Prof. Yasemin AKKAYA

Personal Information

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Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Turkey 1994 - 2000
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 1990 - 1994
Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1983 - 1989

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, 2, 3, VE 4-AMİNOPRİDİN MOLEKÜLLERİNİN TİTREŞİM FREKANSLARININ HESABI, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, 2000
Postgraduate, DEMİR ALAŞIMLARINDA MARTENSİTE DÖNÜŞÜMLERİ İÇİN BÜYÜME OLAYININ İNCELENMESİ, Ankara University, Fen Bilimleri Enstitüsü, Fizik, 1994

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2015 - Continues
Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2007 - 2015
Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2002 - 2007
Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2000 - 2002
Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 1992 - 2000
Research Assistant, Ankara University, Fen Fakültesi, Fizik, 1990 - 1992

Academic and Administrative Experiences

Academic and Administrative Experience

Head of Department, Istanbul University, Faculty Of Science, Department Of Physics, 2020 - Continues

Courses

Atom ve Molekül Fiziği II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
İleri Fizik Uygulamaları, Undergraduate, 2020 - 2021
İleri Molekül Fiziği II, Doctorate, 2020 - 2021
Atom ve Molekül Fiziği, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
İLERİ MOLEKÜL FİZİĞİ II, Doctorate, 2018 - 2019, 2017 - 2018
İLERİ FİZİK UYGULAMALARI I, Undergraduate, 2018 - 2019
BİLİMSEL ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ, Postgraduate, 2018 - 2019
Atom ve Molekül Fiziği II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2013 - 2014
Atomic and Molecular Physics, Undergraduate, 2017 - 2018, 2016 - 2017
Moleküllerin Titreşimsel Kiplerinin Analizi, Postgraduate, 2016 - 2017
FİZİKTE ÖZEL KONULAR, Undergraduate, 2017 - 2018
FİZİKTE ÖZEL KONULAR, Undergraduate, 2016 - 2017
Moleküllerin Titreşimsel Kiplerinin Analizi, Postgraduate, 2013 - 2014, 2012 - 2013
Atom ve Molekül Fiziği Lab. (İ.Ö), Undergraduate, 2013 - 2014
Atom ve Molekül Fiziği Lab., Undergraduate, 2013 - 2014
Atom ve Molekül Fiziği II (İ.Ö), Undergraduate, 2013 - 2014
Atom ve Molekül Fiziği Lab. (İ.Ö.), Undergraduate, 2012 - 2013
Atom ve Molekül Fiziği Lab., Undergraduate, 2012 - 2013, 2011 - 2012
İleri Fizik Uygulamarı, Undergraduate, 2012 - 2013
Moleküllerin Titreşimsel Kiplerinin Analizi, Postgraduate, 2011 - 2012, 2010 - 2011
Atom ve Molekül Fiziği II (İ.Ö), Undergraduate, 2012 - 2013
Fizik IV (İ.Ö), Undergraduate, 2010 - 2011
Fizik IV, Undergraduate, 2011 - 2012, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
İleri Molekül Fiziği II , Doctorate, 2011 - 2012
Molekül Fiziği II, Postgraduate, 2007 - 2008
Simetri ve Grup Teorisi, Postgraduate, 2007 - 2008
İleri Fizik Uygulamaları, Undergraduate, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003
Kırmızı Altı ve Raman Spektroskopisi, Doctorate, 2007 - 2008
Fizik I, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003
Spektral Analiz Yöntemleri, Undergraduate, 2005 - 2006, 2004 - 2005
Fizik II, Undergraduate, 2004 - 2005, 2003 - 2004, 2002 - 2003

Advising Theses

AKKAYA Y., Bazı Potasyum Tutucu Diüretik Moleküller Üzerine Konformasyonel ve Titreşimsel Spektroskobik Analiz, Doctorate, Y.GÖREN(Student), 2016
AKKAYA Y., METOLAZONE MOLEKÜLÜNÜN YAPISAL PARAMETRELERİNİN VE TİTREŞİMSEL ÖZELLİKLERİNİN DENEYSEL VE TEORİK YÖNTEMLERLE ANALİZİ, Postgraduate, Y.ŞALE(Student), 2015
AKKAYA Y., FENAZOPRİRİDİN MOLEKÜLÜNÜN KONFORMASYON ANALİZİ VE AB INITIO DFT YÖNTEMLERİ İLE TİTREŞİM FREKANS VE KİPLERİNİN İNCELENMESİ, Postgraduate, Y.GÖREN(Student), 2009
AKKAYA Y., 2-, 3- VE ASETİLPİRİDİN VE BENZER MOLEKÜLLERİN TİTREŞİMSEL SPEKTRUMLARININ TEORİK VE DENEYSEL YÖNTEMLERLE İNCELENMESİ, Doctorate, O.ÜNSALAN(Student), 2008

