

# Prof. Ayberk YILMAZ

## Personal Information

**Office Phone:** [+90 212 455 5700](tel:+902124555700) Extension: 15406

**Email:** [ayberk@istanbul.edu.tr](mailto:ayberk@istanbul.edu.tr)

**Web:** <http://aves.istanbul.edu.tr/ayberk/cv>

### International Researcher IDs

ORCID: 0000-0003-1060-0483

Publons / Web Of Science ResearcherID: AAD-4240-2020

Yoksis Researcher ID: 175748

## Education Information

2003 - 2007	Doctorate, Istanbul University, Fen Bilimleri Ens., Fizik, Turkey
2000 - 2003	Postgraduate, Istanbul University, Fen Bilimleri Ens., Fizik, Turkey
1995 - 1999	Undergraduate, Istanbul University, Faculty Of Science, Fizik, Turkey

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

2007	Bazı Biyolojik Aktif Molekül Ligandlarının ve Bu Ligandlarla Oluşan Metal Komplekslerinin Titreşimsel Spektrumlarının Deneysel ve Kuantum Kimyasal Yöntemlerle İncelenmesi, Istanbul University, Fen Bilimleri Ens., Fizik, Doctorate
2003	Kiyotorfin Dipeptitinin Sıcaklığa Bağlı FT-IR Spektroskopisi ile İncelenmesi, Istanbul University, Fen Bilimleri Ens., Fizik, Postgraduate

## Research Areas

Physics, High Energy Physics, Artificial Intelligence, Computer Learning and Pattern Recognition, Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Basic Particles and Areas, Natural Sciences

## Academic Titles / Tasks

2018 - Continues	Associate Professor, Istanbul University, Faculty Of Science, Department Of Physics
2018 - 2018	Assistant Professor, Istanbul University, Faculty Of Science, Department Of Physics
2008 - 2018	Assistant Professor, Istanbul University, Faculty Of Science, Department Of Physics
2001 - 2008	Research Assistant, Istanbul University, Faculty Of Science, Department Of Physics

## Academic and Administrative Experience

2011 - 2012	Deputy Head of Department, İstanbul Üniversitesi
-------------	--

## Courses

2023 - 2024	FİZİKTE BİLGİSAYARLA HESAPLAMALAR - NÜMERİK ANALİZ, Associate Degree
2020 - 2021	İLERİ FİZİK UYGULAMALARI II, Undergraduate
2019 - 2020	BİLGİSAYAR II, Undergraduate
2020 - 2021	İLERİ FİZİK UYGULAMALARI I, Undergraduate
2019 - 2020	KİŞİSEL PROJE I, Associate Degree
2018 - 2019, 2017 - 2018	FİZİKTE SAYISAL YÖNTEMLER VE UYGULAMALARI I, Postgraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA II Matematik İ.Ö, Undergraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA (PYTHON), Undergraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA I Matematik Örgün Çift, Undergraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA I Matematik İ.Ö, Undergraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA I Matematik Örgün Tek , Undergraduate
2017 - 2018	FİZİKTE BİLGİSAYARLA HESAPLAMALAR İ.Ö, Undergraduate
2018 - 2019	FİZİKTE MODELLEME VE SİMÜLASYON, Undergraduate
2017 - 2018	BİLGİSAYAR PROGRAMLAMA I Fizik İ.Ö, Undergraduate
2018 - 2019	BİLGİSAYAR PROGRAMLAMA II Matematik Örgün, Undergraduate
2017 - 2018	FİZİKTE BİLGİSAYARLA HESAPLAMALAR Örgün, Undergraduate
2017 - 2018	FİZİKTE SAYISAL YÖNTEMLER VE UYGULAMALARI II, Postgraduate
2017 - 2018	BİLGİSAYAR PROGRAMLAMA II Fizik İ.Ö, Undergraduate
2017 - 2018	BİLGİSAYARDA MATEMATİK UYGULAMALARI Matematik İ.Ö, Undergraduate
2017 - 2018	BİLGİSAYAR PROGRAMLAMA I Matematik İ.Ö, Undergraduate
2017 - 2018	BİLGİSAYARDA MATEMATİK UYGULAMALARI Matematik Örgün, Undergraduate
2017 - 2018	BİLGİSAYAR PROGRAMLAMA I Fizik Örgün, Undergraduate
2017 - 2018	BİLGİSAYAR PROGRAMLAMA I Matematik Örgün , Undergraduate
2012 - 2013	GENEL FİZİK, Undergraduate
2012 - 2013	BİLGİSAYARA GİRİŞ, Undergraduate
2007 - 2008	FİZİK IV, Undergraduate
2006 - 2007	DENEYSEL FİZİKTE BİLGİSAYARLA HESAPLAMALAR, Undergraduate
2007 - 2008	FİZİK 1, Undergraduate
2006 - 2007	BİLGİSAYARDA MATEMATİK UYGULAMALARI, Undergraduate

