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Education Information

Undergraduate, Yıldız Teknik Üniversitesi, Fizik , Turkey Continues

Doctorate, University Of East Anglia, United Kingdom 1992 - 1997

Yıldız Teknik Üniversitesi, Turkey 1988 - 1992

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Natural Sciences

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Influence of repeating sequence on structural and thermal stability of crystalline domain of bombyx mori silk fibroin**
Aksakal B., Akdere Ü., Günay S. D. , Çağın T., Taşseven Ç.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, pp.125356-125364, 2020 (Journal Indexed in SCI Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Simulation of Pullout Test on Crystallite Segment of Antiparallel beta-Sheets of Bombyx Mori Silk Fibroin**
Uğuz C., AKDERE Ü., GÜNAY S. D. , TAŞSEVEN Ç.
ICSEEC: SUSTAINABLE ENERGY AND ENERGY CALCULATIONS, Muğla, Turkey, 12 April 2019, pp.17
- II. **Static Structure and Ionic Diffusion of Liquid Magnesium Nitrate**
AKDERE Ü., Aydın Y., GÜNAY S. D. , TAŞSEVEN Ç.
ICSEEC: SUSTAINABLE ENERGY AND ENERGY CALCULATIONS, Muğla, Turkey, 12 April 2019, pp.49
- III. **Hydrogen Bond Analysis of Bombyx Mori Silk Fibroin byMD Simulation at Room Temperature**
AKDERE Ü., GÜNAY S. D. , TAŞSEVEN Ç.
Turkish Physical Society 34rd International Physics Congress, 5 - 09 September 2018
- IV. **Temperature dependence of mechanical properties of anti-parallel beta sheets with bombyx-mori silk nano structures along chain direction**
AKDERE Ü., GÜNAY S. D. , AKSAKAL B., Çağın T., TAŞSEVEN Ç.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017
- V. **Structural phase transition of Mg3As2**
AKDERE Ü., GÜNAY S. D. , TAŞSEVEN Ç.
Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017
- VI. **Polar/Antipolar - Antiparallel beta sheets of bombyx mori silk nano crystallites solvated in different type of water**
Uğuz C., TAŞSEVEN Ç., GÜNAY S. D. , AKDERE Ü.

JAPMED 10, İzmir, Turkey, 4 - 08 July 2017

- VII. **Molybdenum Doped CdTe Sigma3(111) Grain Boundary**
ÇALIŞKAN M., Öztoprak A., GÜNAY S. D., TAŞSEVEN Ç., Çağın T.
The Tenth Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'10), İzmir, Turkey, 4 - 08 July 2017, pp.75
- VIII. **Low- and high- temperature structural analysis of magnesium antimonide**
GÜNAY S. D., AKDERE Ü., TAŞSEVEN Ç.
1st International Conference on Energy and Thermal Engineering, ICTE 2017, İstanbul, Turkey, 25 - 28 April 2017
- IX. **Analysis of Mechanical Behaviour of Anti Parallel Beta Sheets with Bombyx Mori Silk Nano Structures Along Intersheet Direction**
AKDERE Ü., GÜNAY S. D., AKSAKAL B., ÇAĞIN T., TAŞSEVEN Ç.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- X. **Analysis of Mechanical Behavior of Anti Parallel Beta Sheets with Bombyx Mori Silk Nano Structures Along Inter Sheet Direction**
Akdere Ü., Günay S. D., Aksakal B., Çağın T., Taşseven Ç.
Turkish Physical Society 32th International Physics Conference, Muğla, Turkey, 6 - 09 September 2016
- XI. **Density functional theory study of structural and electro optical activities of grain boundaries in bi crystal CdTe**
TAŞSEVEN Ç., ÇALIŞKAN M., GÜNAY S. D., ÇAGIN T.
Molecular Interactions & Dynamics Gordon Research Conference, United States Of America, 10 - 15 July 2016
- XII. **Calculation of grain boundary energies of gallium arsenide with first principle study**
GÜNAY S. D., Taşseven Ç.
IMSTEC'16 - Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı, 6 - 08 April 2016
- XIII. **Thermophysical properties of anti-parallel β -sheets with bombyx mori silk nano structures [Gly-Ser-Gly-Ala-Gly-Ala]_n and [Gly-Ala]_n**
AKSAKAL B., GÜNAY Ş., AKDERE Ü., Çağın T., TAŞSEVEN Ç.
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- XIV. **Effect of Cu atoms on the band structure of CdTe**
ÇALIŞKAN M., Öztoprak A., GÜNAY S. D., Çağın T., TAŞSEVEN Ç.
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- XV. **Thermomechanical properties of anti-parallel β -sheets with Bombyx mori silk nano structures [Gly-Ser-Gly-Ala-Gly-Ala]_n and [Gly-Ala]_n**
GÜNAY S. D., AKDERE Ü., AKSAKAL B., Çağın T., TAŞSEVEN Ç.
9th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nano Materials, 2015, Sofija, Bulgaria, 5 - 08 July 2015, vol.856, pp.74-77
- XVI. **Thermomechanical properties of anti parallel sheets with Bombyx mori silk nano structures Gly Ser Gly Ala Gly Ala n and Gly Ala n**
Günay S. D., Akdere Ü., Aksakal B., Çağın T., Taşseven Ç.
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- XVII. **Thermophysical properties of anti parallel sheets with Bombyx mori silk nano structures Gly Ser Gly Ala Gly Ala n and Gly Ala n**
Aksakal B., Günay S. D., Akdere Ü., Çağın T., Taşseven Ç.
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- XVIII. **STABILITY AND MECHANICAL PROPERTIES OF $\{A(x)A'((1-x))\}_{ByB'((1-y))\}_0-3$ CERAMICS**
Akgenc B., TAŞSEVEN Ç., Cagin T.

