

# Prof. ERGÜN KASAP

## Personal Information

**Email:** [ergun@gazi.edu.tr](mailto:ergun@gazi.edu.tr)

**Web:** <https://avesis.gazi.edu.tr/ergun>

## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1987 - 1992

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1984 - 1986

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1978 - 1983

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Bazı Td-tipi konak-konuk bileşiklerinin infrared spektroskopisi ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1992

Postgraduate, Fe-17, 1 Ni-O. 85C alaşımında faz dönüşümü ve birim hücre şekil değişimi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1986

## Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 2002 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 1997 - 2002

Assistant Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 1992 - 1997

Research Assistant, Gazi University, Fen Fakültesi, Fizik Bölümü, 1984 - 1992

## Academic and Administrative Experience

Gazi University, Fen Fakültesi, Fizik Bölümü, 2011 - 2015

Gazi University, Uzaktan Eğitim Meslek Yüksekokulu, 2008 - 2014

Gazi University, Rektörlük, 2003 - 2004

Gazi University, Sağlık Hizmetleri Meslek Yüksekokulu, 2002 - 2004

Gazi University, Rektörlük, 2000 - 2003

Gazi University, Rektörlük, Enformatik Bölümü, 2000 - 2003

Gazi University, Fen Fakültesi, Fizik Bölümü, 1996 - 1999

## Courses

Fiz-103 Genel Fizik I, Undergraduate, 2017 - 2018

## Advising Theses

- KASAP E., Design And Control Electronics Systems Of The Beam Position Monitor For Tarla Facility, A.Aydın(Student), 2017
- KASAP E., Tarla tesisi için demet pozisyon mobitörü tasarımı ve kontrol elektroniği sistemi, Doctorate, A.AYDIN(Student), 2017
- KASAP E., The deposition of Al:ZnO films ON p-Si, GaAs and Ge substrates: The investigation of structural, optical and electrical properties, Postgraduate, G.KURTULUŞ(Student), 2014
- KASAP E., Transport line design of free electron laser in infrared region, Postgraduate, E.ERBAY(Student), 2012
- KASAP E., Comparison of conventional and conformal radiotherapy techniques in head and neck cancer treatment, Postgraduate, B.DEMİRBAŞ(Student), 2011
- KASAP E., BAZI YARI İLETKENLERİN ELEKTRONİK, ELASTİK VE OPTİK ÖZELLİKLERİNİN AB İNİTİO METODU İLE İNCELENMESİ, M.SH.(Student), 2009
- KASAP E., Bazı yarı iletkenlerin elektronik, elastik ve optik özelliklerinin ab initio metodu ile incelenmesi, Doctorate, M.OTHMAN(Student), 2009
- KASAP E., Ders notlarına Ağ/CD ortamında erişimi sağlayan bir yazılım geliştirme ve yazılıma ilişkin öğretmen görüşleri, Postgraduate, M.KEMAL(Student), 2006
- KASAP E., 3-feniltiyofen molekülü ve florlu türevlerinin yapısal parametreleri, elektronik ve lineer olmayan optik özelliklerinin teorik olarak incelenmesi, Doctorate, G.UĞURLU(Student), 2006
- KASAP E., Fenilazin moleküllerinin yapısal parametreleri ile elektronik ve doğrusal olmayan optik özelliklerinin (NLO) incelenmesi, Doctorate, H.ALYAR(Student), 2005
- KASAP E., Embeddet Atom Metodunun bazı atomlara ve alaşımlara uygulanması, Doctorate, H.İBRAHİM(Student), 2004
- KASAP E., Üniversite öğrenci işleri otomasyonu modeli, Postgraduate, U.YILDIRIM(Student), 2003
- KASAP E., Dış haber yayın sürecinde ana akım medyalar karşısında bir alternatif medya modeli olarak internet'in konumu ve önemi, Postgraduate, G.DERELİOĞLU(Student), 2002
- KASAP E., Benzenli Hofman-Diamin tipi konak bileşiklerinin spektrumlarına ait titreşimlerin incelenmesi, Postgraduate, H.SARIBIYIK(Student), 2000
- KASAP E., NİN atom kümelerinin yapısı ve faz geçişlerinin incelenmesi, Postgraduate, B.TANSEL(Student), 1998
- KASAP E., Bazı hofmann-diam tipi konak-konuk bileşiklerinin infrared spektroskopisi ile incelenmesi, Postgraduate, G.YUMURTACI(Student), 1998
- KASAP E., Yüksek sıcaklık fırını tasarımı ve yapımı, Postgraduate, S.ACAR(Student), 1996
- KASAP E., Embedded atom metodu ve bazı atomlara uygulanması, Postgraduate, H.DURSUN(Student), 1996