## Advising Theses

2017	Yılmaz A., Postgraduate, H.BURAK(Student), Elektron-proton çarpıştırıcılarında higgs-üst sektörkuarkların çeşni değiştiren yüksüz akım bağlaşımlarının araştırılması
2017	YILMAZ A., Postgraduate, S.MOHAMED(Student), Bakır-protionamid kompleksinin titreşim spektrumunun deneysel FTIR incelenmesi
2015	YILMAZ A., Doctorate, E.TOSYAL(Student), Bose-Einstein yoğunlaşmasında düzgün doğrusal olmayan davranışların incelenmesi
2011	YILMAZ A., Postgraduate, M.Emin(Student), PROTİYONAMİD MOLEKÜLÜNÜN TİTREŞİM SPEKTRUMLARININ VE YAPILARININ İNCELENMESİ

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

- Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation  
YILMAZ ALAN H., ALMisned G., YILMAZ A., SUSAM L., Ozturk G., KILIÇ G., İLİK E., Tuysuz B., Topuzlar S. E., AKKUŞ B., et al.

Journal of the Australian Ceramic Society, vol.60, no.3, pp.823-832, 2024 (SCI-Expanded)

- II. **KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses**  
YILMAZ ALAN H., YILMAZ A., SUSAM L., Ozturk G., KILIÇ G., İLİK E., Oktik S., AKKUŞ B., ALMisned G., Tekin H.  
Radiation Physics and Chemistry, vol.218, 2024 (SCI-Expanded)
- III. **Exploring the KERMA, mass stopping power and projected range values against heavy-charged particles: A focusing study on Sm, Yb, and Nd reinforced tellurite glass shields**  
YILMAZ A., Almisned G., YILMAZ ALAN H., SUSAM L., Ozturk G., KILIÇ G., Tuysuz B., Topuzlar S. E., AKKUŞ B., Tekin H.  
Radiation Physics and Chemistry, vol.212, 2023 (SCI-Expanded)
- IV. **Tailoring a Behavioral Symmetry on KERMA, Mass Stopping Power and Projected Range Parameters against Heavy-Charged Particles in Zinc-Tellurite Glasses for Nuclear Applications**  
SUSAM L., Yilmaz A., ALMisned G., YILMAZ ALAN H., Ozturk G., KILIÇ G., Tuysuz B., Topuzlar S. E., Akkus B., Ene A., et al.  
SYMMETRY-BASEL, no.6, 2023 (SCI-Expanded)
- V. **Towards a better understanding of detection properties of different types of plastic scintillator crystals using physical detector and MCNPX code**  
YILMAZ A., YILMAZ ALAN H., Susam L., AKKUŞ B., ALMisned G., İlhan T. B., Tekin H.  
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.54, no.12, pp.4671-4678, 2022 (SCI-Expanded)
- VI. **Micro-Raman Spectroscopy and X-ray Diffraction Analyses of the Core and Shell Compartments of an Iron-Rich Fulgurite**  
Karadag A., Kaygisiz E., Nikitin T., Ongen S., ÖĞRÜÇ İLDİZ G., AYSAL N., Yilmaz A., Fausto R.  
MOLECULES, vol.27, no.10, 2022 (SCI-Expanded)
- VII. **Vibrational spectra, force constants and quantum chemical calculations of mu-1,3-azide bridged triphenylphosphine complexes of copper(I) and silver (I)**  
Güven G., Topcu A., Somer M., Afyon S., Yilmaz A., Bolukbasi O.  
VIBRATIONAL SPECTROSCOPY, vol.119, 2022 (SCI-Expanded)
- VIII. **DEEP NEURAL NETWORKS AS A TOOL TO ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT**  
YILMAZ A., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., Samli R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci C. I., EMİRHAN M. E.  
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.84, no.2, pp.187-202, 2022 (SCI-Expanded)
- IX. **Synthesis, structural and DFT studies on thiosemicarbazone-based dioxomolybdenum(VI) complexes with co-ligands**  
İLHAN CEYLAN B., Bolukbasi O., Yilmaz A., DENİZ N. G., ÜLKÜSEVEN B.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.7-8, pp.1063-1081, 2022 (SCI-Expanded)
- X. **ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT BY MEANS OF DIFFERENT MACHINE LEARNING METHODS AND CARL-7A CALCULATIONS**  
YILMAZ A., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., Samli R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci C. I., EMİRHAN M. E.  
ROMANIAN JOURNAL OF PHYSICS, no.1-2, 2022 (SCI-Expanded)
- XI. **Synthesis, spectroscopic characterization and quantum chemical studies of a dioxomolybdenum(VI) complex with an N,S-substituted pyridoxal thiosemicarbazone**  
İlhan-Ceylan B., Bolukbasi O., YILMAZ A., Kaya K., Kurt Y., Ulkuseven B.  
POLYHEDRON, vol.193, 2021 (SCI-Expanded)
- XII. **Cosmic radiation exposure calculations for international and domestic flights departs from Istanbul and Ankara**  
Susam L., Alan H. Y., Yilmaz A., Erol A., İnci C. I., Akinci F. Ç., Akkus B., Demir M., Emirhan M. E., Faydasicok O., et al.  
Radiation Protection Dosimetry, vol.192, no.1, pp.61-68, 2020 (SCI-Expanded)
- XIII. **Solvent effects on UV-Vis and FT-IR spectra of indapamide combined with DFT calculations**

