUZ S.
VIBRATIONAL SPECTROSCOPY, vol.22, pp.3-10, 2000 (SCI-Expanded)
- XXIII. **Calculation and analysis of IR spectrum of 2-aminopyridine**
Buyukmurat Y., Akalin E., Ozel A., Akyüz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.579-584, 1999 (SCI-Expanded)
- XXIV. **Force field and IR intensity calculations of aniline and transition metal(II) aniline complexes**
Akalin E., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.175-181, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **SPECTROSCOPIC STUDIES OF MEDIUM RANGE ORDERING IN g-GeSe 2 : THEORY AND EXPERIMENT**
Holomb R., Mitsa V., Akalin E., Akyüz S., Sichka M.
Uzhhorod University Scientific Herald. Series Physics, no.32, pp.18-23, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Structure and Vibrational Analysis of 5-Chlorouracil and its Dimers**
AKALIN E., ÇELİK S., AKYÜZ S.
2nd International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Kiev, Ukraine, 7 - 10 September 2018, pp.1
- II. **Anharmonic DFT study of the vibrational wavenumbers of 5Chlorouracil**
AKALIN E., AKYÜZ S.

The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, Helsinki, Finland, 20 - 25 August 2017, pp.45

- III. **IDENTIFICATION OF GAS BUBBLES IN GLASS PRODUCTS BY MICRO RAMAN SPECTROSCOPY**
Yurdatapan H., ÖZEL A., AKALIN E., Oran M., Ökten A.
Balkan Fizik Birliği 9. Uluslararası Fizik Konferansı, İstanbul, Turkey, 24 - 27 August 2015, pp.5
- IV. **An investigation of Bismuth-related effects on GaAsBi/GaAs epilayers**
AKALIN E., EROL A., Arıkan Ç. M., KARA K., Aslan M., Lewis R., Tiedje T.
5th International Workshop on Bismuth Containing Semiconductors, Cork, Ireland, 21 - 23 July 2014, pp.1
- V. **Investigation of GaBiAs Alloy Using Raman spectroscopy**
AKALIN E., EROL A., SARCAN F., ARIKAN M. Ç., Fontaine C.
Novel Gain Materials And Devices Based On III-V-N/Bi Compounds, İstanbul, Turkey, 24 - 26 September 2013, pp.47
- VI. **SPECTROSCOPIC STUDIES g-GeSe₂ -MATERIAL FOR TELECOMMUNICATION: THEORY AND EXPERIMENT**
Holomb R., Mitsa O., Akalın E., Akyüz S.
Genç bilim adamlarının ilk uluslararası bilimsel ve pratik konferansının materyalleri "21. yüzyılda Ukrayna'nın yenilikçi bir kalkınma yolu olarak bilgi teknolojileri", Uzhhorod, Ukraine, 04 March 2013, pp.41-44
- VII. **Theoretical conformational analysis and vibrational spectral investigations of an anticancer drug, anastrozole**
AKALIN E., Tommasini M., Akyüz S.
Shedding New Light on Disease (SPEC 2012), Thailand, 1 - 04 November 2012, pp.2
- VIII. **Structural and Vibrational Study on Amrinone Dimers and Amrinone-H₂O Complexes**
Atak B., Akalın E., Akyüz S., Çelik S.
31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Cluj-Napoca, Romania, 3 - 07 September 2012, pp.29
- IX. **USING INFRARED AND RAMAN SPECTROSCOPY TECHNIQUES IN ANALYSIS OF Ga_{1-x}In_xNyAs_{1-y} /GaAs QUANTUM WELL STRUCTURES**
AKALIN E., EROL A., Sarcan F., DÖNMEZ Ö., Arıkan Ç. M., Puustinnen J., Guina M.
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Turkey, 1 - 04 September 2012, pp.3
- X. **Characterization of as-grown and annealed modulation doped Ga_{1-x}In_xNyAs_{1-y} /GaAs quantum well structures using Infrared spectroscopy and Raman scattering techniques**
AKALIN E., EROL A., Akyüz S., Arıkan Ç. M., Puustinnen J., Guina M.
International Conference on Superlattices, Nanostructures, and Nanodevices (ICSNN 2012), Germany, 1 - 04 July 2012, pp.348
- XI. **Vibrational Analysis of Hydrogen Bonded Complexes of Phenylenediamine Molecules**
AKALIN E., Bulank D., Akyüz S.
Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, Turkey, 1 - 04 September 2011, pp.409
- XII. **Investigation of adsorption of 5-flouro and 5-bromo uracils onto sepiolite and loughlinitite: An IR spectroscopic study**
AKALIN E., Akyüz S.
Colloquium Spectroscopicum Internationale XXXVII, Rio De Janeiro, Brazil, 28 August - 02 September 2011
- XIII. **Spectroscopic (FTIR and Raman) analysis and vibrational study on amrinone using DFT (B3LYP) calculations**
Atak B., Akalın E., Akyüz S., Çelik S.
Colloquium Spectroscopicum Internationale XXXVII, Rio-De-Janeiro, Brazil, 28 August - 02 September 2011, pp.40
- XIV. **Experimental and Theoretical Vibrational Spectroscopic Investigation of Zn(II) Halide Complexes of Pyridine Derivatives**
AKALIN E., Akyüz S.
30th European Congress on Molecular Spectroscopy, Italy, 1 - 04 August 2010, pp.213
- XV. **FT-IR and Raman Spectroscopic and DFT Theoretical Investigations on Zn(II) Halide Complexes of 2-Aminopyrimidine**

