

## Assoc. Prof. AKİF ÖZBAY

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1990 - 1995

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 1984 - 1987

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1979 - 1983

### Dissertations

Doctorate, Bazı bileşiklerin kırmızı-ıltı ve raman spektroskopileri ile titreşim frekans ve kiplerinin saptanması, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1995

Postgraduate, He-Ne laserinin yapımı, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 1986

### Research Areas

Physics, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2020 - Continues

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 1998 - 2020

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 1984 - 1998

### Academic and Administrative Experience

Vice Dean, Gazi University, Fen Fakültesi, Fizik, 2020 - 2021

Fakülte Yönetim Kurulu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2016 - 2020

Fakülte Kurulu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2016 - 2019

### Courses

Fiz-162 Genel Fizik I, Undergraduate, 2018 - 2019, 2017 - 2018  
Fiz-156 Fizik Lab., Undergraduate, 2018 - 2019, 2017 - 2018  
FİZİK II, Undergraduate, 2017 - 2018  
Grup Teorisine Giriş, Undergraduate, 2017 - 2018, 2016 - 2017  
FZİK I, Undergraduate, 2017 - 2018  
Fiz-103 Fizik I, Undergraduate, 2017 - 2018

## Advising Theses

Özbay A., Eş püskürtme tekniği ile büyütülen mgzno ince filmlerin yapısal ve optiksel karakterizasyonu, Postgraduate, N.BOZKURT(Student), 2016  
ÖZBAY A., The Structural And Optical Characterization Of Mgzno Thin Films By Magnetron Co-Sputtering, Postgraduate, N.Bozkurt(Student), 2016  
Özbay A., Free energy calculation of ion and ligand binding to membrane proteins, Doctorate, M.ÇAVUŞ(Student), 2013  
Özbay A., The study of vibration of 1,7-diaminoheptane molecule through theoretical methods, Postgraduate, M.ERKAN(Student), 2012  
Özbay A., Morpholine molekülünün yapısal ve elektroniksel özelliklerinin hesabı, Postgraduate, İ.YUNA(Student), 2010  
Özbay A., Flavone molekülünün yapısal ve elektroniksel özelliklerinin hesabı, Postgraduate, M.TÜRK(Student), 2010  
ÖZBAY A., THE STUDY OF VIBRATIONS OF FLAVONE MOLECULE THROUGH THEORETICAL METHOD, Postgraduate, M.TÜRK(Student), 2010  
ÖZBAY A., MORPHOLİNE MOLEKÜLÜNÜN YAPISAL VE ELEKTRONİKSEL ÖZELLİKLERİNİN HESABI, Postgraduate, İ.YUNA(Student), 2010  
Özbay A., Tiyenil oksazol ve tiyenil izoksazol moleküllerinin yapısal, elektronik ve çizgisel olmayan optik özelliklerinin teorik incelenmesi, Postgraduate, R.ÖLÇER(Student), 2009  
Özbay A., THE STUDY OF VIBRATION OF 1,4-DIAMINO BUTANE MOLECULE THROUGH THEORETICAL METHODS, Postgraduate, A.GÖZÜTOK(Student), 2009  
ÖZBAY A., THEORETICAL INVESTIGATION OF ELECTRONIC AND NONLINEAR OPTICAL PROPERTIES OF THIOPHENE MOLECULES, Postgraduate, R.ÖLÇER(Student), 2009  
ÖZBAY A., THE INVESTIGATION OF FREQUENCY AND RADIATION DEPENDENT OF MAIN PHYSICAL PARAMETRES OF Al/SiO<sub>2</sub>/p-Si (MIS) STRUCTURES, Postgraduate, İ.TAŞÇIOĞLU(Student), 2008  
Özbay A., Işığa duyarlı yarıiletken gaz boşalma yapısının özellikleri, Postgraduate, K.AKTAŞ(Student), 2008  
Özbay A., Al/SiO<sub>2</sub>/p-Si (MIS) yapılarında temel fiziksel parametrelerin frekansa ve radyasyona bağlı incelenmesi, Postgraduate, İ.TAŞÇIOĞLU(Student), 2008  
Özbay A., 1,5 diaminopentan molekülünün titreşim spektrumlarının teorik yöntemlerle incelenmesi, Postgraduate, E.ALBAYRAK(Student), 2007  
Özbay A., Bazı Hofmann-tipi konak-konuk bileşiklerinin kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, İ.HAKAN(Student), 2006  
Özbay A., 1,8-diaminooktan molekülünün titreşim spektrumunun teorik olarak incelenmesi, Postgraduate, N.ZAFER(Student), 2006  
Özbay A., 1,6-diaminoheksan molekülünün titreşim spektrumlarının teorik yöntemler ile incelenmesi, Postgraduate, E.TONGUÇ(Student), 2006  
Özbay A., Bazı Hofmann tipi konak-konuk bileşenlerinin infrared spektroskopisi ile incelenmesi, Postgraduate, Z.A. (Student), 2003  
Özbay A., Hofmann-Td tipi konak-konuk bileşiklerinin titreşim spektroskopisi ile incelenmesi, Postgraduate, T.POLAT(Student), 2003  
Özbay A., Hofmann-tipi konak-konuk bileşenlerinin kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, T.S. (Student), 2003

