

Prof. ERGÜN KASAP

Personal Information

Office Phone: [+90 312 202 1241](tel:+903122021241)

Email: ergun@gazi.edu.tr

Other Email: ergunkasap@gmail.com

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

International Researcher IDs

ScholarID: 1vIFIDUAAAAJ

ORCID: 0000-0002-3640-4053

Publons / Web Of Science ResearcherID: AAA-2211-2020

ScopusID: 7004633293

Yoksis Researcher ID: 1460

Biography

Halen profesör olarak görev yapan Ergün Kasap, ilk orta ve liseyi Keçiören'de Üniversiteyi Ankara üniversitesi Fizik Mühendisliğinde tamamladı. Gazi Üniversitesinde Yüksek Lisans eğitimine başladı, aynı yıl araştırma görevlisi olarak kamu hizmetine başladı. aynı üniversitede infrared spektroskopisi alanında doktorasını bitirdi. 1996 yılında Doçent, 2002 yılında Profesör kadrosuna atandı. 40 dan fazla bilimsel makalesi bulunan Kasap, Gazi Üniversitesinde değişik tarihlerde ana bilim dalı başkanı, bölüm başkan yardımcısı, bölüm başkanı, yüksek okul müdürlüğü, daire başkanlığı ve genel sekreterlik görevlerinde bulundu. Halen Gazi Üniversitesinde Profesör Dr. kadrosunda öğretim üyesi olarak görev yapmaktadır.

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

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Mechanical control of atoms, molecules and ions, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon, Basic Particles and Areas, General Theory of Particles and Fields, Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2002 - Continues
Associate Professor, Gazi University, Fen Fakültesi, Fizik, 1997 - 2002
Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 1992 - 1997
Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1984 - 1992

Academic and Administrative Experience

Head of Department, Gazi University, Fen Fakültesi, Fizik, 2011 - 2015
Member of the Senate, Gazi University, Rektörlük, 2008 - 2014
Gazi University, Uzaktan Eğitim Meslek Yüksekokulu, 2008 - 2014
Gazi University, Rektörlük, 2003 - 2004
Member of the Senate, Gazi University, Rektörlük, 2002 - 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
KUANTUM FİZİĞİ I, Undergraduate, 2017 - 2018
Bilgisayar, Undergraduate, 1986 - 1987

Advising Theses

KASAP E., Design And Control Electronics Systems Of The Beam Position Monitor For Tarla Facility, 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, Doctorate, M.SH.(Student), 2009
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., Ders notlarına Ağ/CD ortamında erişimi sağlayan bir yazılım geliştirme ve yazılıma ilişkin öğretmen görüşleri, Postgraduate, M.KEMAL(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-diamin 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.DURŞUN(Student), 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- IV. **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, no.3-4, pp.243-249, 2010 (SCI-Expanded)
- V. **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 (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, no.1-2, pp.49-54, 2007 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- X. **Infrared spectroscopic study of T-d-type piperazinemetallate(II) tetracyanometallate(II) benzene(1/1) clathrates: $\text{Cd}(\text{C}_4\text{H}_{10}\text{N}_2)\text{Cd}(\text{CN})_4$ center dot C_6H_6 and $\text{Cd}(\text{C}_4\text{H}_{10}\text{N}_2)\text{Hg}(\text{CN})_4$ center dot $1,25\text{C}_6\text{H}_6$**
Kantarci Z., Sertbakan T., Kasap E.
SPECTROSCOPY LETTERS, vol.38, pp.583-594, 2005 (SCI-Expanded)

- XI. **Vibrational spectroscopic studies on the 1,4-diaminobutane-T-d-type clathrates: Cd(dabn)M(CN) (4)center dot 1,5C(6)H(6) (M = Cd or Hg)**
Kantarci Z., Saglam S., Kasap E.
SPECTROSCOPY LETTERS, vol.35, no.6, pp.811-819, 2002 (SCI-Expanded)
- XII. **An infrared spectroscopic study on the Hofmann-diam-type 1,12-diaminododecanemetal(II) tetracyanonickelate(II)-aromatic guest clathrates: M(H₂N(CH₂)(12)NH₂)Ni(CN)(4)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 (SCI-Expanded)
- XIII. **An infrared spectroscopic study on the Hofmann- and en-T-d-type clathrates: Mn(NH₃)(2)Zn(CN) (4).2benzene and Mn(ethylenediamine)Zn(CN)(4).2benzene**
Kantarci Z., Bayrak C., Kasap E.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.39, pp.103-108, 2001 (SCI-Expanded)
- XIV. **Infrared spectroscopic study of the Hofmann-dadn-type clathrates: M(1,10-diaminodecane) Ni(CN) (4) 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 (SCI-Expanded)
- XV. **Investigation of host-guest interactions in the Hofmann-dabn-type clathrates: M(1,4-diaminobutane)Ni(CN)₄·1.5G (M = Co or Ni, G = benzene derivatives)**
Saglam S., Sertbakan T., Kasap E., Kantarci Z.
Journal of Molecular Structure, vol.482-483, pp.69-74, 1999 (SCI-Expanded)
- XVI. **An infrared and Raman spectroscopic study on the Hofmann-T-d-type 1,4-dioxane clathrates: M(NH₃)(2)M'(CN)(4)center dot 2C(4)H(8)O(2) (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 (SCI-Expanded)
- XVII. **Infrared spectroscopic studies of the Hofmann-daon-type clathrates: M(1,8-diaminooctane)Ni(CN) (4)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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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., Ozelik S.
Journal of Molecular Structure, pp.425-430, 1997 (SCI-Expanded)
- XXII. **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 (SCI-Expanded)