- AKALIN E., Akyüz S.
Vth International Conference on Advanced Vibrational Spectroscopy, Australia, 1 - 04 July 2009, pp.146
- XVI. **Adsorption of Isoniazid onto Sepiolite-Palygorskite Group of Clays: An IR and DFT Study**
AKALIN E., Akyüz S., Akyüz T.
XXIX European Congress on Molecular Spectroscopy, Croatia, 1 - 04 August 2008, pp.330
- XVII. **Vibrational Study on Zinc Halide Pyrimidine Complexes: FT-IR and DFT Calculations**
AKALIN E., Akyüz S.
IVth international Conference on Advanced Vibrational Spectroscopy, Greece, 1 - 04 June 2007, pp.265
- XVIII. **Infrared And Raman Spectroscopic Study Of 4-Aminopyrimidine Tetracyanonickelate Complexes**
Akyüz S., Akyüz T., AKKAYA Y., AKALIN E.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.204
- XIX. **Vibrational Structure of Free and Hydrogen Bonded Complexes of Isoniazid: FT-IR, FT-Raman and DFT Calculations**
AKALIN E., Akyüz S.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.251
- XX. **Theoretical Studies of Molecular and Vibrational Spectra of free and Hydrogen Bonded Complexes of Sulfanilamide**
Öğrünç Ildız G., Akalın E., Özel A., Akyüz S.
XXVIII European Congress on Molecular Spectroscopy, İstanbul, Turkey, 1 - 04 September 2006, pp.1
- XXI. **Temperature Dependent Vibrational Spectroscopic Study of Montmorillonite From the Republic of Macedonia: I. Interaction of 2-Aminopyrimidine with Montmorillonite**
Akyüz S., Minceva Sukarova B., Andreeva L., Najdoski M., AKALIN E.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.239
- XXII. **FT-IR and Raman Spectroscopic Study of 4-aminopyrimidine Tetracyanonickelate Complexes**
Akyüz S., Akyüz T., Büyükmurat (Akkaya) Y., AKALIN E.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.204
- XXIII. **Adsorption and interaction of 5-fluorouracil with montmorillonite and saponite by FT-IR spectroscopy**
AKALIN E., Akyüz S., Akyüz T.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.234
- XXIV. **Vibrational Analysis of Free and Hydrogen Bonded Complexes of Nicotinamide and Picolinamide**
AKALIN E., Akyüz S.
IIIrd International Conference on Advanced Vibrational Spectroscopy, United States Of America, 1 - 04 August 2005, pp.279
- XXV. **Vibrational Analysis of Isonicotinamide**
AKALIN E., YILMAZ A., Akyüz S.
XXVIIth European Congress on Molecular Spectroscopy, Poland, 1 - 04 September 2004, pp.360
- XXVI. **Structure and Vibrational Spectra of Benzidine**
AKALIN E., Akyüz S.
XXVIth European Congress on Molecular Spectroscopy, France, 1 - 04 September 2002, pp.286
- XXVII. **FT-IR Spectroscopic Studies on Phenylenediamine Cadmium (II) Tetracyanometallate Clathrate Hosts**
Akyüz S., AKALIN E., Andreeva L., Minceva Sukarova B.
VIIIth International Seminar on Inclusion Compounds (ISIC-8), Poland, 1 - 04 September 2001, pp.0-1
- XXVIII. **Vibrational Spectra of Free and Coordinated Aromatic Amines**
AKALIN E., Akyüz S.
International School of Crystallography: Strength From Weakness, Italy, 1 - 04 May 2001, pp.319
- XXIX. **Experimental and Theoretical Study of the Vibrational Spectra of Paraphenylenediamine Transition Metal(II) Complexes**
AKALIN E., Akyüz S.
XXV European Congress on Molecular Spectroscopy, Portugal, 1 - 04 August 2000
- XXX. **Calculation And Analysis Of Ir Spectrum Of 2-Aminopyridine**

