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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, Turkey 2015 - 2020
Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Turkey 2010 - 2013
Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 2005 - 2010

Dissertations

Postgraduate, Microfluidic based differential electrochemical sensors, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, 2013

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Mechatronic Engineering, 2020 - Continues
Lecturer, 2019 - 2020
Research Assistant, Piri Reis University, Faculty Of Arts And Sciences, 2015 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Calculation of the Raman frequencies and thermodynamic quantities at high pressures for the cubic gauche nitrogen (cg-N)**
YURTSEVEN H. H., AKAY SEFER Ö.
Journal of Molecular Structure, vol.1294, 2023 (SCI-Expanded)
- II. **A fabrication and characterization of luffa/PANI/PEO biocomposite nanofibers by means of electrospinning**

- EGE G. K., YÜCE H., AKAY Ö., ÖNER H., GENÇ G.
PIGMENT & RESIN TECHNOLOGY, vol.52, no.1, pp.151-159, 2023 (SCI-Expanded)
- III. A chemosensitive based ammonia gas sensor with PANI/PEO- ZnO nanofiber composites sensing layer
Konuk Ege G., AKAY SEFER Ö., YÜCE H.
Microelectronics International, 2023 (SCI-Expanded)
- IV. Preparation of a sustainable bio-copolymer based on Luffa cylindrica cellulose and poly(ϵ -caprolactone) for bioplastic applications
AKAY Ö., Altımkök Ç., Acık G., YÜCE H., Ege G. K., GENÇ G.
International Journal of Biological Macromolecules, vol.196, pp.98-106, 2022 (SCI-Expanded)
- V. A bio-based and non-toxic polyurethane film derived from Luffa cylindrica cellulose and L-Lysine diisocyanate ethyl ester
AKAY Ö., Altımkök Ç., Acık G., YÜCE H., Ege G. K.
European Polymer Journal, vol.161, 2021 (SCI-Expanded)
- VI. Investigation of vibrational, elastic and dielectric properties of cubic gauche nitrogen (cg-N)
Akay Ö., YURTSEVEN H. H.
OPTIK, vol.236, 2021 (SCI-Expanded)
- VII. Calculation of the inverse relaxation time and the activation energy as a function of temperature for the Raman modes close to the phase transitions in solid nitrogen
YURTSEVEN H. H., Akay Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1226, 2021 (SCI-Expanded)
- VIII. Calculation of the thermodynamic functions from the Raman frequency shifts close to the epsilon - delta(loc) - delta transitions and Pippard relations in nitrogen
Akay Ö., YURTSEVEN H. H.
MODERN PHYSICS LETTERS B, vol.34, no.33, 2020 (SCI-Expanded)
- IX. Raman bandwidths calculated for the librational (a-phase) and internal (8, d loc and d phases) modes in solid N₂ using pseudospin-phonon coupling (PS) and energy-fluctuation (EF) models
YURTSEVEN H. H., Akay Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1217, 2020 (SCI-Expanded)
- X. Calculation of the Raman frequency and linewidth of vibrons using anharmonic self energy model for the epsilon , delta(loc) and delta phases in solid nitrogen
Akay Ö., YURTSEVEN H. H.
OPTIK, vol.219, 2020 (SCI-Expanded)
- XI. CALCULATION OF THE THERMODYNAMIC FUNCTIONS USING A MEAN FIELD MODEL FOR THE FLUID-SOLID TRANSITION IN NITROGEN
Akay Ö., YURTSEVEN H. H.
REVUE ROUMAINE DE CHIMIE, vol.65, no.5, pp.425-432, 2020 (SCI-Expanded)
- XII. Liquid-(Solid plus Liquid) Transitions in a Two-Component System of (CH₃)CCl₃ + CCl₄
YURTSEVEN H. H., Akay Ö.
JOURNAL OF SOLUTION CHEMISTRY, vol.49, no.2, pp.195-209, 2020 (SCI-Expanded)
- XIII. CALCULATION OF THE PHASE DIAGRAMS FOR THE FLUID-SOLID AND SOLID-SOLID (delta-delta(loc)-epsilon) TRANSITIONS IN MOLECULAR NITROGEN BY USING MEAN FIELD MODEL
YURTSEVEN H. H., Akay Ö.
REVUE ROUMAINE DE CHIMIE, vol.64, no.3, pp.249-258, 2019 (SCI-Expanded)
- XIV. Calculation of the Raman and IR frequencies from the volume data at high pressures in N₂
Akay Ö., YURTSEVEN H. H.
OPTIK, vol.160, pp.227-233, 2018 (SCI-Expanded)
- XV. Analysis of the Raman Frequency Shifts for the Lattice Modes and Vibrons Related to the Thermodynamic Quantities in the eta Phase of Solid Nitrogen
YURTSEVEN H. H., Akay Ö.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.32, no.4, pp.383-389, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. Calculation of the Thermodynamic Quantities for Cubic Gauche Nitrogen (cg-N)

Yurtseven H., Akay Ö.

INTERNATIONAL JOURNAL OF THERMODYNAMICS, vol.25, no.3, pp.32-39, 2022 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. The characterization of electrospun PANI/PEO nanofibers at different electrospinning conditions at room temperature

Ege G. K., Akay Ö., Yüce H.

International conference on engineering technologies, Konya, Turkey, 17 - 19 November 2022, pp.1-4

II. PREPARATION AND CHARACTERIZATION OF LNF/PANI/PEO BIO-COMPOSITE BASED ON LUCCA CYLINDRICA

Akay Ö., Ege G. K., Yüce H.

25. Sıvi Hal Sempozyumu, İstanbul, Turkey, 27 May 2022, pp.18

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