Yalcinkaya O., Yilmaz A., Ceylan B. I.

CHEMICAL PAPERS, vol.74, no.4, pp.1103-1111, 2020 (SCI-Expanded)

- XIV. **A square-pyramidal iron(III) complex obtained from 2-hydroxy-benzophenone-S-allyl-thiosemicarbazone: synthesis, characterization, electrochemistry, quantum chemical studies and antioxidant capability**  
Ceylan B. I., YILMAZ A., Bolukbasi O., Acar E. T., Ozyurek M., Kurt Y., Ulkuseven B.  
JOURNAL OF COORDINATION CHEMISTRY, vol.73, no.1, pp.120-136, 2020 (SCI-Expanded)
- XV. **Raman Spectroscopic and Chemometric Investigation of Lipid-Protein Ratio Contents of Soybean Mutants**  
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., Yilmaz A., Kabuk H. N., Kaygisiz E., AYAN A., Meric S., Fausto R.  
APPLIED SPECTROSCOPY, vol.74, no.1, pp.34-41, 2020 (SCI-Expanded)
- XVI. **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**  
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.  
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.1109-1382, 2019 (SCI-Expanded)
- XVII. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**  
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.  
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (SCI-Expanded)
- XVIII. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**  
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.6, 2019 (SCI-Expanded)
- XIX. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**  
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.  
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (SCI-Expanded)
- XX. **The Saricicek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids**  
Unsalan O., Jenniskens P., Yin Q., Kaygisiz E., Albers J., Clark D. L., Granvik M., DEMİRKOL İ., ERDOĞAN İ. Y., BENGÜ A. Ş., et al.  
METEORITICS & PLANETARY SCIENCE, vol.54, no.5, pp.953-1008, 2019 (SCI-Expanded)
- XXI. **Regular and chaotic solutions in BEC for tilted bichromatical optical lattice**  
Tosyali E., Aydogmus F., Yilmaz A.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.32, no.23, 2018 (SCI-Expanded)
- XXII. **Experimental and theoretical studies on cis-dioxomolybdenum(VI) complexes of ONN-donor thiosemicarbazone**  
Ilhan Ceylan B., Yilmaz A., Bolukbasi Yalcinkaya O., Ulkuseven B.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.5, pp.1285-1329, 2018 (SCI-Expanded)
- XXIII. **Molecular structure and vibrational spectroscopic studies of prothionamide by density functional theory**  
Yilmaz A., Bolukbasi O.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.152, pp.262-271, 2016 (SCI-Expanded)
- XXIV. **FT-IR spectroscopy and multivariate analysis as an auxiliary tool for diagnosis of mental disorders: Bipolar and schizophrenia cases**  
İldiz G. O., ARSLAN M., Unsalan O., ARAUJO-ANDRADE C., KURT E., KARATEPE H. T., YILMAZ A., YALCINKAYA O. B., Herken H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.152, pp.551-556, 2016 (SCI-Expanded)