- AKKAYA Y., AKALIN E., ÖZEL A., Akyüz S.
XXIV European Congress on Molecular Spectroscopy, Czech Republic, 1 - 04 August 1998, pp.69
- XXXI. **Calculation and Analysis of IR Spectra of 2-Aminopyridine**
AKKAYA Y., AKALIN E., ÖZEL A., AKYÜZ S.
XXIV European Congress on Molecular Spectroscopy, Czech Republic, 1 - 04 August 1998, pp.69
- XXXII. **Force Field and IR Intensity Calculations of Aniline and Transition Metal(II) Aniline Complexes**
AKALIN E., Akyüz S.
XXIV European Congress on Molecular Spectroscopy, Czech Republic, 1 - 04 August 1998
- XXXIII. **Normal Coordinate Analysis of Aniline**
Akalin E., Balcı K., Akyüz S.
International Symposium on Lasers, Atomic and Molecular Physics, İstanbul, Turkey, 16 - 20 September 1997,
no.36, pp.36

Supported Projects

- Dardeniz Arıkan G., Akalin E., Kecel Gündüz S., Project Supported by Higher Education Institutions, Technological Reflections of Socio-Political Structuring in the Early Bronze Age, 2023 - 2026
- Akalin E., Kanat Öztürk İ., Şahin T., TUBITAK Project, Seçilmiş Nadir Toprak Elementlerinin Geçiş Olasılıklarının Hesabı: Metalce Fakir Yıldız Tayflarında Sınanması, 2022 - 2023
- EROL A., PERÇİN ÖZKORUCUKLU S., KURUOĞLU F., AKALIN E., CEVHER E., AK T., ULUTAŞ H. K., GÜL A., SIRMA EKMEKÇİ S., DÖNMEZ Ö., et al., Project Supported by Higher Education Institutions, İstanbul Üniversitesi Araştırma Laboratuvarları Sürekliliği Araştırma Desteği, 2018 - 2021
- AKALIN E., AKYÜZ S., Project Supported by Higher Education Institutions, Anharmonic DFT study of the vibrational wavenumbers of 5Chlorouracil, 2017 - 2019
- SARCAN F., KURUOĞLU F., ÇOKDUYGULULAR E., ÇETİNKAYA Ç., DÖNMEZ Ö., NUTKU F., KARA K., AKALIN E., Project Supported by Higher Education Institutions, Characterization of temperature dependent operation of a GaInNAsbased RCEPD designed for 1.3 um, 2018 - 2018
- EROL A., KARA K., SARCAN F., DÖNMEZ Ö., NUTKU F., YILDIRIM S., MUTLU S., KURUOĞLU F., AKALIN E., Project Supported by Higher Education Institutions, GaInNAs ve GaAsBi yarıiletkenleri ve bunlara dayalı geliştirilen aygıtların karakterizasyonu, 2017 - 2018
- KINACI B., EROL A., DÖNMEZ Ö., AKALIN E., Project Supported by Higher Education Institutions, Yeni nesil çok eklemlı güneş hücrelerinin tasarım ve karakterizasyonu, 2015 - 2018
- EROL A., SARCAN F., ULUTAŞ D., AKALIN E., BALKAN N., Project Supported by Higher Education Institutions, Optik haberleşme için dikey kaviteli p-i-n dedektör, 2015 - 2018
- GEZER M., TAŞ F., SAYLAN S., AKALIN E., ÖZEL A., Project Supported by Higher Education Institutions, Ulusal Kırmızı Altı ve Raman Spektroskopi Veritabanı ve Ulusal Yazılımı Geliştirilmesi, 2014 - 2018
- Akalin E., Kara Koç K., Erol A., Dönmez Ö., Project Supported by Higher Education Institutions, Yarıkararlı örgü uyumsuz alaşımlara ısı işlem etkisinin spektroskopik yöntemlerle belirlenmesi, 2017 - 2017
- DÖNMEZ Ö., KARA K., EROL A., AKALIN E., Project Supported by Higher Education Institutions, Yarıkararlı örgü uyumsuz alaşımlara ısı işlem etkisinin spektroskopik yöntemlerle belirlenmesi, 2016 - 2017
- DÖNMEZ Ö., EROL A., YILDIRIM S., AKALIN E., SARCAN F., NUTKU F., KARA K., KINACI B., Project Supported by Higher Education Institutions, Modülasyon katkılı GaBiAs kuantum kuyulu yapıların optik ve elektrik transport özelliklerinin incelenmesi, 2015 - 2017
- AKALIN E., Project Supported by Higher Education Institutions, Bazı Halojen-uracillerin Kil Yüzeylere Tutunmasının İncelenmesi, 2015 - 2016
- AKALIN E., Project Supported by Higher Education Institutions, Investigation of the vibrational properties of GaAsBi/GaAs epilayers by using Raman Spectroscopy, 2014 - 2016
- YILDIRIM S., DÖNMEZ Ö., EROL A., YAKUT Ş., SARCAN F., ULUTAŞ D., AKALIN E., Project Supported by Higher Education Institutions, Uyumsuz Yarıiletken Alaşımların Optoelektronik Davranışlarının İncelenmesi, 2014 - 2016
- AKALIN E., Project Supported by Other Private Institutions, Raman Spektroskopi Yöntemi ile Cam Ürünlerinde Habbe

