

# Prof. Olcay BÖLÜKBAŞI YALÇINKAYA

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 123240



## Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Turkey 2003 - 2007

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı, Turkey 2000 - 2003

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1996 - 2000

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, E9, X7 ve X11 küme (cluster) anyonlarından oluşan oligomer yapıların teorik ve deneysel titreşimsel spektroskopi metodları ile incelenmesi (E = Si, Ge, Sn, Pb; X = P, As, Sb) , Istanbul University, Institute of Graduate Studies In Sciences, Atom Ve Molekül Fiziği, 2007

Postgraduate, Nikotinamid Molekülünün Titreşimsel Spektrumunun Deneysel ve Teorik Yöntemlerle İncelenmesi, Istanbul University, Institute of Graduate Studies In Sciences, Atom Ve Molekül Fiziği, 2003

## Research Areas

Physics, Theory of Atoms and Molecules, Interdisciplinary Physics and Related Science and Technology Areas, Basic Particles and Areas, Natural Sciences

## Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2020 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2016 - 2020

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2007 - 2009

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2002 - 2007

## Courses

Elektron Yük Dağılımı Hesaplama Metodları I, Postgraduate, 2018 - 2019, 2017 - 2018  
Bilgisayar Programlama II, Undergraduate, 2017 - 2018  
Düz ve Kısmi Türevli Diferansiyel Denklemler, Undergraduate, 2018 - 2019, 2017 - 2018  
Düz ve Kısmi Türevli Diferansiyel Denklemler, Undergraduate, 2018 - 2019, 2017 - 2018  
İleri Fizik Uygulamaları II, Undergraduate, 2017 - 2018  
Elektron Yük Dağılımı Hesaplama Metodları II, Postgraduate, 2017 - 2018

## Advising Theses

BÖLÜKBAŞI YALÇINKAYA O., Alternatif Kütleçekim Kuramları ve Kütleçekim Dalgaları, Doctorate, H.ÖZER(Student), 2018  
BÖLÜKBAŞI YALÇINKAYA O., STRUCTURAL AND VIBRATIONAL SPECTROSCOPIC ANALYSIS OF RENAL STONES, Doctorate, M.KOCADEMİR(Student), 2017  
BÖLÜKBAŞI YALÇINKAYA O., ELEKTRON-PROTON ÇARPİSTİRİCİLERİNDE HIGGS PARÇACIĞI İLE AYAR BOZON ANORMAL BAĞLASIMLARININ ARASTIRILMASI, Postgraduate, M.ALTINLI(Student), 2017  
BÖLÜKBAŞI YALÇINKAYA O., Bumetanid Molekülünün FT-IR, Mikro Raman ve DFT Çalışmaları, Postgraduate, S.GÜLER(Student), 2012

## Jury Memberships

Doctorate, Asiye Olgun Doktora tez savunma sınavı jüri üyesi, İ.Ü. Fen Fakültesi Fizik Bölümü, October, 2014  
Doctorate, Zeynep Tavukoğlu'nun Doktora tez savunma jürisi, İ.Ü. Fen Fakültesi Fizik Bölümü, October, 2014

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

- I. **Copper(II) and Zinc(II) complexes of new water-soluble Schiff base ligands and their antiproliferative properties towards mesothelioma cell line**  
Gungor O., Gul A., Comertpay S., McKee V., Yalcinkaya O., Kose M.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.459, 2025 (SCI-Expanded)
- II. **Synthesis, characterization, DFT, non-covalent interactions and antioxidant activity of N2O2-type template complexes of Zn(II)-derived from 5-ethoxy-2-hydroxy-acetophenone-S-methylthiosemicarbazone**  
Poladian Q., İlhan Ceylan B., Bolukbasi O., Kurt Y.  
JOURNAL OF COORDINATION CHEMISTRY, 2023 (SCI-Expanded)
- III. **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., Yılmaz A., Bolukbasi O.  
VIBRATIONAL SPECTROSCOPY, vol.119, 2022 (SCI-Expanded)
- IV. **Synthesis, structural and DFT studies on thiosemicarbazone-based dioxomolybdenum(VI) complexes with co-ligands**  
İLHAN CEYLAN B., Bolukbasi O., Yılmaz A., DENİZ N. G., ÜLKÜSEVEN B.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.7-8, pp.1063-1081, 2022 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **Investigation of the Effects of Seizures Induced with Penthylenetrazole on Biomolecular Structure in Peripheral Tissues with Fourier Transform Infrared Spectroscopy Method and Comparison with Oxidative Stress Markers**  
Uzum G., Kuruca S., Kaptan Z., Kapucu A., Dar K., Yilmaz A., Yalcinkaya O., Kartal S., Kaleler I.  
ACTA PHYSIOLOGICA, vol.221, pp.73-74, 2017 (SCI-Expanded)
- XV. **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)
- XVI. **FT-IR spectroscopy and multivariate analysis as an auxiliary tool for diagnosis of mental disorders: Bipolar and schizophrenia cases**  
Ildiz 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)
- XVII. **Comparing vibrational spectra of free bumetanide and its solutions**  
Bolukbasi O.

- SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.134, pp.553-565, 2015 (SCI-Expanded)
- XVIII. **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)
- XIX. **X-ray structure analysis and vibrational spectra of Furosemide**  
Bolukbasi O., Yilmaz A.  
VIBRATIONAL SPECTROSCOPY, vol.62, pp.42-49, 2012 (SCI-Expanded)
- XX. **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)
- XXI. **A new vibrational study of Acetazolamide compound based on normal coordinate analysis and DFT calculations**  
BRANDAN S. A., Eroglu E., LEDESMA A. E., Oltulu O., Yalcinkaya O.  
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.225-231, 2011 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- XXIV. **Computational vibrational study on coordinated nicotinamide**  
Bolukbasi O., AKYUZ S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.744, pp.961-971, 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. **Doğru akım devreleri**  
BÖLÜKBAŞI YALÇINKAYA O.  
in: üniversiteler için Fizik II, Kartal S., Editor, Nobel Yayın Dağıtım, Ankara, pp.117-154, 2016
- II. **Electromagnetic Waves**  
Altıntaş A. A., Yilmaz A., Bölükbaşı Yalçinkaya O., Ünsalan O., Tavukoğlu Şahin Z., Olgun A. T., Kartal S. (Editor)  
in: Physics 2 for Universities, Sehban Kartal, Editor, Nobel Yayın Dağıtım, İstanbul, pp.240-260, 2016
- III. **Inductance and circuit oscillations-Alternating Current**  
Bölükbaşı Yalçinkaya O., Altıntaş A. A., Ünsalan O., Olgun A. T., Tavukoğlu Şahin Z., Kartal S. (Editor)  
in: Physics 2 for Universities, Sehban Kartal, Editor, Nobel Yayınevi, İstanbul, pp.208-239, 2016
- IV. **Momentum ve İtme**  
BÖLÜKBAŞI YALÇINKAYA O.  
in: Üniversiteler için Fizik I, Kartal S., Editor, Nobel Yayın Dağıtım, Ankara, pp.137-159, 2016

- V. **Madde ve Miknatislık**  
BÖLÜKBAŞI YALÇINKAYA O.  
in: Üniversiteler için Fizik II, Kartal S., Editor, Nobel Yayın Dağıtım, Ankara, pp.146-154, 2016
- VI. **Katı Cisimlerin Dönme Hareketi**  
BÖLÜKBAŞI YALÇINKAYA O.  
in: Üniversiteler için Fizik I, Kartal S., Editor, Nobel Yayın Dağıtım, Ankara, pp.162-174, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **The Search of Anomalous Higgs Boson Couplings at the Large Hadron Electron Collider and Future Circular Electron Hadron Collider**  
TÜRK ÇAKIR İ., ALTINLI M., UYSAL Z., ŞENOL A. k., BÖLÜKBAŞI YALÇINKAYA O., YILMAZ A.  
19th International Conference on Computational Physics, Paris, France, 28 - 29 December 2017, pp.519-524
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **Probing Anomalous HVV Couplings at the FCC-eh**  
ALTINLI M., İlkay T. Ç., BÖLÜKBAŞI YALÇINKAYA O., Abdülkadir Ş., KARTAL S., Çakır O.  
FCC Week 2017, Berlin Germany, Berlin, Germany, 29 May - 02 June 2017, pp.275
- XI. **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