XXIII. **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 (SCI-Expanded)

XXIV. **Vibrational spectroscopic studies on the en-Td-type benzene clathrates: M(ethylenediamine)M'(CN)₄center 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 (SCI-Expanded)

XXV. **VIBRATIONAL SPECTROSCOPIC STUDIES ON THE HOFMANN-TD-TYPE CLATHRATES - M(NH₃)(2)M'(CN)₄CENTER-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 (SCI-Expanded)

XXVI. **SUPERSYMMETRIC WKB SOLUTIONS FOR PSEUDOHARMONIC AND MIE-TYPE POTENTIALS**

Kasap E., Gonul B., Simsek M.

CHEMICAL PHYSICS LETTERS, vol.172, no.6, pp.499-502, 1990 (SCI-Expanded)

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)**

Aydın A., Kasap E.

TURKISH JOURNAL OF PHYSICS, vol.41, no.3, pp.269-276, 2017 (Peer-Reviewed Journal)

II. **Ab-initio investigation of electronic and optical properties of InAs_{1-x}P_x alloys**

Mazin O., Kasap E., Korozlu N.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.23, no.2, pp.149-153, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Design, production and tests of button type BPM for tac-tarla IR FEL facility**

Gundogan M., YAVAŞ Ö., AYDIN A., KASAP E., KAYA Ç.

5th International Beam Instrumentation Conference, IBIC 2016, Barcelona, Spain, 11 - 15 September 2016, pp.27-30

II. **The TAC IR FEL oscillator facility project**

KETENOĞLU B., AKSOY A., YAVAŞ Ö., Tural M., Karsli O., ÖZKORUCUKLU S., Arikan P., KASAP E., YILDIZ H., Bilen B., et al.

31st International Free Electron Laser Conference, FEL 2009, Liverpool, United Kingdom, 23 - 28 August 2009, pp.580-582

III. **The status of TAC Infrared Free Electron Laser (IR-FEL) facility**

AKSOY A., Karsli O., KETENOĞLU B., YAVAŞ Ö., Çiftçi A., Nergiz Z., KASAP E.

11th European Particle Accelerator Conference, EPAC 2008, Genoa, Italy, 23 - 27 June 2008, pp.61-63

IV. **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

V. **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

- VI. **Vibrational spectroscopic study on Hofmann Td type Clathrates: Cd(1,8-Diaminooctane)Hg(CN₄).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
- VII. **Vibrational spectroscopic studies on the Td-Type Clathrates : Cd(1,6-Diaminohexane) M(CN)₄C₆H₆ (M=Cd or Hg)**
SAĞLAM S., ÖZBAY A., KASAP E., ÖZÇELİK S.
XXVI European Congress on Molecular Spectroscopy, 1 - 06 October 2002
- VIII. **Infrared spectroscopic study on the Hofmann-dadn-type clathrates: M(1,10-Diaminododecane)Ni(CN)₄.1,5G (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
- IX. **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
- X. **Infrared and Raman Spectroscopic study of Hofmann-type Clathrates: M(1,7-Diaminoheptane)Ni(CN)₄. 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
- XI. **Infrared and Raman Spectroscopic Studies on the Hofmann-type Benzene Clathrates: M(1,7-diaminoheptane) Ni(CN)₄. 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
- XII. **Hofmann-tipi Konak-Konuk Bileşiklerinin İnfrared ve Raman Spektroskopisi Çalışması: M(1,5-Diaminopentan)Ni(CN)₄. Benzen (M=Cd, Ni veya Co)**
KASAP E., ÖZBAY A., ÖZÇELİK S.
1. Ulusal Atom ve Molekül Fizik Sempozyumu, Turkey, 24 - 26 June 1996
- XIII. **Hofmann-tipi Konak-Konuk Bileşiklerinin İnfrared ve Raman Spektroskopisi Çalışması: M(1,7-diaminoheptane) Ni(CN)₄. G.(M= Cd, Ni or Co)**
KASAP E., ÖZBAY A., ÖZÇELİK S.
I. Ulusal Atom ve Molekül Fizik Sempozyumu, Turkey, 24 - 26 June 1996
- XIV. **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 - 2013

KASAP E., Project Supported by Higher Education Institutions, Gazi Üniversitesinde SPSS Paket Programının Kullanımı ve Yaygınlaştırılması, 2003 - 2004

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

Metrics

Publication: 43

Citation (WoS): 354

Citation (Scopus): 366

H-Index (WoS): 12

H-Index (Scopus): 12

Non Academic Experience

Sağlık Bakanlığı

Ministry, Sağlık Bakanlığı, Proje Koordinatörlüğü

Public Corporation, Türk Standartlar Enstitüsü, Petrol Hazırlık Gurubu

TSE