Prof. Çetin TAŞSEVEN

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Biography

Çetin Taşseven is a Professor in the Physics Department at the Yıldız Technical University. He received his bachelor's and master's degrees in physics from the Yıldız Technical University, and started his academic career as research assistant in a research group working on Liquid State Theories. He completed his PhD on the Theory of Ionic Liquids at University of East Anglia. His research interest focus on theoretical and computational material science particularly on the development of interatomic potentials, Integral Equation Theories and Molecular Dynamics Simulation of ionic systems.

Education Information

Doctorate, University of East Anglia, Department of Physics, England 1992 - 1997
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 1988 - 1992
Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 1984 - 1988

Foreign Languages

English, C1 Advanced

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, 2000 - 2007
Assistant Professor, 1998 - 2000
Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1989 - 1997

Courses

Physics II (Electricity and Magnetism), Undergraduate, 2022 - 2023

Thermodynamics, Undergraduate, 2022 - 2023
Classical Electromagnetic Theory I, Undergraduate, 2021 - 2022
Statistical Physics, Undergraduate, 2021 - 2022
Differential Equations, Undergraduate, 2022 - 2023
Physics I (Classical Mechanics), Undergraduate, 2022 - 2023
Partial Differential Equations, Undergraduate, 2021 - 2022
Electromagnetic Theory I, Postgraduate, 2020 - 2021

Advising Theses

Taşseven Ç., Sıvı metal yakıtlı piller için aday elektrolitlerin moleküler dinamik simülasyon yöntemi ile incelenmesi, Doctorate, Y.AYDIN(Student), 2022
Taşseven Ç., Bombyx mori ipek böceği ipeğinin kristalit biriminin mekaniksel özelliklerinin simülasyonu, Postgraduate, C.UĞUZ(Student), 2018
Taşseven Ç., A study of the relation of piezoelectric properties and nano structures through methods in computational physics, Doctorate, B.AKGENÇ(Student), 2016
Taşseven Ç., Yoğunluk fonksiyonel teoremi ile sıvı hal teorilerinin elde edilmesi, Postgraduate, S.VELİOĞLU(Student), 2010
Taşseven Ç., Mg3Bi2'un katı ve sıvı fazlarda moleküler dinamik simülasyonu, Postgraduate, F.KAYADİBİ(Student), 2009
Taşseven Ç., Uranyum dioksit'in moleküler dinamik simülasyonu, Doctorate, S.DÜNDAR(Student), 2009
Taşseven Ç., Sıvı NiTe ve NiTe2 yarı iletkenlerinin statik yapısı, Postgraduate, F.KOSOVALI(Student), 2007
Taşseven Ç., UO2 ve UCL3'ün sıvı yapısı ve halojenür tuzlarda donma, Doctorate, Ü.AKDERE(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Molecular dynamics modelling of the stress–strain response of β-sheet nanocrystals**
TAŞSEVEN Ç., AKDERE Ü., GÜNAY S. D., AKSAKAL B.
Computational Materials Science, vol.246, 2025 (SCI-Expanded)
II. **Molecular dynamics and integral equation study of the structure and dynamics of solid and liquid magnesium phosphide**
Aydın Y., GÜNAY S. D., AKDERE Ü., TAŞSEVEN Ç.
Molecular Simulation, 2023 (SCI-Expanded)
III. **Insight into the structural, thermal and ion transport properties of solid and liquid Mg3N2: a model potential and NPT molecular dynamics simulation**
Aydin Y., Gunay S. D., AKDERE Ü., TAŞSEVEN Ç.
MOLECULAR SIMULATION, vol.48, no.7, pp.602-609, 2022 (SCI-Expanded)
IV. **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 (SCI-Expanded)
V. **Ordering and diffusion in liquid magnesium antimonide (Mg 3 Sb 2) from hypernetted-chain theory and molecular dynamics simulation**
AKDERE Ü., GÜNAY S. D., TAŞSEVEN Ç.
Ionics, vol.25, no.6, pp.2711-2717, 2019 (SCI-Expanded)
VI. **First - principles calculations on stability and mechanical properties of various ABO(3) and their alloys**
Akgenc B., Kinaci A., TAŞSEVEN Ç., Cagin T.
MATERIALS CHEMISTRY AND PHYSICS, vol.205, pp.315-324, 2018 (SCI-Expanded)
VII. **Modeling Superionic Behavior of Plutonium Dioxide**

GÜNAY S. D., AKGENC B., TAŞSEVEN Ç.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.35, no.10, pp.999-1004, 2016 (SCI-Expanded)

VIII. **Studying Static, Dynamic and Transport Properties of Mg3Bi2**
Kayadibi F., GÜNAY S. D., TAŞSEVEN Ç.
ACTA PHYSICA POLONICA A, vol.128, no.3, pp.440-446, 2015 (SCI-Expanded)