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Impact of pressure and composition on the mechanical behavior of  $\text{In}_x\text{Ga}_{1-x}\text{As}_1\text{-yPy}$  and  $\text{Al}_x\text{In}_{1-x}\text{Sb}_1\text{-yPy}$  quaternary alloys**  
Othman M., Salih S., Sedighi M., KASAP E.  
RESULTS IN PHYSICS, vol.14, 2019 (Journal Indexed in SCI)
- II. **Torsional potential and nonlinear optical properties of phenyldiazines and phenyltetrazines**  
Alyar H., Bahat M., Kantarci Z., KASAP E.  
COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.977, pp.22-28, 2011 (Journal Indexed in SCI)
- III. **The structural, electronic and optical properties of  $\text{In}_x\text{Ga}_{1-x}\text{P}$  alloys**  
Othman M., KASAP E., Korozlu N.  
PHYSICA B-CONDENSED MATTER, vol.405, no.10, pp.2357-2361, 2010 (Journal Indexed in SCI)
- IV. **Ab-initio investigation of structural, electronic and optical properties of  $\text{In}_x\text{Ga}_{1-x}\text{As}$ ,  $\text{GaAs}_1\text{-yPy}$  ternary and  $\text{In}_x\text{Ga}_{1-x}\text{As}_1\text{-yPy}$  quaternary semiconductor alloys**

Othman M., KASAP E., Korozlu N.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.496, pp.226-233, 2010 (Journal Indexed in SCI)