- XXV. **Micro-Raman, Mid-IR, Far-IR and DFT studies on 2-[4-(4-Fluorobenzamido)phenyl]benzothiazole**  
Unsalan O., Sert Y., Ari H., Simao A., Yilmaz A. İ., Boyukata M., Bolukbasi O., Bolelli K., Yalcin I.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.125, pp.414-421, 2014  
(SCI-Expanded)
- XXVI. **X-ray structure analysis and vibrational spectra of Furosemide**  
Bolukbasi O., Yilmaz A.  
VIBRATIONAL SPECTROSCOPY, vol.62, pp.42-49, 2012 (SCI-Expanded)
- XXVII. **Micro-Raman, FTIR, SEM-EDX and structural analysis of the Canakkale meteorite**  
Unsalan O., Yilmaz A., Bolukbasi O., Öztürk B., Esenoglu H. H., Ildiz G. O., Örnek C.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.92, pp.250-255, 2012  
(SCI-Expanded)
- XXVIII. **FT-Raman, FT-IR and NMR spectra, vibrational assignments and density functional studies of 1,3-bis(benzimidazol-2-yl)-2-thiapropane ligand and its Zn(II) halide complexes**  
Aghatabay N. M., Tulu M., Somer M., Hacıu D., Yilmaz A.  
STRUCTURAL CHEMISTRY, vol.19, no.1, pp.21-32, 2008 (SCI-Expanded)
- XXIX. **An experimental and theoretical vibrational spectra of isoniazide**  
YILMAZ A., Bolukbasi O., Bakiler M.  
Journal of Molecular Structure, vol.872, pp.182-189, 2008 (SCI-Expanded)
- XXX. **An experimental and theoretical study of vibrational spectra of picolinamide, nicotinamide, and isonicotinamide**  
Bakiler M., Bolukbasi O., Yilmaz A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.826, no.1, pp.6-16, 2007 (SCI-Expanded)
- XXXI. **Theoretical and experimental vibrational spectra of kyotorphin dipeptide**  
Yilmaz A., AKYUZ S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.951-960, 2005 (SCI-Expanded)
- XXXII. **Vibrational analysis of isonicotinamide**  
Akalın E., Yilmaz A., Akyüz S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.881-886, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synthesis, Spectroscopic and Quantum Chemical Studies of a Novel Cis-dioxomolybdenum(VI) Thiosemicarbazonato Complex**  
İLHAN CEYLAN B., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÜLKÜSEVEN B.  
International Journal Of Chemical Engineering and Applications, vol.7, pp.195-198, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Current Approaches, Solutions and Practices in Conservation of Cultural Heritage**  
Emre G. (Editor), Yılmaz A. (Editor), Pogliani P. (Editor), Öğrüş Ildız G. (Editor), Fausto R. (Editor)  
Istanbul University, İstanbul, 2024
- II. **Evaluation of the Deterioration Detected in Historical Stone Structures by Termographic Investigations: The Case of Istanbul University Faculty of Letters South Facade**  
Şener E. V., Emre G., Yılmaz A., Öğrüş Ildız G.  
in: Current Approaches, Solutions and Practices in Conservation of Cultural Heritage, Gülder Emre, Ayberk Yılmaz, Paola Pogliani, Gulce Öğrüş Ildız, Rui Fausto, Editor, Istanbul University Press, İstanbul, pp.243-261, 2024
- III. **Imaging Different Types of Materials in Cultural Heritage with Reflectance Transformation Imaging (RTI) Technique**  
Çetinkaya E., Yılmaz A., Emre G., Öğrüş Ildız G., Şener E. V.