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Origin of frequency and voltage dependent negative dielectric properties in the Al/p-Si Schottky diodes with (Cd<sub>0.3</sub>Zn<sub>0.7</sub>O) interfacial layer in the wide range of frequency and voltage**  
Delen N., Altındal Yerişkin S., ÖZBAY A., Taşcıoğlu İ.  
Physica B: Condensed Matter, vol.665, 2023 (SCI-Expanded)
- II. **Density functional calculations on the structural and vibrational properties of 1,4-diaminobutane**  
Özbay A., Gozutok A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1199, 2020 (SCI-Expanded)
- III. **The role of Co-60 gamma-ray irradiation on the interface states and series resistance in MIS structures**  
Tascioglu I., Tataroğlu A., Özbay A., Altındal Ş.  
RADIATION PHYSICS AND CHEMISTRY, vol.79, pp.457-461, 2010 (SCI-Expanded)
- IV. **Infrared spectroscopic study on the Hofmann-dadn-type and the T-d-dahxn-type clathrates**  
Ozbay A., Saglam S., Sertbakan T. R., Kasap E., Ozcelik S.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.58, no.1-2, pp.49-54, 2007 (SCI-Expanded)
- V. **Investigation of host-guest interactions in the Hofmann-daddn-type clathrates: M(1,12-diaminododecane)Ni(CN)(4)center dot G (M = Co, Ni or Cd; G = toluene, m-xylene, o-xylene or p-xylene)**  
Sertbakan T., Saglam S., Ozbay A., Ozcelik S.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.49, no.3-4, pp.235-240, 2004 (SCI-Expanded)
- VI. **Infrared spectroscopic study of the Hofmann-daon-type clathrates: M(1,8-diaminooctane)Ni(CN)(4)center dot G (M = Co, Ni or Cd; G = Aromatic guest molecules)**  
Kasap E., Ozbay A.  
JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.28, pp.335-347, 1997 (SCI-Expanded)
- VII. **Infrared and Raman spectroscopic study of the Hofmann-type clathrates M(1,7-diaminoheptane)Ni(CN)<sub>4</sub>·G (M = Ni or Co; G = chlorobenzene, m-xylene or naphthalene)**  
Kasap E., Ozbay A., Ozcelik S.  
Journal of Molecular Structure, pp.425-430, 1997 (SCI-Expanded)
- VIII. **Infrared spectroscopic study of the Hofmann-diam-type clathrates : M(1,6-diaminohexane)Ni(CN)<sub>4</sub>·C<sub>6</sub>H<sub>6</sub> (M=Ni, Co or Cd)**  
Kasap E., Ozbay A., Ozcelik S.  
Spectroscopy Letters, vol.30, pp.491-496, 1997 (SCI-Expanded)
- IX. **VIBRATIONAL SPECTROSCOPIC STUDIES OF 2,4-LUTIDINE METAL(II) TETRACYANONICKELATE COMPLEXES**  
OZBAY A., YURDAKUL Ş.  
JOURNAL OF MOLECULAR STRUCTURE, vol.349, pp.13-16, 1995 (SCI-Expanded)
- X. **VIBRATIONAL SPECTROSCOPIC STUDIES OF 3,4-LUTIDME METAL .2. TETRACYANONICKELATE COMPLEXES**  
OZBAY A., YURDAKUL Ş.  
SPECTROSCOPY LETTERS, vol.28, no.4, pp.611-619, 1995 (SCI-Expanded)
- XI. **AN INFRARED AND RAMAN-SPECTROSCOPIC STUDY ON TRANSITION-METAL DIISOQUINOLINE TETRACYANONICKELATE COMPLEXES**  
OZBAY A., YURDAKUL Ş.  
JOURNAL OF MOLECULAR STRUCTURE, vol.293, pp.77-80, 1993 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Voltage Dependent Profiles of the Surface States and Series Resistance (Rs) in the Al-(Cd:ZnO)-pSi Schottky Diodes (SDs) Utilizing Voltage-Current (IV) Characteristics**  
Delen N., Tascioglu I., ALTINDAL YERİŞKİN S., ÖZBAY A.  
Gazi University Journal of Science, vol.37, no.1, pp.457-463, 2024 (ESCI)
- II. **Combined Vibrational Spectroscopic and Quantum Chemical Investigations of 1,8-diaminooctane**  
ÖZBAY A., GÖZÜTOK A.  
Celal Bayar University Journal of Science, vol.15, no.1, pp.119-123, 2019 (Peer-Reviewed Journal)
- III. **ET DEKONTAMİNASYONUNDA ELEKTRON DEMETİLEŞTİRİLMESİ (EDI) KULLANIMI**  
ÖZBAY S., ÖZBAY A.  
Journal of Food and Health Science, vol.1, no.4, pp.178-184, 2015 (Peer-Reviewed Journal)
- IV. **Vibrational spectroscopic study of the hofmann-diam-type clathrates M( 1,7-diaminoheptane) Ni (CN)<sub>4</sub>. G (M=Ni or Cu G=Benzene, 1,2-1,3-1,4-dichlorobenzene, p-xylene, o-xylene, toluene)**  
ÖZBAY A., Reshid Muzefferi T. S.  
Bulletin of pure and applied sciences, vol.31, no.1, pp.42-47, 2012 (Peer-Reviewed Journal)
- V. **Vibrational spectroscopic Study on Hofmann-Td-Type Complexes: M(3,4-lutidine)<sub>2</sub>M'xx(CN)<sub>4</sub> (M=Mn(II) or Cd(II), M'xx=Cd(II) or Hg(II))**  
Özbay A., Yurdakul Ş.  
Gazi University Journal of Science, vol.16, no.4, pp.687-690, 2003 (Peer-Reviewed Journal)
- VI. **An infrared and Raman spectroscopic study of some isoquinoline metal (II) tetracyanonickelate complexes**  
ÖZBAY A., YURDAKUL Ş.  
ARI, vol.50, no.1, pp.223-226, 1997 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Density Functional Calculations On The Geometrical Electronic And Nonlinear Optical Properties Of Hexamethylenediamine**  
Özbay A., Gözütok A.  
International Conference On Engineering Technologies (ICENTE'xx20), Konya, Turkey, 19 - 21 November 2020
- II. **Density Functional Theory study on the Structural and Vibrational Properties of 1,5 - diaminopentane**  
Gözütok A., Özbay A.  
International Conference on Engineering Technologies(ICENTE19), Konya, Turkey, 25 - 27 October 2019
- III. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- IV. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- V. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
Sağlam S., Başköse C., Özbay A., Taşcıoğlu İ.  
THERMAM 2019, İzmir, Turkey, 22 - 24 September 2019
- VI. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- VII. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**

SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.

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- VIII. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
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SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- X. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- XI. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- XII. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- XIII. **QUANTUM CHEMICAL STUDIES OF SOME DIAMINE DERIVATIVES: THEORETICAL INVESTIGATION**  
SAĞLAM S., BASKÖSE U. C., ÖZBAY A., SERTBAKAN T. R.  
6th International Conference on Thermophysical and Mechanical Properties of Advanced Materials, İZMİR/ÇEŞME, Turkey, 22 - 24 September 2019, pp.55
- XIV. **Theoretical Calculations on Structural Properties of 1,8-diaminooctane**  
Özbay A.  
3. Organik Elektronik Çalıştayı, Amasya, Turkey, 22 - 23 November 2018
- XV. **Theoretical studies of N, N'xx-tetrachloro 1,4-Diaminobutane and N, N'xx-Tetrabromo 1,4 Diaminobutane**  
Gözütok A., Özbay A.  
International Conference on Engineering Technologies, Konya, Turkey, 26 - 28 October 2018
- XVI. **Theoretical Calculations on Structural properties of 1,4-Diaminobutane**  
Gözütok A., Özbay A.  
International Conference of Engineering Technologies, Konya, Turkey, 26 - 28 October 2018
- XVII. **ELECTRONIC AND OPTICAL PROPERTIES OF MONO AND DI FLUORO PYRROLES**  
ÖZBAY A., BAHAT M.  
INTERNATIONAL CONFERENCEON ENGINEERING TECHNOLOGIES, 7 - 09 October 2017
- XVIII. **STRUCTURE AND ELECTRONIC PROPERTIES OF C42H12N6 MOLECULE AND ITSSUBSTRUCTURES**  
BAHAT M., ÖZBAY A., ÖZİŞİK H., ATEŞER E.  
INTERNATIONAL CONFERENCEON ENGINEERING TE,CHNOLOGIES, 7 - 09 August 2017
- XIX. **TORSIONAL ANALYSIS OF BIPYRIMIDINE MOLECULES**  
ÇİFTÇİ H., BAHAT M., ÖZBAY A.  
INTERNATIONAL CONFERENCEON ENGINEERING TE,CHNOLOGIES, 7 - 09 August 2017
- XX. **Structure, electronic and non linear optical properties of some bipyrimidines**  
Güney M. N., BAHAT M., ÖZBAY A.  
Türk Fizik Derneği 22. Uluslararası Fizik Kongresi, 6 - 09 October 2016
- XXI. **Structure, Electronic and Nonlinear Optical Properties of Furyloxazoles and Thienyloxazoles**  
DAĞLI Ö., Gök R., BAHAT M., ÖZBAY A.