IX. **Hypernetted chain calculations of molten uranium dioxide: Comparison of rigid ion potentials**
GÜNAY S. D., AKDERE Ü., TAŞSEVEN Ç.
JOURNAL OF MOLECULAR LIQUIDS, vol.173, pp.124-129, 2012 (SCI-Expanded)

X. **THERMOPHYSICAL PROPERTIES OF URANIUM DIOXIDE: A MOLECULAR DYNAMICS STUDY OF SOLID AND LIQUID PHASES OF STOICHIOMETRIC UO2**
GÜNAY S. D., KAVANOZ H. B., AKDERE Ü., TAŞSEVEN Ç.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.25, pp.3211-3223, 2011 (SCI-Expanded)

XI. **MOLECULAR DYNAMICS SIMULATION OF UO2: AN ALTERNATIVE RIGID ION MODEL POTENTIAL**
GÜNAY S. D., AKDERE Ü., KAVANOZ H. B., TAŞSEVEN Ç.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.25, no.9, pp.1201-1210, 2011 (SCI-Expanded)

XII. **Freezing in halide salts**
AKDERE Ü., Yılmaz M., Kavanoz H. B., Taşseven Ç.
ACTA PHYSICA POLONICA A, vol.113, no.6, pp.1659-1670, 2008 (SCI-Expanded)

XIII. **Static structure of a group of trivalent molten salts: An alternative rigid ion model potential**
Yilmaz M., Gurbuz H., Kavanoz H., Tasseven C., Silbert M.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.20, pp.421-428, 2001 (SCI-Expanded)

XIV. **The bridge functions of molten salts**
Tasseven Ç., Gonzalez L., Silbert M., Alcaraz O., Trullas J.
JOURNAL OF CHEMICAL PHYSICS, vol.115, no.10, pp.4676-4680, 2001 (SCI-Expanded)

XV. **Static Structure of a Group of Trivalent Molten Salts**
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XVII. **Integral equations calculations and computer simulations of the static structure and ionic transport in molten nickel halides**
Tasseven Ç., Alcaraz O., Trullas J., Silbert M.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.17, no.3, pp.163-176, 1998 (SCI-Expanded)

XVIII. **Integral equation calculations and computer simulations of the static structure and ionic transport in molten thallium halides**
Tasseven Ç., Alcaraz O., Trullas J., Silbert M., Giro A.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.9, no.50, pp.11061-11075, 1997 (SCI-Expanded)

XIX. **Static structure and ionic transport in molten AgBr and AgCl**
Tasseven Ç., Trullas J., Alcaraz O., Silbert M., Giro A.
JOURNAL OF CHEMICAL PHYSICS, vol.106, no.17, pp.7286-7294, 1997 (SCI-Expanded)

XX. **Static dielectric function of a model classical ionic fluid**
Gurbuz H., Tasseven Ç., Silbert M.
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.32, no.3, pp.169-176, 1996 (SCI-Expanded)

XXI. **THE STATIC DIELECTRIC FUNCTION OF THE MOLTEN COPPER HALIDES**
TASSEVEN Ç., SILBERT M., TRULLAS J.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.7, no.47, pp.8877-8881, 1995 (SCI-Expanded)

Articles Published in Other Journals

I. **Thermomechanical Properties of Anti-Parallel β-Sheets with Bombyx mori Silk Nanostructures [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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II. **Thermophysical Properties of Anti-Parallel β-Sheets with Bombyx mori Silk Nanostructures [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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IV. **Classical Molecular Dynamics Simulation of Mg3Bi2 at Solid and Liquid Phase**
GÜNAY S. D., Kayadibi F., Akdere Ü., Taşseven Ç.
Balkan Physics Letters, vol.15, pp.151013, 2009 (Peer-Reviewed Journal)

V. **The Structure and Ionic Transport of Liquid Semiconductor NiTe**
Akdere Ü., Günay S. D., Kavanoz H. B., Taşseven Ç.
Balkan Physics Letters, vol.15, pp.1-7, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

III. **Hydogen Bond Analysis of Bombyx Mori Silk Fibroin by MD Simulation at Room Temperature**
Akdere Ü., Günay S. D., Taşseven Ç.
Turkish Physical Society 34 International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.474

IV. **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

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. **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

VII. **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

VIII. **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

IX. **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

X. **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

XI. **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.
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XII. **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

XIII. **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

XIV. **Effect of Cu atoms on the band structure of CdTe**
ÇALIŞKAN M., Öztoprak A., GÜNAY S. D., 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.153-156

XV. **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.
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.70-73

XVI. **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

XVII. **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.
The Ninth Japanese -Mediterranean Workshop On Applied Electromagnetic Engineering For Magnetic,Superconducting, Multifunctional And Nanomaterials (JAPMED'9), Sofija, Bulgaria, 5 - 08 July 2015, pp.51-52

XVIII. **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.
The Ninth Japanese -Mediterranean Workshop On Applied Electromagnetic Engineering For Magnetic,Superconducting, Multifunctional And Nanomaterials (JAPMED'9), Sofija, Bulgaria, 5 - 08 July 2015, pp.25-26