Jury Memberships

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, October, 2019
Appointment to Academic Staff-Professorship, Appointment Academic Staff, İstanbul Üniversitesi, April, 2019
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, March, 2019
Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, October, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Üniversitesi, August, 2017
Doctorate, Sefa Çelik Doktora Tez Savunma, İstanbul Üniversitesi, June, 2011
Post Graduate, Aydan Akbay Yüksek Lisans Tez Savunması , İstanbul Üniversitesi , December, 2010
Post Graduate, Uğur Parlatan Yüksek Lisans Tez Savunma, İstanbul Üniversitesi, June, 2010
Post Graduate, Şeyma Şeninak Yüksek Lisans Tez Savunması, İstanbul Üniversitesi, June, 2010
Doctorate, Gülce Öğrüç Ildız Doktora Tez Savunma, İstanbul Üniversitesi, July, 2008

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. **The effects of conformation and zwitterionic tautomerism on the structural and vibrational spectral data of anserine**
Balci K., Akkaya Y., Akyuz S., Collıer W. B., Stricker M. C., Stover D. D., Rıtzhaupt G., Koch A., Kleınpeter E.
VIBRATIONAL SPECTROSCOPY, vol.86, pp.277-289, 2016 (SCI-Expanded)

IV. **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)

V. **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)

VI. **Vibrational Spectroscopic Investigation of Tetracyanopalladate Bridged Two Dimensional Coordination Polymer Compounds of Pyrimidine**
Akkaya Y., Akyuz S., Akyuz T.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.16, pp.9185-9188, 2013 (SCI-Expanded)

VII. **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)

VIII. **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)

IX. **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)

X. **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)

XI. **Infrared and Raman spectra, ab initio calculations vibrational assignment of 4-aminosalicylic acid**
Akkaya Y., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.42, no.2, pp.292-301, 2006 (SCI-Expanded)

XII. **Infrared and Raman spectra, ab initio calculations, force field refinement and vibrational assignment of 3-aminophenol**
Buyukmurat Y., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.921-928, 2005 (SCI-Expanded)

XIII. **Theoretical and experimental studies of IR spectra of 4-aminopyridine metal(II) complexes**
Buyukmurat Y., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.651, pp.533-539, 2003 (SCI-Expanded)

XIV. **Infrared-spectra and normal-coordinate analysis of quinoline and quinoline complexes**
Ozel A., Buyukmurat Y., Akyuz S.
Journal of Molecular Structure, pp.455-462, 2001 (SCI-Expanded)

XV. **Theoretical and experimental IR spectra and assignments of 3-aminopyridine**
Buyukmurat Y., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.563, pp.545-550, 2001 (SCI-Expanded)

XVI. **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)

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., Balcı K., Akkaya Y., Akyüz S.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.65

II. **ANALYSIS OF THE STRUCTURAL AND VIBRATIONAL SPECTRAL DATA OF ANTICANCER DRUG FLUTAMIDE ON THE BASIS OF THE DFT AND HARTREE-FOCK CALCULATIONS**
Arman C., Balcı K., Akkaya Y., Akyüz S.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.65

III. **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**
Balcı K., Arman C., Akkaya Y., Akyüz S., Collıer W. B., Reaves-Mckee T. R., Frankamp A. H., Coates J. T., Rıtzhaupt G.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, no.24, pp.459

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. **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

VI. **The Effects Of Polymerization On The Structure And Molecular Vibrations Of Phenazopyridine**
Goren Y., Akkaya Y., Balcı K., Akyüz S.
'Türk Fizik Derneği 34.Uluslararası Fizik Kongresi', Muğla, Turkey, 4 - 10 September 2018, pp.58

VII. **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**
Aracı Ö., Balcı K., Akkaya Y.
Turkish Physical Society 33rd International Physics Congress, Bodrum, Muğla, Turkey, 6 - 10 September 2017, no.8, pp.537

VIII. **Determination of the electron-electron correlation on the structural and vibrational spectral data calculated for the cyclic oxazine molecules**
Aslntaş S., Akkaya Y., Balcı 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**
Balcı K., Akkaya Y., Akyüz S., Collıer W. B., Stover D. D., Rıtzhaupt G., Strıcker M. C.
Türk Fizik Derneği, 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, no.4, pp.535