- XII. **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
- XIII. **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
- XIV. **'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
- XV. **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
- XVI. **Synthesis spectroscopic and quantum chemical studies of novel cis dioxomolybdenum VI thiosemicarbazone complex**  
İLHAN CEYLAN B., YILMAZ A., BÖLÜKBAŞI YALÇINKAYA O., ÜLKÜSEVEN B.  
ICBEE 2014, 15 - 16 September 2014
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **Spectroscopical investigations on condensed cluster anions [Ge<sup>9</sup>-Ge<sup>9</sup>]<sup>6-</sup>, [Ge<sup>9</sup>=Ge<sup>9</sup>=Ge<sup>9</sup>]<sup>6-</sup>, ?[-(Ge<sup>9</sup>)-]<sup>2-</sup> in Solid and Solvents**  
Kırcalı A., BÖLÜKBAŞI YALÇINKAYA O., Somer M.  
XX.Ulusal Kimya Kongres, Kayseri, Turkey, 4 - 09 September 2006, pp.184
- XXV. **Identification of the Oligomer Ge<sup>9</sup>- Cluster Anions [Ge<sup>9</sup>-Ge<sup>9</sup>]<sup>6-</sup>, [Ge<sup>9</sup>=Ge<sup>9</sup>=Ge<sup>9</sup>=Ge<sup>9</sup>]<sup>8-</sup>, ?[-(Ge<sup>9</sup>)-**

## **]2- in Solids and Solvents by Raman Spectroscopy**

Somer M., BÖLÜKBAŞI YALÇINKAYA O.

The 10 th. European Conference on Solid-State Chemistry, Sheffield, United Kingdom, 29 August - 02 September 2005, pp.250

- XXVI. **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
- XXVII. **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
- XXVIII. **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**

BÖLÜKBAŞI YALÇINKAYA O., Project Supported by Higher Education Institutions, Kükürt İçeren İlaç Moleküllerin Çözücü İçindeki Davranışlarının Spektroskopik Olarak İncelenmesi, 2012 - 2014

BÖLÜKBAŞI YALÇINKAYA O., Project Supported by Higher Education Institutions, HİPERTANSİYON TEDAVİSİNDE KULLANILAN BAZI ETKEN MADDE MOLEKÜLLERİN TİTREŞİMSEL SPEKTRUMLARININ TEORİK VE DENEYSEL YÖNTEMLER İLE İNCELENMESİ, 2009 - 2013

BÖLÜKBAŞI YALÇINKAYA O., Project Supported by Higher Education Institutions, THE INTRA AND INTERMOLECULAR HYDROGEN BONDING EFFECTS OF ISONIAZID, 2008 - 2008

## **Scientific Refereeing**

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, September 2016  
Vibrational Spectroscopy, Journal Indexed in SSCI, May 2016  
Journal of Raman Spectroscopy, Journal Indexed in SSCI, March 2015  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, November 2014

## **Metrics**

Publication: 60  
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H-Index (Scopus): 12

## Congress and Symposium Activities

Molecular Spectroscopy and Biological Applications International Workshop, Attendee, Turkey, 2019

FCC Week 2017, Attendee, Berlin, Germany, 2017

1st FCC Physics Workshop, Attendee, Switzerland, 2017

Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2016

Turcmos 2015, Attendee, Antalya, Turkey, 2015

International TURCMOS (Turkish Congress on Molecular Spectroscopy), Attendee, Istanbul, Turkey, 2013

XI.Ulusal Sıvihal Fiziği Sempozyumu, Attendee, Istanbul, Turkey, 2007

X.Ulusal Sıvihal Fiziği Sempozyumu, Attendee, Istanbul, Turkey, 2006

• 2nd Bilateral Workshop On Solid State and Materials Chemistry- Basics in Real Space Theories, Attendee, Dresden, Germany, 2006

IX.Ulusal Sıvihal Fiziği Sempozyumu, Attendee, Istanbul, Turkey, 2005

• Düzensiz sistemler: Teori ve uygulamalar Çalışma Grubu V.Ulusal Sempozyumu, Attendee, Izmir, Turkey, 2005

• Atom Molekül ve Çekirdek Sistemlerinin Yapıları ve Spektrumları Çalıştayı, Attendee, Çanakkale, Turkey, 2005

• XXVII.European Congress on Molecular Spectroscopy, Attendee, Krakow, Poland, 2004

• VIII.Ulusal Sıvihal Fiziği Sempozyumu, Attendee, Istanbul, Turkey, 2004

## Scholarships

Araştırma, Other International Organizations, 2006 - 2006

## Awards

BÖLÜKBAŞI YALÇINKAYA O., Başarılı Araştırmacı Belgesi, İ.Ü.Rektörlüğü Bilimsel Araştırma Projeleri Birimi, April 2004