- in: Current Approaches, Solutions and Practices in Conservation of Cultural Heritage , Gülder Emre,Ayberk Yılmaz,Paola Pogliani,Gulce Öğrücü İldiz,Rui Fausto, Editor, Istanbul University Press, İstanbul, pp.225-242, 2024
- IV. **Evaluation of the Deterioration Detected in Historical Stone Structures by Termographic Investigations: The Case of Istanbul University Faculty of Letters South Facade**  
Şener E. V., Emre G., Yılmaz A., Öğrücü İldiz G.  
in: Current Solutions and New Paradigms on Conservation of Cultural Heritage, Gülder Emre,Ayberk Yılmaz,Paola Pogliani,Gülce Öğrük İldiz,Rui Fausto, Editor, Istanbul University, İstanbul, pp.120-148, 2024
- V. **Imaging Different Types of Materials in Cultural Heritage with RTI Technique**  
Çetinkaya E., Yılmaz A., Emre G., Öğrücü İldiz G., Şener E. V.  
in: Current Solutions and New Paradigms on Conservation of Cultural Heritage: Approaches and Practices, Gülder Emre,Ayberk Yılmaz,Paola Pogliani,Gülce Öğrücü İldiz,Rui Fausto, Editor, Istanbul University, İstanbul, pp.110-124, 2023
- VI. **The Importance Of Surface-Cleaning In The Conservation And Restoration Of Oil Paintings**  
EMRE G., Yaşayan G., ÜNSALAN O., YILMAZ A.  
in: New Researches New Ideas on Social Science, Sarıtaş E., Editor, Trafford Publishing , Texas, pp.303-346, 2017
- VII. **iş ve kinetik Enerji**  
YILMAZ A.  
in: Üniversiteler için Fizik I, Kartal Sehban, Editor, Nobel Yayıncılık, Ankara, pp.83-106, 2016
- VIII. **Amper, Faraday ve Lentz Kanunları**  
YILMAZ A.  
in: Üniversiteler için Fizik II, Kartal Sehban, Editor, Nobel Yayıncılık, Ankara, pp.189-205, 2016
- IX. **Manyetik Alan ve Kaynakları**  
YILMAZ A.  
in: Üniversiteler için Fizik II, Kartal Sehban, Editor, Nobel Yayıncılık, Ankara, pp.155-187, 2016
- X. **Potansiyel Enerji ve enerjinin korunumu**  
YILMAZ A.  
in: Üniversiteler için Fizik I, Kartal Sehban, Editor, nobel yayıncılık, Ankara, pp.111-136, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Solvent Effect On Infrared Spectra Of Anti-Hypertension Drug Molecules**  
BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A.  
Molecular Spectroscopy and Biological Applications International Workshop, İstanbul, Turkey, 17 - 18 June 2019, pp.5
- II. **Global Optimization and Vibrational Frequencies of Lennard-Jones Cluster Containing 7 Atoms**  
YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O.  
Molecular Spectroscopy and Biological Applications International Workshop, İstanbul, Turkey, 17 - 18 June 2019, pp.6
- III. **Composition Analysis of Soybean Salt-Resistant Mutants by Raman Spectroscopy and Chemometrics**  
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., YILMAZ A., Kabuk H. N., Kaygisiz E., AYAN A., MERİÇ S., Fausto R.  
Analytical and Bionalytical Methods Conference, San-Francisco, Costa Rica, 29 April - 01 May 2019
- IV. **Lipid/Protein Ratio Contents of Soybean Mutants: A Raman Spectroscopic and Chemometrics Investigation**  
ÖĞRÜÇ İLDİZ G., ÇELİK Ö., ATAK Ç., YILMAZ A., Kabuk H., Kaygisiz E., AYAN A., MERİÇ S., Rui F.  
XXXIV EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY, Coimbra, Portugal, 19 - 24 August 2018
- V. **Resonant\_Production\_of\_Scalar\_Leptons\_by\_RPV\_Couplings\_at\_the\_FCC**  
BÖLÜKBAŞI YALÇINKAYA O., KARTAL S., YILMAZ A., Pagliarone C., ÖZDEMİR K., SULTANSOY S., ŞAHİN M.  
FCC week 2017, Berlin, Germany, 29 May - 02 June 2017
- VI. **Synthesis, spectroscopic characterization and DFT studies of Cu(II)-Furosemide Complex'**  
İLHAN CEYLAN B., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., ÜLKÜSEVEN B.