- V. **Comparing of the host-guest interaction in the Hofmann-1,10-diaminododecane and Hofmann-1,12-diaminododecane-type clathrates**  
Saglam S., Sertbakan T. R. , Ozbay A., Ozcelik S., Kasap E.  
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.66, pp.243-249, 2010 (Journal Indexed in SCI Expanded)
- VI. **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, pp.49-54, 2007 (Journal Indexed in SCI)
- VII. **A theoretical study of the linear, nonlinear optical properties and conformational analysis of 3-phenylthiophene and its fluoro derivatives with torsional dependence**  
Ugurlu G., KASAP E., Kantarci Z., Bahat M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.508-515, 2007 (Journal Indexed in SCI)
- VIII. **Investigation of torsional barriers and nonlinear optical (NLO) properties of phenyltriazines**  
Alyar H., Kantarci Z., Bahat M., KASAP E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.516-520, 2007 (Journal Indexed in SCI)
- IX. **Torsional barriers and nonlinear optical properties of 2-, 3-, 4-phenylpyridine molecules**  
Alyar H., Bahat M., KASAP E., Kantarci Z.  
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.56, no.4, pp.349-358, 2006 (Journal Indexed in SCI)
- X. **Infrared spectroscopic study of T-d-type piperazinemetal(II) tetracyanommetallate(II) benzene(1/1) clathrates: Cd(C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>)Cd(CN)<sub>4</sub>center dot C<sub>6</sub>H<sub>6</sub> and Cd(C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>)Hg(CN)<sub>4</sub>center dot 1,25 C<sub>6</sub>H<sub>6</sub>**  
Kantarci Z., Sertbakan T., KASAP E.  
SPECTROSCOPY LETTERS, vol.38, pp.583-594, 2005 (Journal Indexed in SCI)
- XI. **Vibrational spectroscopic studies on the 1,4-diaminobutane-T-d-type clathrates: Cd(dabn)M(CN)<sub>4</sub>center dot 1,5C<sub>6</sub>H<sub>6</sub> (M = Cd or Hg)**  
Kantarci Z., Saglam S., KASAP E.  
SPECTROSCOPY LETTERS, vol.35, no.6, pp.811-819, 2002 (Journal Indexed in SCI)
- XII. **An infrared spectroscopic study on the Hofmann- and en-T-d-type clathrates: Mn(NH<sub>3</sub>)<sub>2</sub>Zn(CN)<sub>4</sub>.2benzene and Mn(ethylenediamine)Zn(CN)<sub>4</sub>.2benzene**  
Kantarci Z., Bayrak C., KASAP E.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.39, pp.103-108, 2001 (Journal Indexed in SCI)
- XIII. **An infrared spectroscopic study on the Hofmann-diam-type 1,12-diaminododecanemetal(II) tetracyanonickelate(II)-aromatic guest clathrates: M(H<sub>2</sub>N(CH<sub>2</sub>)<sub>12</sub>NH<sub>2</sub>)Ni(CN)<sub>4</sub>center dot G (M=Co, Ni or Cd; G = benzene, naphthalene, anthracene, phenanthrene or biphenyl)**  
Senyel M., Sertbakan T., Kurkcuoglu G., KASAP E., Kantarci Z.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.39, pp.175-180, 2001 (Journal Indexed in SCI)
- XIV. **Infrared spectroscopic study of the Hofmann-dadn-type clathrates: M(1,10-diaminododecane) Ni(CN)<sub>4</sub>center dot 1,5G (M = Co, Ni or Cd; G = chlorobenzene, 1,2-, 1,3- or 1,4-dichlorobenzene)**  
Sertbakan T., Saglam S., KASAP E., Kantarci Z.  
VIBRATIONAL SPECTROSCOPY, vol.24, no.2, pp.249-255, 2000 (Journal Indexed in SCI)
- XV. **An infrared and Raman spectroscopic study on the Hofmann-T-d-type 1,4-dioxane clathrates: M(NH<sub>3</sub>)<sub>2</sub>M'(CN)<sub>4</sub>center dot 2C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> (M = Mn or Cd, M' = Hg; M = Cd, M' = Cd)**  
Zengin T., Kantarci Z., KASAP E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.81-85, 1999 (Journal Indexed in SCI)
- XVI. **Infrared spectroscopic studies of the Hofmann-daon-type clathrates: M(1,8-diaminooctane)Ni(CN)<sub>4</sub>center dot G (M = Co, Ni or Cd; G = 1,2-dichlorobenzene or 1,4-dichlorobenzene)**

