

## Res. Asst. Cansu ARMAN

### Personal Information

**Email:** cansu.arman@istanbul.edu.tr

**Web:** <https://avesis.istanbul.edu.tr/cansu.arman>

### International Researcher IDs

ORCID: 0000-0003-1657-9048

Publons / Web Of Science ResearcherID: AAS-8682-2020

Yoksis Researcher ID: 316318

### Education Information

Doctorate, Istanbul University, Faculty Of Science, Department of Physics, Turkey 2019 - Continues

Postgraduate, Istanbul University, Faculty Of Science, Department of Physics, Turkey 2015 - 2018

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, FLUTAMIDE MOLEKÜLÜNÜN YAPISAL ÖZELLİKLERİ ve TİTREŞİMSEL SPEKTRUMLARININ ANALİZİ, Istanbul University, Faculty Of Science, Department of Physics, 2018

### Research Areas

Physics, Atomic and Molecular Physics, Chemistry, Analytical Chemistry, Atomic and Molecular Spectroscopy, Spectroscopical Methods, Physical Chemistry, Computational Chemistry, Quantum Mechanics, Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2020 - Continues

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

- I. The effects of conformation and intermolecular hydrogen bonding on the structure and IR spectra of flutamide; a study based on the matrix isolation technique, ab initio and DFT calculations**  
ARMAN C., BALCI K., AKKAYA Y., Akyuz S., Reaves-Mckee T., Frankamp A., Coates J., Collier W., Ritzhaupt G., Klehm C., et al.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.292, 2023 (SCI-Expanded)
- II. An investigation on the structure and group vibrations of balenine molecule by matrix isolation IR**

### **spectroscopy, DFT and MP2 based calculations**

Balci K., Akkaya Y., Arman C., Goren Y., Akyuz S., Hacker A., Vleet H. V., Ritzhaupt G., Collier W.

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.268, pp.120678-120701, 2022 (SCI-Expanded)

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

- I. **ANALYSIS OF THE STRUCTURAL AND VIBRATIONAL SPECTRAL DATA OF ANTICANCER DRUG FLUTAMIDE ON THE BASIS OF THE DFT AND HARTREE-FOCK CALCULATIONS**  
Arman C., Balci K., Akkaya Y., Akyüz S.  
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.65
- II. **The effects of intermolecular interactions on the vibrational spectra of flutamide molecule: a study based on the experimental matrix FT-IR, FT-Raman, Dispersive Micro-Raman measurements and DFT calculations**  
Balci K., Arman C., Akkaya Y., Akyüz S., Collier W. B., Reaves-Mckee T. R., Frankamp A. H., Coates J. T., Ritzhaupt G.  
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, no.24, pp.459
- III. **A vibrational spectroscopy study on the chemotherapy drug flutamide by DFT calculations**  
Arman C., Balci K., Akkaya Y., Akyüz S., Collier W. B.  
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, no.6, pp.536
- IV. **A study on the effects of electron correlation, basis set incompleteness and superposition effects in modeling of hydrogen bonding interactions between water molecules**  
Arman C.  
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, no.10, pp.39

## **Metrics**

Publication: 6

Citation (Scopus): 1

H-Index (Scopus): 1