XIX. **STABILITY AND MECHANICAL PROPERTIES OF {A(x)A '((1-x))}{ByB '((1-y))}O-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

XX. **Thermophysical Properties of alpha-Pu2O3: A New Potential Model**
GÜNAY Ş., Akgenc 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. **NPT simulation and hypernetted-chain calculations of SrCl 2**
Akgenç 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

XXII. **Liquid State Theory of Plutonium Dioxide: Hypernetted Chain Approximation**
Akdere Ü., Akgenç B., Taşseven Ç., Günay S. D.
Turkish Physical Society 29 International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.628

XXIII. **Temperature Dependence of Ionic Diffusion of Thorium Dioxide**
Akdere Ü., Akgenç B., Günay S. D., Taşseven Ç.
Turkish Physical Society 29 International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.156

XXIV. **Studying Superionic Phase Transition of Plutonium Dioxide From Molecular Dynamics Simulation**
Akdere Ü., Günay S. D., Akgenç B., Taşseven Ç.
Turkish Physical Society 29 International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.578

XXV. **Thermophysical Properties of AgBr and AgCl from Molecular Dynamics Simulation**
Akdere Ü., Günay S. D., Taşseven Ç.
Turkish Physical Society 29 International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.524

XXVI. **HNC Calculations of Thermodynamic Properties of Molten AgI**
Günay S. D., Çalışkan M., Akdere Ü., Taşseven Ç.
Turkish Physical Society 28th International Physics Conference, 6 - 09 September 2011

XXVII. **Hypernetted Chain Theory of Liquid GeO2: Preliminary Results**
Akdere Ü., Günay S. D., Taşseven Ç.
Turkish Physical Society 28 International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.648

XXVIII. **HNC Calculations of Thermodynamic Properties of Molten AgI**
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XXIX. **Molecular dynamics simulation of thermal properties of Ag3SI**
Öztek H., KAVANOZ H. B., AKDERE Ü., YILMAZ M., Tašseven Ç.
7th International Conference of the Balkan Physical Union, Alexandroupoli, Greece, 9 - 13 September 2009, vol.1203, pp.252-254

XXX. **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

XXXI. **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

XXXII. **Classical Molecular Dynamics Simulation of Mg3Bi2 at Solid and Liquid Phase**
Akdere Ü., Kayadibi F., Günay S. D., Taşseven Ç.
Turkish Physical Society 25th International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, pp.176

XXXIII. **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

XXXIV. **The Static Structure of Liquid Semiconductors NiTe and NiTe2 Preliminary Results**
GÜNAY S. D., AKDERE Ü., KOSAVALI F., TAŞSEVEN Ç.
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XXXV. **Equilibrium Molecular Dynamics Calculations of The Transport Properties of Molten Thallium Halides**
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XXXVII. **Hypernetted Chain Theory and Molecular Dynamic Simulation of Static Structure and IonicTransport in Molten UO2 and UCl3**
Günay S. D., Akdere Ü., Kavanoz H. B., Yılmaz M., Taşseven Ç.
Turkish Physical Society 23th Conference, Muğla, Turkey, 13 - 16 September 2005

XXXVIII. **Static Criteria for Freezing of Liquid Halide Salts**
Akdere Ü., Yılmaz M., Kavanoz H. B., Taşseven Ç.
Turkish Physical Society 23 International Physics Congress, Muğla, Turkey, 13 - 16 September 2005, pp.641

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XL. **İyonik Sıvıların Statik Dielektrik Fonksiyonu**
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XLI. **Erimiş UCl3 ün Yapısal Özelliklerinin Kurumsal Tayini**
Akdere Ü., Kavanoz H. B., Yılmaz M., Taşseven Ç.
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XLII. **The Static and Thermodynamic Properties of Molten UO2 and UCl3 (Preliminary Results)**
Akdere Ü., Taşseven Ç., Kavanoz H. B.
The Fifth International Conference on Chemical Physics, İstanbul, Turkey, 31 October - 01 November 2002, pp.1-2

XLIII. **Static Structure of 3:1 Molten Salts**
Yılmaz M., Gürbüz H. H., Taşseven Ç., Silbert M.
4th Liquid Matter Conference, Granada, Spain, 3 - 07 July 1999, vol.23, pp.24-0

XLIV. **Bridge Functions of Molten Salts from Molecular Dynamic Simulations**
Taşseven Ç., Kavanoz H. B., Yılmaz M.
Second International Kaş-School on Liquid State Physics, Antalya, Turkey, 15 - 25 September 1998, pp.20-24

XLV. **Integral Equations Calculations of the Static Structure of Molten MX3 Systems**
Yılmaz M., Kavanoz H. B., Taşseven Ç.
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Supported Projects

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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

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

Metrics

Publication: 74
Citation (WoS): 128
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