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International Researcher IDs

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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