- Sertbakan T, Saglam S, KASAP E, Kantarci Z.  
 JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.75-79, 1999 (Journal Indexed in SCI)
- XVII. **Investigation of host-guest interactions in the Hofmann-dabn-type clathrates: M(1,4-diaminobutane)Ni(CN)(4)center dot 1.5G (M = Co or Ni, G = benzene derivatives)**  
 Saglam S, Sertbakan T, KASAP E, Kantarci Z.  
 JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.69-74, 1999 (Journal Indexed in SCI)
- XVIII. **An infrared and raman spectroscopic study of pn-T-d-type dl-propylenediaminemetal(II) tetracyanometallate(II) benzene clathrates: M(dl-pn)M'(CN)(4).nC(6)H(6) (M = Mn, M' = Zn, Cd or Hg; M = Cd, M' = Cd or Hg; 1 <= n <= 1.5)**  
 Kantarci Z., Bayrak C., KASAP E.  
 JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.33, no.3, pp.285-294, 1999 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **Vibrational spectroscopic studies on the T-d-type clathrates: M(trimethylenediamine)M'(CN)(4)center dot 2C(6)H(6) (M=Mn or Cd, M'=Cd or Hg)**  
 KASAP E., Kantarci Z.  
 JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.28, no.2, pp.117-124, 1997 (Journal Indexed in SCI)
- XXI. **Infrared and Raman spectroscopic study of the Hofmann-type clathrates M(1,7-diaminoheptane)Ni(CN)4-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 (Journal Indexed in SCI Expanded)
- XXII. **Infrared spectroscopic study of the Hofmann-diam-type clathrates : M(1,6-diaminohexane)Ni(CN)4 · C6H6 (M=Ni, Co or Cd)**  
 Kasap E., Ozbay A., Ozcelik S.  
 Spectroscopy Letters, vol.30, pp.491-496, 1997 (Journal Indexed in SCI Expanded)
- XXIII. **Vibrational spectroscopic studies on the Hofmann-dabn-type benzene clathrates: M(1,4-diaminobutane)Ni(CN)4 · 1.5C6H6 (M = Mn, Fe, Co, Ni or Cd)**  
 KASAP E., Ozcelik S.  
 Journal of Inclusion Phenomena and Molecular Recognition in Chemistry, vol.28, no.3, pp.259-267, 1997 (Journal Indexed in SCI Expanded)
- XXIV. **Vibrational spectroscopic studies on the en-Td-type benzene clathrates: M(ethylenediamine)M'(CN)(4)center dot 2C(6)H(6) (M=Mn or Cd, M' Cd or Hg)**  
 KASAP E., Kantarci Z.  
 JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.23, no.1, pp.1-9, 1995 (Journal Indexed in SCI)
- XXV. **VIBRATIONAL SPECTROSCOPIC STUDIES ON THE HOFMANN-TD-TYPE CLATHRATES - M(NH3)(2)M'(CN)(4)CENTER-DOT-2C(6)H(6) (M=MN OR CD AND M'=CD OR HG)**  
 KASAP E., KANTARCI Z.  
 JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.20, no.1, pp.33-41, 1994 (Journal Indexed in SCI)
- XXVI. **SUPERSYMMETRIC WKB SOLUTIONS FOR PSEUDO HARMONIC AND MIE-TYPE POTENTIALS**  
 KASAP E., GONUL B., SIMSEK M.  
 CHEMICAL PHYSICS LETTERS, vol.172, no.6, pp.499-502, 1990 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Design studies for the beam position monitor (BPM) front-end electronics of the Turkish accelerator and radiation laboratory in Ankara (TARLA)**  
AYDIN A., KASAP E.  
TURKISH JOURNAL OF PHYSICS, vol.41, no.3, pp.269-276, 2017 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Conformational analysis, dipole moment and polarizability of 3-(2-chlorophenyl)thiophene**  
Ugurlu G., KASAP E., oezisik H., Kantarci Z.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.571
- II. **A theoretical study of molecular structure and potential energy surface for various substituents substituted 3-phenylthiophene**  
Ugurlu G., KASAP E., oezisik H., Kantarci Z.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.572
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **A Study on The Kratzer Potential**  
ŞİMŞEK M., ÖZÇELİK S., KASAP E.

Gen. Balkan Phys. Union, İzmir, Turkey, 12 - 14 September 1994

## Supported Projects

KASAP E., Industrial Thesis Project, Uzaktan Eğitim Yönetim Sistemi Otomasyonu Yazılımı, 2012 - Continues

KASAP E., Project Supported by Higher Education Institutions, Gazi Üniversitesinde SPSS Paket Programının Kullanımı ve Yaygınlaştırılması, 2003 - Continues

KASAP E., Project Supported by Higher Education Institutions, Hafman n-Diam tipi Kozak konuk bileşiklerinin titreşim spektroskopisi ile incelenmesi, 1997 - Continues

## Citations

Total Citations (WOS):310

h-index (WOS):11