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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., Altınkök Ç., Acik 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., Altınkök Ç., Acik 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 (α -phase) and internal (δ , δ loc and δ 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 N-2**
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. **PRODUCTION OF CONDUCTIVE BIOPOLYMER NANOFIBERS BASED ON NATURAL FIBERS**
Akay Sefer Ö.
ASES VIII. INTERNATIONAL HEALTH ENGINEERING AND SCIENCES CONFERENCE, İzmir, Turkey, 13 April - 14 June 2024, pp.189-190
- II. **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
- III. **PREPARATION AND CHARACTERIZATION OF LNF/PANI/PEO BIO-COMPOSITE BASED ON LUFFA CYLINDRICA**
Akay Ö., Ege G. K., Yüce H.
25. Sıvı Hal Sempozyumu, İstanbul, Turkey, 27 May 2022, pp.18

Metrics

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