8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.1177

- VII. **Underline event and Background studies in pp collisions at 100 TEV at FCC**  
KARTAL S., ÖZDEMİR K., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., Pagliarone C., Sultansoy s., ŞAHİN M., Halimoğlu G.  
33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017
- VIII. **Pentilentetrazol ile İndüklenen Nöbetlerin Periferik Dokularda Biyomoleküler Yapı Üzerine Etkilerinin Fourier Transform İnfrared Spektroskopi Yöntemi ile Araştırılması ve Oksidatif Stres Markırları ile Karşılaştırılması.**  
ÜZÜM G., Erdem Kuruca S., Kaptan Z., KAPUCU A., AKGÜN DAR K., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., KARTAL S., Kaleler İ., KURUCA D. S.  
43. Ulusal Fizyoloji Kongresi, Denizli, Turkey, 7 - 10 September 2017, pp.82
- IX. **Probing FCNC Couplings of Top-Higgs at LHeC and FCC-eh**  
HACİŞAHİNOĞLU B., TÜRK ÇAKIR İ., ÇAKIR O., YILMAZ A., KARTAL S.  
TFD 33. International Physics Congress, Muğla, Turkey, 06 September 2017, vol.2017, pp.400
- X. **Synthesis, Experimental and Theoretical Characterization of Metal Complexes of Furosemide with Pd (II) and Fe (III) ions**  
İLHAN CEYLAN B., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., Ülküseven B.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, Kopenhag, Denmark, 2 - 05 July 2017, pp.56
- XI. **Resonant Production of Scalar Leptons via RPV Couplings at the FCC**  
Kartal S., Bölükbaşı Yalçinkaya O., Yılmaz A., Özdemir K., Sultansoy S., Şahin M.  
FCC Week 2017, Berlin Germany, Berlin, Germany, 29 May - 02 June 2017, pp.268
- XII. **Experimental and DFT study on Cu(II)-Prothionamide Complex**  
İLHAN CEYLAN B., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., Ülküseven B.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.385
- XIII. **PROBING FCNC COUPLINGS OF TOP-HIGGS AT LHEC AND FCC-EH**  
HACİŞAHİNOĞLU B., TÜRK ÇAKIR İ., ÇAKIR O., YILMAZ A., KARTAL S.  
TURKISH PHYSICAL SOCIETY 33rdINTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
- XIV. **STUDY ON FCNC COUPLINGS OF HIGGS UP SECTOR QUARKS AT EP COLLIDERS**  
KARTAL S., Hacışahinoğlu B., TÜRK ÇAKIR İ., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÇAKIR O.  
TFD 32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016
- XV. **SEARCH ON GAUGE BOSON WITH HIGGS ANOMALOUS COUPLINGS AT EP-COLLIDERS**  
BÖLÜKBAŞI YALÇINKAYA O., ALTINLI M., TÜRK ÇAKIR İ., YILMAZ A., ŞENOL A. k., KARTAL S.  
TFD32 Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.15-16
- XVI. **FT-IR Spectroscopy and Multivariate Analysis as an Auxiliary Tool for Diagnosis of Mental Disorders: Bipolar and Schizophrenia Cases**  
ÖĞRÜÇ İLDİZ G., ÜNSALAN O., ARAUJO-ANDRADE C., ARSLAN M., KARATEPE H. T., YILMAZ A., BÖLÜKBAŞI O., HERKEN H.  
II. International Turkish Congress on Molecular Spectroscopy, Antalya, Turkey, 13 - 18 September 2015, pp.216
- XVII. **'A Comparative Study on Vibrational Spectra of Free Indapamide and its DMSO Solution'**  
BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., İLHAN CEYLAN B.  
II. International Turkish Congress on Molecular Spectroscopy (TURCMOS 2015), Antalya, Turkey, 13 - 18 September 2015, pp.118
- XVIII. **Türkiye Meteor Takip Sistemleri Donanım, Yazılım ve Özellikleri**  
Kaygısız E., ÜNSALAN O., Terzioğlu Z., Temel T., Solmaz A., Topoyan D., Özel M. E., Derman İ., Kocahan Ö., ESENOĞLU H. H., et al.  
UAK2015-19.Ulusal Astronomi Kongresi ve 8.Ulusal Astronomi Öğrenci Kongresi, Ankara, Turkey, 2 - 06 February 2015, pp.1
- XIX. **Synthesis spectroscopic and quantum chemical studies of novel cis dioxomolybdenum VI thiosemicarbazonate complex**