X. **A Density Functional Theory based study of the solvent effects on the experimental vibrational spectra of 4-aminopyrimidine**
Akkaya Y., Balcı K., Akyüz S.
Türk Fizik Derneği, 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, pp.87

XI. **A vibrational spectroscopy study on the chemotheraphy drug flutamide by DFT calculations**
Arman C., Balcı K., Akkaya Y., Akyüz S., Collıer W. B.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, no.6, pp.536

XII. **An Experimental and Theoretical Vibrational Spectroscopic Study on Zn(II) Halide Complexes of 4-Aminopyrimidine**
Akkaya Y., Balcı K., Akyüz S.
7th Cambridge Symposium on Nucleic Acids Chemistry and Biology, London, United Kingdom, 3 - 07 September 2017, no.3, pp.70

XIII. **An investigation on the vibrational properties of neutral balenine by Matrix IR spectroscopy and DFT based calculations**
Akkaya Y., Balcı K., Akyüz S.
33rd European Congress on Molecular Spectroscopy (EUCMOS 2016), Szeged, Hungary, 30 July - 04 August 2016, no.1, pp.93

XIV. **AN INTERPRETATION OF THE IR AND RAMAN SPECTRA OF LOMUSTINE MOLECULE BY DFT CALCULATIONS**
Balcı K., Akkaya Y., Akyuz S., Collıer W. B.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, no.17, pp.343

XV. **A theoretical and experimental vibrational spectroscopic study on N tau-methyl histidine and its water complexes**
Akkaya Y., Balcı 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

XVI. **THE ELUCIDATION OF THE STRUCTURE AND VIBRATIONAL PROPERTIES OF 4-HYDROXYCYCLOHEXANONE BY DFT CALCULATIONS, IR AND RAMAN SPECTROSCOPIC MEASUREMENTS**
Balcı K., Akkaya Y., Akyüz S., Koch A., Kleınpeter E.
TURKISH PHYSICAL SOCIETY 31 ST INTERNATIONALPHYSICS CONGRESS, Muğla, Turkey, 21 - 24 July 2014, no.10,

pp.273

XVII. **A VIBRATIONAL SPECTROSCOPIC INVESTIGATION ON METOLAZONE**
Akkaya Y., Balcı K., Şale Y., Akyuz S.
TURKISH PHYSICAL SOCIETY 31 ST INTERNATIONALPHYSICS CONGRESS, Muğla, Turkey, 21 - 24 June 2014, no.2, pp.265

XVIII. **Tautomeric Preference And Conformational Analysis Of Triamterene**
Gören Y., Akkaya Y., Balcı K., Akyüz S.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, no.34, pp.345

XIX. **The Effects Of Hydrogen Bonding On The Structure And Vibrational Properties Of Difluoromethylornithine**
Balcı 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 Heoretical 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, pp.312

XXI. **An investigation onthe structural and vibrational spectroscopic data of some biological active dipeptides**
Akkaya Y., Balcı 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**
Balcı K., Akkaya Y., Akyüz S.
Turkish Physical Society 29th International Physics Congress, Muğla, Turkey, 5 - 09 September 2012, no.13, pp.366

XXIII. **An Investigation on the Conformational Structure and Vibrational Motions of Amiloride.**
GÖREN Y., AKKAYA Y., AKYÜZ S.
Turkish Physical Society 29th International Physics Congress, Turkey, 1 - 04 September 2012, pp.392

XXIV. **A Vibrational Spectroscopic Study On Dansyl Fluoride Molecule By Ir And Raman Spectroscopic Measurements And Dft Calculations**
Balcı K., Akkaya Y., Akyüz S.
31st European Congress on Molecular Spectroscopy (EUCMOS 2012), Cluj-Napoca, Romania, 26 - 31 August 2012, no.5, pp.162

XXV. **Conformational and Vibrational Spectroscopic Analysis of Amiloride Molecule**
GÖREN Y., AKKAYA Y., AKYÜZ S.
31st European Congress on Molecular Spectroscopy (EUCMOS 2012), Romania, 1 - 04 August 2012, pp.183

XXVI. **Conformational and vibrational spectroscopic analysis of 3- and 4-Aminophenylacetic acid molecules**
Akkaya Y., Balcı K., Gören Y., Akyüz S.
28 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, no.4, pp.412