Analizi, 2014 - 2015

AKALIN E., Project Supported by Higher Education Institutions, Using Raman spectroscopy to Investigate GaBiAs alloys, 2013 - 2014

AKALIN E., Project Supported by Higher Education Institutions, 4-Aminopirimidin Molekülünün ve Kararlı Dimerlerinin Yapısal ve Titreşimsel Analizi, 2013 - 2014

AKALIN E., DÖNMEZ Ö., KARA KOÇ K., KANAT ÖZTÜRK İ., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İLERİ LİTOGRAFIK YÖNTEMLER LABORATUVARLARI, 2013 - 2013

AKALIN E., Project Supported by Higher Education Institutions, FT-IR and Raman Spectroscopic and DFT Theoretical Investigations on Zn(II) Halide Complexes of 2-Aminopyrimidine, 2011 - 2013

Akalın E., Akyüz S., TÜBİTAK Project, Atmosfere Yollanan Gazları Kontrol Eden Girişim Filtrelerinin Geliştirilmesi için Yüksek Kıırma İndisli Nano Yapılı Amorf Tabaka Oluşumunun, DFT Hesaplamaları, IR ve Raman Spektroskopik İncelenmesi, 2010 - 2013

AKALIN E., Project Supported by Higher Education Institutions, KANSER TEDAVİSİNDE KULLANILAN BAZI MOLEKÜLLERİN DENEYSEL VE TEORİK TİTREŞİM SPEKTRUMLARININ VE TEORİK KONFORMASYONLARININ ANALİZİ, 2009 - 2013

AKALIN E., Project Supported by Higher Education Institutions, Theoretical conformational analysis and vibrational spectral investigations of an anticancer drug, anastrozole, 2012 - 2012

AKALIN E., Project Supported by Higher Education Institutions, Investigation of adsorption of 5-flouro and 5-bromo uracils onto sepiolite and loughlinite: An IR spectroscopic study, 2011 - 2011

AKALIN E., Project Supported by Higher Education Institutions, Experimental and Theoretical Vibrational Spectroscopic Investigation of Zn(II) Halide Complexes of Pyridine Derivatives, 2010 - 2010

AKALIN E., Project Supported by Higher Education Institutions, Electronic and Vibrational Structure of Rubrene and Tetracene, 2008 - 2010