International Physics Conference at the Anatolian Peak (IPCAP), Erzurum, Turkey, 25 - 27 February 2016, vol.707

- XXII. **A Computational Study on The Electronic and Nonlinear Optical Properties of Graphyne Subunit**  
BAHAT M., Güney M. N., ÖZBAY A.  
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
- XXIII. **MgZnO filmlerinin eş-püskürtme sistemi ile büyütülmesi: yapısal ve optik karakterizasyon**  
bozkurt n., Efker H. İ., Akın N., ÖZBAY A., ÖZÇELİK S.  
21. Yoğun madde fiziği Ankara Toplantısı, Turkey, 25 December 2015
- XXIV. **C30H12 ve C12B9N9H12 moleküllerinin ve bazı floro türevlerinin elektronik ve çizgisel olmayan optik özellikleri**  
Güney M. N., Aydın B., BAHAT M., ÖZBAY A.  
21. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 25 December 2015
- XXV. **A DENSITY FUNCTIONAL CALCULATIONS ON THE GEOMETRICAL, ELECTRONIC AND NONLINEAR OPTICAL PROPERTIES OF THIENYL OXAZOLES AND THIENYLISOXAZOLES**  
Olçer R., BAHAT M., ÖZBAY A.  
TURK FİZİK DERNEĞİ 25. ULUSLARARASI FİZİK KONGRESİ, 25 - 29 August 2008
- XXVI. **ON THE PROFILE OF  $^{60}\text{Co}$   $\gamma$ -RAY IRRADIATION DEPENDENT INTERFACE STATES AND SERIES RESISTANCE IN Al/SiO<sub>2</sub>/p-Si (MIS) STRUCTURES**  
ALTINDAL Ş., TAŞÇIOĞLU İ., ÖZBAY A.  
5. Uluslararası Bilim Teknik Konferansı: Fiziğin Güncel Problemleri, 25 - 27 June 2008
- XXVII. **On the profile of frequency dependent interface states and series resistance in Al/SiO<sub>2</sub>/P-Si (MisStructure)**  
SAĞLAM S., TAŞÇIOĞLU İ., ÖZBAY A.  
5. Uluslararası Bilim Teknik Konferansı: Fiziğin Güncel Problemleri, 25 June 2008 - 27 June 2018
- XXVIII. **Vibrational spectroscopic study on Hofmann Td type Clathrates: Cd(1,8-Diaminooctane)Hg(CN<sub>4</sub>).G (G= Benzene, 1,2-,1,3-Dichlorobenzene, O-M-P-Xylene)**  
ÖZBAY A., Polat T., SAĞLAM S., SERTBAKAN T. R., KASAP E.  
5th. general conference of the Balkan Physics Union, 25 - 29 August 2003
- XXIX. **Vibrational spectroscopic studies on the Td-Type Clathrates : Cd(1,6-Diaminohexane) M(CN)<sub>4</sub>C<sub>6</sub>H<sub>6</sub> (M=Cd or Hg)**  
SAĞLAM S., ÖZBAY A., KASAP E., ÖZÇELİK S.  
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- XXX. **Comparing of Host-Guest interaction in the Hofmann-1,10 Diaminododecane-type and Hofmann -1,12 Diaminododecane-type clathrates**  
SAĞLAM S., SERTBAKAN T. R., ÖZBAY A., ÖZÇELİK S., KASAP E.  
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- XXXI. **Infrared spectroscopic study on the Hofmann-dadn-type clathrates: M(1,10-Diaminododecane)Ni(CN)<sub>4</sub>.1,5G (M=Co, Ni or Cd G=o-Xylene, m-xylene, p-xylene)**  
ÖZBAY A., SERTBAKAN T. R., SAĞLAM S., KASAP E.  
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- XXXII. **Investigation of Host-Guest interaction in the Hofmann -daddn-type clathrates: M(1,12-Diaminododecane)Ni(CN)<sub>4</sub>. G (M=Co, Ni or Cd G=Toluene, o-Xylene, m-Xylene, p-Xylene)**  
SERTBAKAN T. R., SAĞLAM S., ÖZBAY A., ÖZÇELİK S.  
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- XXXIII. **Transition metal halide complexes of 2,5-dimethylaniline: A study of Infrared Spectroscopy**  
ÖZÇELİK S., Döner A. R., SAĞLAM S., ÖZBAY A.  
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- XXXIV. **Vibrational spectroscopic study on Hofmann-Td-type complexes: M(3,4-Lutidine)<sub>2</sub>M'xx(CN)<sub>4</sub>. (M=Mn(II) or Cd(II), M'xx=Cd(II) or Hg(II))**  
ÖZBAY A., YURDAKUL Ş.  
Colloquium Spectroscopicum Internationale XXXI, 5 - 10 October 1999