İLHAN CEYLAN B., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÜLKÜSEVEN B.

ICBEE 2014, 15 - 16 September 2014

- XX. **SYNTHETIC, SPECTROSCOPIC AND QUANTUM CHEMICAL STUDIES OF A NOVEL CIS-DIOXOMOLYBDENUM(VI) THIOSEMICARBAZONATE COMPLEX**  
İLHAN CEYLAN B., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÜLKÜSEVEN B.  
6th International Conference on Chemical, Biological and Environmental Engineering' (ICBEE 2014), Paris, France, 15 - 16 September 2014, pp.1-5
- XXI. **Turkish Meteor Surveillance Systems and Network: Impact Craters and Meteorites Database**  
ÜNSALAN O., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A.  
Asteroids, Comets, Meteors, Helsinki, Switzerland, 30 - 04 June 2014, pp.10-11
- XXII. **FT IR Spectroscopic Investigation Of Bipolar Patients Blood Samples**  
ÖĞRÜÇ İLDİZ G., ARSLAN M., ÜNSALAN O., KURT E., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., HERKEN H.  
TURCMOS 2013, 15 - 20 September 2013
- XXIII. **Pollutant identification on the walls of "Valence Aqueduct" (Bozdoğan Kemer, İstanbul) by portable handheld Raman, SEM-EDX, Far-infrared and Mid-infrared techniques.**  
ÜNSALAN O., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., EMRE G.  
International Turkish Congress on Molecular Spectroscopy, İstanbul, Turkey, 11 - 15 June 2013, pp.4
- XXIV. **Far-infrared, Mid-infrared, Raman and SEM-EDX investigations on pigments from palette of old paintings by Feyhaman Duran and comparison with organic pigments**  
ÜNSALAN O., EMRE G., YILMAZ A., Yaşayan G.  
International Turkish Congress on Molecular Spectroscopy, İstanbul, Turkey, 11 - 15 June 2013, pp.3
- XXV. **Structural identification of the Çanakkale meteorite by vibrational spectroscopy**  
ÜNSALAN O., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., Öztürk B., ESENOĞLU H. H., ÖRNEK C. Y.  
POLCMOS-2011, Poland, pp.1
- XXVI. **Micro-Raman, FTIR, SEM-EDX and structural analysis of Çanakkale Meteorite**  
ÜNSALAN O., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÖZTÜRK B., ESENOĞLU H. H., ÖRNEK C. Y.  
Turkish Physical Society 28th International Physical Congress, Muğla, Turkey, pp.164
- XXVII. **Nonlinear analysis of EEG signals using Lyapunov exponents in patients with epilepsy**  
Zeren T., Akıllı M., Yalçın G. Ç., Yılmaz A., Yılmaz H., Kutlu N., Akdeniz K. G.  
The 2nd International Biophysics Congress and Biotechnology at GAP & 21st National Biophysics Congress, Diyarbakır, Turkey, 5 - 09 October 2009, pp.1
- XXVIII. **Epileptik Hastalarda EEG sinyallerinin Kaotik Karakterleri**  
AKILLI M., YILMAZ A., YALÇIN G. Ç., AKDENİZ K. G., KUTLU N., ZEREN T., YILMAZ H.  
TFD 26. Uluslararası Fizik Kongresi, 24 - 27 September 2009
- XXIX. **Chaotic characters of EEG signals in epileptic diseases**  
Akıllı M., Yılmaz A., Yalçın G. Ç., Akdeniz K. G., Kutlu N., Zeren T., Yılmaz H.  
26th International Physics Congress – Turkish Physical Society, Muğla, Turkey, 24 - 27 September 2009, pp.1
- XXX. **Relationship between nonlinear analyses of the epileptic EEG signals recorded from right-handed patients and cerebral lateralization**  
Kutlu N., Zeren T., Yılmaz H., Akıllı M., Yalçın G. Ç., Yılmaz A., Akdeniz K. G.  
V National Neuroscience Congress, Bolu, Turkey, 18 - 22 April 2009, pp.1
- XXXI. **The Intra and Intermolecular Hydrogen Bonding Effects Of Isoniazide**  
BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., BAKİLER M.  
2nd Workshop on Computer Aided Drug Design& Development- Molecular modeling, Ankara, Turkey, 26 - 29 June 2008, pp.80
- XXXII. **Pikolinamid Molekülünün Titreşim Spektrumunun Yoğunluk Fonksiyon Teorisi ile İncelenmesi**  
BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A., BAKİLER M.  
Atom Molekül ve Çekirdek Sistemlerinin Yapıları ve Spektrumları Çalıştayı, Çanakkale, Turkey, 8 - 10 July 2005, pp.46
- XXXIII. **Tetraazidoaurat(III),[AU(N3)4]-,Kompleks Anyonlarının Deneysel ve Teorik Yöntemlerle Titreşimsel Spektrumlarının İncelenmesi**



YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., Somer M.

Atom Molekül ve Çekirdek Sistemlerinin Yapıları ve Spektrumları Çalıştayı, Çanakkale, Turkey, 8 - 10 July 2005, pp.38

**XXXIV. Theoretical and Experimental Vibrational Spectra of Kyotorphin Dipeptide**

YILMAZ A., AKYÜZ S.

VIII.Ulusal Sıvihal Fiziği Sempozyumu, Turkey, 24 - 26 September 2004

**XXXV. Vibrational Analysis of Isonicotinamide**

AKALIN E., YILMAZ A., Akyüz S.

XXVIIth European Congress on Molecular Spectroscopy, Poland, 1 - 04 September 2004, pp.360

**XXXVI. Vibrational Analysis of Hydralazine**

ÖZEL A., Can A., YALÇINKAYA O., YILMAZ A., AKYÜZ S.

XXVII European Congress on Molecular Spectroscopy, Poland, 1 - 04 September 2004, pp.1

## Other Publications

- I. **Turkish meteor surveillance systems and network: Impact craters and meteorites database, Poster Presentation — ACM (Asteroids, Comets and Meteors), Marina Congress Center, Helsinki, June 30th – July 4th 2014**

ÜNSALAN O., Özel M. E., Derman İ., Terzioğlu Z., Kaygısız E., Temel T., Topoyan D., Solmaz A., Kocahan O. Y., ESENOĞLU H. H., et al.

Other, pp.559, 2014

## Supported Projects

2017 - 2018	Resonant Production of Scalar leptons via RPV Couplings at the FCC, Project Supported by Higher Education Institutions
2015 - 2016	SARIÇİÇEK (BİNGÖL) METEORİTLERİNİN, JEOLJİ MÜZESİ KOLEKSİYONU'NA KAZANDIRILMASI, Project Supported by Higher Education Institutions
2015 - 2016	İndapamide Molekülünün Oksomolbden (IV) ile oluşturduğu kompleksin Titreşim Spektrumu ile İncelenmesi, Project Supported by Higher Education Institutions
2015 - 2016	Yeraltı Araştırma Laboratuvarında Karanlık Madde Araştırması, Project Supported by Higher Education Institutions
2009 - 2013	İsoniazid Koordinasyon Bileşiklerinin Spektroskopik Yöntemlerle İncelenmesi ve Onların Biyolojik Aktiviteleri., Project Supported by Higher Education Institutions

## Metrics

Publication: 80

Citation (WoS): 1697

Citation (Scopus): 2031

H-Index (WoS): 10

H-Index (Scopus): 10

## Awards

July 2006

Araştırma, Max Planck Institute for Chemical Physics of Solids

September 2005

BAŞARILI ARAŞTIRMACI BELGESİ, İSTANBUL ÜNİVERSİTESİ ARAŞTIRMA FONU