XXVII. **A Vibrational Spectroscopic Investigation On Ibuprofen And Its Solutions**
Akbay A., Balcı K., Akkaya Y., Akyüz S.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.410

XXVIII. **A Conformational And Vibrational Spectroscopic Study On The Non-Steroidal Anti-Inflammatory Drug Piroxicam**
Balcı K., Akkaya Y., Akyüz S.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, no.16, pp.425

XXIX. **Vibrational spectroscopic analysis of L-anserine dipeptide**
Akkaya Y., Balcı K., Akyüz S.
Colloquium Spectroscopicum Internationale XXXVII, Rio-De-Janeiro, Brazil, 28 August - 02 September 2011, no.7, pp.1

XXX. **Conformational Analysis And Ab-Initio, Dft Studies Of Phenazopyridine Molecule**

Gören Y., Akkaya Y., Balcı K., Akyüz S.
Turkish Physical Society 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.151

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.
Colloquium Spectrocopicum Internationale XXXVII, Rio-De-Janeiro, Brazil, 28 August - 02 September 2011, no.6, pp.1

XXXII. **A Theoretical And Experimental Vibrational Spectroscopic Study On Valine-Tyrosine And Its Water Complexes**
Akkaya Y., Balcı K., Akyüz S.
Colloquium Spectrocopicum Internationale XXXVII, Rio-De-Janeiro, Brazil, 28 August - 02 September 2011, no.11, pp.1

XXXIII. **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

XXXIV. **An Ir And Raman Spectroscopic Investigation On Alpha-Difluoromethyl-Ornithine (Dfmo), A Potential Target As Chemotherapeutic Acent**
Balcı K., Akkaya Y., Akyüz S., Unsal N. P.
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Florence, Italy, 29 August - 03 September 2010, no.38, pp.124

XXXV. **Molecular Structure and Vibrational Characteristics of Phenazopyridine molecule: The IR, Raman and DFT studies**
Akkaya Y., Balcı K., Gören Y., Akyüz S.
5th International Conference on Advanced Vibrational Spectroscopy, Melbourne, Australia, 12 - 17 July 2009, no.132, pp.151

XXXVI. **An experimental and theoretical IR and Raman spectroscopic study on isonicotinamide and its ZnCl2 and ZnBr2 complexes**
Balcı K., Akkaya Y., Başar G., Akyüz S.
5th International Conference on Advanced Vibrational Spectroscopy, Melbourne, Australia, 12 - 17 July 2009, no.128, pp.149

XXXVII. **QUANTUM CHEMICAL CALCULATIONS AND VIBRATIONAL SPECTRAL INVESTIGATION OF ROSCOVITINE, A POTENTIAL DRUG TO TREAT CANCERS**
Balcı K., Akkaya Y., Akyuz S., Palavan-Unsal N.
5th International Conference on Advanced Vibrational Spectroscopy, Melbourne, Australia, 12 - 17 July 2009, no.9, pp.86

XXXVIII. **IR and Raman and Density Functional Theory Studies on a Non-Steroidal Anti-Inflammatory Drug, Naproxen**
Akkaya Y., Balcı K., Akyüz S.
31th EUCMOS 2012 (European Conference on Molecular Spectroscopy, Pula, Croatia, 31 August - 05 September 2008, no.1, pp.219

XXXIX. **A Theoretical Conformational Analysis And Vibrational Spectroscopic Investigation On Niflumic Acid**
Balcı K., Akkaya Y., Akyüz S.
XXIX European Congress on Molecular Spectroscopy (EUCMOS 2008), Pula, Croatia, 31 August - 05 September 2008, no.6, pp.41

XL. **THE SPECTROSCOPIC (FT-IR AND RAMAN) AND THEORETICAL STUDIES OF 3-, AND 4-AMINOPHENYLACETIC ACID**
AKKAYA Y., AKYÜZ S.
4th international conference on advanced vibrational spectroscopy (icavs4), Greece, 1 - 04 June 2007, pp.246

XLI. **Vibrational analysis of 4-aminophenylacetic acid**
AKKAYA Y., Akyüz S.

XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.40

XLII. **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

XLIII. **Vibrational spectrocopy and theoretical studies on 2- and 3-acetylpyridine**
ÜNSALAN O., AKKAYA Y., Akyüz S.
XXVIII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.30

XLIV. **Infrared And Raman Spectra, Ab Initio Calculations Vibrational Assignment Of 4-Aminosalicylic Acid**
AKKAYA Y., Akyüz S.
IIIrd International Conference on Advanced Vibrational Spectroscopy, United States Of America, 1 - 04 August 2005, pp.67