AKKAYA Y., AKALIN E., Project Supported by Higher Education Institutions, Dopamine, protease, cholinesterase ve cyclooxygenase grubu bazı enzim inhibitörlerinin yapı-fonksiyon ilişkisinin teorik ve deneysel spektroskopik yöntemler ile incelenmesi, 2007 - 2010

AKALIN E., Project Supported by Higher Education Institutions, FT-IR and Raman Spectroscopic and DFT Theoretical Investigations on Zn(II) Halide Complexes of 2-Aminopyrimidine, 2009 - 2009

AKALIN E., Project Supported by Higher Education Institutions, Vibrational spectroscopic study of two dimensional polymer compounds of pyrazinamide, 2007 - 2009

AKALIN E., Project Supported by Higher Education Institutions, Nötron aktivasyon analizi ile tarihi sikkelerin incelenmesi, 2007 - 2009

AKALIN E., Project Supported by Higher Education Institutions, Vibrational analysis of free and hydrogen bonded complexes of nicotinamide and picolinamide, 2007 - 2009

AKALIN E., Project Supported by Higher Education Institutions, Adsorption of Isoniazid onto Sepiolite-Palygorsgite Group of Clays: An IR and DFT Study, 2008 - 2008

Activities in Scientific Journals

Physics and Astronomy Reports, Editor, 2023 - Continues

Journal of Spectroscopy and Dynamics, Editor, 2010 - 2013

Scientific Refereeing

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, January 2022

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2020

Spectrochimica Acta A, SCI Journal, March 2013

Spectrochimica Acta A, SCI Journal, January 2013

Spectrochimica Acta A, SCI Journal, December 2011

Balkan Physics Letters, Other journals, November 2011
Journal of Molecular Structure, SCI Journal, July 2011
Spectrochimica Acta A, SCI Journal, June 2011
Balkan Physics Letters, Other journals, February 2011

Tasks In Event Organizations

Akalm E., EUCMOS 2006, Scientific Congress, İstanbul, Turkey, Eylül 2006

Metrics

Publication: 58
Citation (WoS): 456
Citation (Scopus): 470
H-Index (WoS): 14
H-Index (Scopus): 14

Congress and Symposium Activities

5th International Workshop on Bismuth-Containing Semiconductors
The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, Attendee, Helsinki, Finland, 2017
5th International Workshop on Bismuth-Containing Semiconductors, Attendee, Cork, Ireland, 2014
Spec 2012 - Shedding New Light on Disease, Attendee, Thailand, 2012
Türk Fizik Derneği, 29. Uluslararası Fizik Kongresi, Attendee, Turkey, 2012
International Conference on Superlattices, Nanostructures and Nanodevices (ICSNN2012), Attendee, Germany, 2012
Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, Attendee, Turkey, 2011
Colloquium Spectroscopicum Internationale XXXVII, Attendee, Brazil, 2011
30th European Congress on Molecular Spectroscopy, Attendee, Italy, 2010
Vth International Conference on Advanced Vibrational Spectroscopy (ICAVS-5), Attendee, Australia, 2009
XXIX European Congress on Molecular Spectroscopy, Attendee, Turkey, 2008
IVth international Conference on Advanced Vibrational Spectroscopy (ICAVS-4), Attendee, Greece, 2007
XXVIII European Congress on Molecular Spectroscopy, Attendee, Turkey, 2006
IIIrd International Conference on Advanced Vibrational Spectroscopy (ICAVS-3), Attendee, United States Of America, 2005
XXVIIth European Congress on Molecular Spectroscopy, Attendee, Poland, 2004
XXVIth European Congress on Molecular Spectroscopy, Attendee, France, 2002
VIIIth International Seminar on Inclusion Compounds (ISIC-8), Attendee, Poland, 2001
International School of Crystallography: Strength From Weakness, Attendee, Erice, Italy, 2001
XXV European Congress on Molecular Spectroscopy, Attendee, Coimbra, Portugal, 2000
XXIV European Congress on Molecular Spectroscopy, Attendee, Prag, Czech Republic, 1998
International Symposium on Lasers, Atomic and Molecular Physics, Attendee, İstanbul, Turkey, 1997

Awards

AKALIN E., Prof. Dr. Nazım Terzioğlu Ödülü, İstanbul Üniversitesi, April 2007

Non Academic Experience

MİLLİ EĞİTİM BAKANLIĞI