- XXXV. **AN INFRARED AND RAMAN SPECTROSCOPIC STUDY ON SOME ISOQUINOLINE METAL(II) TETRACYANONICKELATE COMPLEXES**  
ÖZBAY A., YURDAKUL Ş.  
International Symposium on Lasers, Atomic and Molecular Physics, 16 - 20 October 1997
- XXXVI. **Infrared and Raman Spectroscopic study of Hofmann-type Clathrates: M(1,7-Diaminoheptane)Ni(CN)<sub>4</sub>. G (M=Ni or Co G=Chlorobenzene, m-xylene and Naphtalene)**  
KASAP E., ÖZÇELİK S., ÖZBAY A.  
XXIII European congress on Molecular Spectroscopy, 25 - 30 August 1996
- XXXVII. **Infrared and Raman Spectroscopic Studies on the Hofmann-type Benzene Clathrates: M(1,7-diaminoheptane) Ni(CN)<sub>4</sub>. G.(M= Ni or Co G=Chlorobenzene, m-Xylene or Naphtalene)**  
KASAP E., ÖZBAY A., ÖZÇELİK S.  
XXIII European Congress on Molecular Spectroscopy, Hungary, 25 - 30 August 1996
- XXXVIII. **Hofmann-tipi Konak-Konuk Bileşiklerinin İnfrared ve Raman Spektroskopisi Çalışması: M(1,5-Diaminopentan)Ni(CN)<sub>4</sub>. Benzen (M=Cd, Ni veya Co)**  
KASAP E., ÖZBAY A., ÖZÇELİK S.  
1. Ulusal Atom ve Molekül Fizik Sempozyumu, Turkey, 24 - 26 June 1996
- XXXIX. **Hofmann-tipi Konak-Konuk Bileşiklerinin İnfrared ve Raman Spektroskopisi Çalışması: M(1,7-diaminoheptane) Ni(CN)<sub>4</sub>. G.(M= Cd, Ni or Co)**  
KASAP E., ÖZBAY A., ÖZÇELİK S.  
I. Ulusal Atom ve Molekül Fizik Sempozyumu, Turkey, 24 - 26 June 1996
- XL. **An IR and Raman spectroscopic study on Hofmann-Td-Type complexes: M(3,4-Lutidine)<sub>2</sub>M'xx(CN)<sub>4</sub> (M=Mn(II) or Cd(II), M'xx=Cd(II) or Hg(II))**  
ÖZBAY A., YURDAKUL Ş., Kantarcı Z.  
22nd European Congress on Molecular Spectroscopy, 11 - 16 October 1994
- XLI. **Diizokinolin-Metal(II) tetrasiyonikelat komplekslerinin Kırmızı-Altı Çalışması**  
ÖZBAY A., YURDAKUL Ş.  
13. Ulusal Fizik Kongresi, Turkey, 30 September - 02 October 1992
- XLII. **AN INFRARED AND RANAN SPECTROSCOPIC STUDYOJ'xxT TRANSITION r.t!ETAL DIISOQUINOLII\TETETRACYANONICKELATE CON~LEXES**  
ÖZBAY A., YURDAKUL Ş.  
XXI. EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY, 23 - 28 August 1992

## Supported Projects

- ÖZBAY A., Project Supported by Higher Education Institutions, Bazı organik moleküllerin spektroskopik özelliklerinin teorik ve deneysel yöntemlerle incelenmesi, 2017 - 2019
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## Metrics

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