XLV. **Infrared And Raman Spectra, Ab Initio Calculations, Force Field Refinement And Vibrational Assignment Of 3-Aminophenol**
AKKAYA Y., Akyüz S.
XXVIIth European Congress on Molecular Spectroscopy, Poland, 1 - 04 September 2004, pp.371

XLVI. **Theoretical And Experimental Studies Of Ir Spectra Of 4-Aminopyridine Metal(Ii) Complexes**
AKKAYA Y., Akyüz S.
XXVI Europian Congress on Molecular Spectroscopy, France, 1 - 04 September 2002, pp.251

XLVII. **heoretical And Experimental Ir Spectra And Assignments Of 3-Aminopyridine**
AKKAYA Y., Akyüz S.
XXV European Congress on Molecular Spectroscopy, Portugal, 1 - 04 September 2002, pp.201

XLVIII. **Infrared Spectra and Normal CoordinateAnalysis of Quinoline and Quinoline Complexes**
ÖZEL A., AKKAYA Y., AKYÜZ S.
XXV European Congress on Molecular Spectroscopy, Portugal, 1 - 04 August 2000, pp.405

XLIX. **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

L. **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

Supported Projects

AKKAYA Y., BALCI K., AKYÜZ S., Project Supported by Higher Education Institutions, An Experimental and Theoretical Vibrational Spectroscopic Study on Zn(II)Halide Complexes of 4Aminopyrimidine, 2017 - 2018

AKKAYA Y., RİTZHAUPT G., BALCI K., RAND A., COLLİER W. B., AKYÜZ S., WHİTE 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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AKKAYA Y., Project Supported by Higher Education Institutions, Bazı biyolojik aktif dipeptidlerin yapısal ve titreşimsel spektroskopik verileri üzerine bir araştırma, 2012 - 2012
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Scientific Refereeing

VIBRATIONAL SPECTROSCOPY, SCI Journal, April 2020
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Metrics

Publication: 66
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Congress and Symposium Activities

Türk Fizik Derneği, 34. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2018
Türk Fizik Derneği, 33. Uluslararası Fizik Kongresi, Attendee, --Seçiniz--, Turkey, 2017
7th Cambridge Symposium on Nucleic Acids Chemistry and Biology, Attendee, London, United Kingdom, 2017
MSSC2016, Ab initio Modelling in Solid State Chemistry, Attendee, London, United Kingdom, 2016
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Bodrum , Türkiye, Attendee, --Seçiniz--, Turkey, 2016

33rd European Congress on Molecular Spectroscopy (EUCMOS 2016), Attendee, Szeged, Hungary, 2016
SPEC 2012 - Shedding New Light on Disease, Attendee, Chiang Mai, Thailand, 2012
29th International Physics Congress, Attendee, Bodrum, Turkey, 2012
Colloquium Spectroscopicum Internationale 37, (CSIXXXVII), Attendee, Amacao de Búzios, Brazil, 2011
28th International Physics Congress, Attendee, Bodrum, Turkey, 2011
14th ECSBM 2011 (European Conference on the Spectroscopy of Biological Molecules), Attendee, Coimbra, Portugal, 2011
27 th International Physics Congress, Attendee, İstanbul, Turkey, 2010
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Attendee, Florence, Italy, 2010
International Conference on Advanced Vibrational Spectroscopy (ICAVS-5), Attendee, Melbourne, Australia, 2009
XXIX European Congress on Molecular Spectroscopy, Attendee, Opatija, Croatia, 2008
The Fourth International Conference on Advanced Vibrational Spectroscopy (ICAVS–4), Attendee, Korfu, Greece, 2007
4th International Conference on Advanced Vibrational Spectroscopy, Attendee, Korfu, Greece, 2007
The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Attendee, İstanbul, Turkey, 2007
XXVIII European Congress on Molecular Spectroscopy, Attendee, İstanbul, Turkey, 2006
The Third International Conference on Advanced Vibrational Spectroscopy' (ICAVS–3), Attendee, Wisconsin, United States Of America, 2005
XXVII Europian Congress on Molecular Spectroscopy, Attendee, Krakow, Poland, 2004
XXVI Europian Congress on Molecular Spectroscopy, Attendee, Villeneuve d'Asq, France, 2002
XXV European Congress on Molecular Spectroscopy, Attendee, Coimbra, Portugal, 2000
XXIV European Congress on Molecular Spectroscopy, Attendee, Prag, Czech Republic, 1998