Proceedings of the TMS Middle East Mediterranean Materials Congress on Energy and Infrastructure Systems (MEMA 2015), Doha, Qatar, 11 - 14 January 2015, pp.423-432

- XIX. **NPT simulation and hypernetted-chain calculations of SrCl₂**
Akgeç B., AKDERE Ü., GÜNAY Ş., TAŞSEVEN Ç.
3rd International Advances in Applied Physics and Materials Science Congress, APMAS 2013, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.15-18
- XX. **Thermophysical Properties of alpha-Pu₂O₃: A New Potential Model**
GÜNAY Ş., Akgeç B., AKDERE Ü., TAŞSEVEN Ç.
3rd International Congress on Advances in Applied Physics and Materials Science, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.208-211
- XXI. **HNC Calculations of Thermodynamic Properties of Molten AgI**
GÜNAY S. D. , Çalışkan M., Akdere Ü., Taşseven Ç.
Turkish Physical Society 28th International Physics Conference, 01 September 2011
- XXII. **Molecular dynamics simulation of thermal properties of Ag₃SI**
Öztek H., KAVANOZ H. B. , AKDERE Ü., YILMAZ M., Taşseven Ç.
7th International Conference of the Balkan Physical Union, Alexandroupoli, Greece, 9 - 13 September 2009, vol.1203, pp.252-254
- XXIII. **A Molecular Dynamics Simulation of Premelting Effect in LiO₂**
KAYADİBİ F., GÜNAY S. D. , TAŞSEVEN Ç.
5th Nanoscience and Nanotechnology Conference (NanoTR5), Eskisehir, Turkey, Turkey, 8 - 12 June 2009
- XXIV. **Static Structure and Ionic Transport in Molten NiTe and NiTe₂**
GÜNAY S. D. , Akdere Ü., Taşseven Ç.
Turkish Physical Society 25th International Physics Conference, 25 - 29 August 2008
- XXV. **Transport properties of uranium dioxide by molecular dynamics simulation**
Gunay S. D. , Akdere U., Kavanoz B., Taşseven Ç.
International Conference on Computational Methods in Science and Engineering, Corfu, Greece, 25 - 30 September 2007, vol.2, pp.1212-1215
- XXVI. **The Static Structure of Liquid Semiconductors NiTe and NiTe₂ Preliminary Results**
GÜNAY S. D. , AKDERE Ü., KOSAVALI F., TAŞSEVEN Ç.
AIP Conference Proceedings, 22 - 26 August 2006, vol.899, pp.616
- XXVII. **Equilibrium Molecular Dynamics Calculations of The Transport Properties of Molten Thallium Halides**
GÜNAY S. D. , AKDERE Ü., KOSAVALI F., TAŞSEVEN Ç.
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- XXVIII. **The Static Structure of Liquid Semiconductors NiTe and NiTe₂: Preliminary Results**
GÜNAY S. D. , Akdere Ü., Kosovalı F., Taşseven Ç.
01 August 2006, vol.899, pp.616

Supported Projects

TAŞSEVEN Ç., UĞUZ C., Project Supported by Higher Education Institutions, Bombyx Mori ipek fibroin kristalit biriminin mekaniksel özelliklerinin moleküler dinamik simülasyonu, 2016 - 2019

Aksakal B., Günay S. D. , Taşseven Ç., Akdere Ü., TUBITAK Project, Yüksek performans uygulamaları için Bombyx Mori ipek fibroin kristalit biriminin termo mekaniksel özelliklerinin moleküler dinamik simülasyonu, 2016 - 2018

TAŞSEVEN Ç., ÇALIŞKAN M., Project Supported by Higher Education Institutions, Su İçerisindeki Bombyx Mori İpek Fibroinin Kristal Birimin Termo-Mekaniksel Özelliklerinin Moleküler Dinamik Simülasyon Yöntemi ile İncelenmesi, 2015 - 2018

Çalışkan M., Günay S. D. , Taşseven Ç., TUBITAK Project, Güneş Pillerinde Kontak Metallerinin Absorptör CdTe nin Yapısal ve Elektro Optik Aktiviteleri Üzerine Yoğunluk Fonksiyonel Teori Çalışması, 2014 - 2017

Citations

Total Citations (WOS):105

h-index (WOS):5