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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6113-2018

ScopusID: 57188841878

Yoksis Researcher ID: 268809

Education Information

Doctorate, Sakarya University, Institute Of Science, Fizik, Turkey 2015 - Continues

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Bilişim Sistemleri Mühendisliği, Turkey 2015 - 2019

Postgraduate, Sakarya University, Institute Of Science, Fizik, Turkey 2012 - 2014

Undergraduate, Kirşehir Ahi Evran University, Faculty Of Arts And Sciences, Turkey 2008 - 2012

Dissertations

Postgraduate, KMgF₃ kristalinin yapısal, elastik, elektronik ve titreşim özelliklerinin incelenmesi, Sakarya University, Institute Of Science, Fizik, 2014

Research Areas

Theory of Atoms and Molecules, Atomic and Molecular Interactions, Biophysics and Medical Physics, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Mechanical and Acoustic Properties of Condensed Matter, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures

Academic Titles / Tasks

Research Assistant, Kocaeli University, Teknoloji Fakültesi, Bilişim Sistemleri Mühendisliği, 2017 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Quantum Simulation of the Silicene and Germanene for Sensing and Sequencing of DNA/RNA Nucleobases
GÜREL H. H., SALMANKURT B.
BIOSENSORS-BASEL, vol.11, no.3, 2021 (SCI-Expanded)

- II. **Interaction between Functionalized Graphene with Ti/C and Histidine/Leucine: Effects of Charging**
GÜREL H. H., SALMANKURT B.
PHYSICS OF THE SOLID STATE, vol.62, no.12, pp.2474-2481, 2020 (SCI-Expanded)
- III. **Computational aspects of nanostructures: PW vs AO calculations**
SALMANKURT B., GÜREL H. H.
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, 2019 (SCI-Expanded)
- IV. **Binding mechanisms of DNA/RNA nucleobases adsorbed on graphene under charging: first-principles van der Waals study**
GÜREL H. H., Salmankurt B.
MATERIALS RESEARCH EXPRESS, vol.4, no.6, 2017 (SCI-Expanded)
- V. **First-principles study of structural, mechanical, lattice dynamical and thermal properties of nodal-line semimetals ZrXY (X=Si, Ge; Y=S, Se)**
Salmankurt B., Duman S.
PHILOSOPHICAL MAGAZINE, vol.97, no.3, pp.175-186, 2017 (SCI-Expanded)
- VI. **Investigation of the structural, mechanical, dynamical and thermal properties of CsCaF₃ and CsCdF₃**
Salmankurt B., Duman S.
MATERIALS RESEARCH EXPRESS, vol.3, no.4, 2016 (SCI-Expanded)
- VII. **Investigation of structural, mechanical, electronic, optical, and dynamical properties of cubic BaLiF₃, BaLiH₃, and SrLiH₃**
Yalcin B. G., Salmankurt B., Duman S.
MATERIALS RESEARCH EXPRESS, vol.3, no.3, 2016 (SCI-Expanded)
- VIII. **Structural, electronic, optical, vibrational and transport properties of CuBX₂ (X = S, Se, Te) chalcopyrites**
Bagci S., Yalcin B. G., Aliabad H. A. R., Duman S., Salmankurt B.
RSC ADVANCES, vol.6, no.64, pp.59527-59540, 2016 (SCI-Expanded)

Books & Book Chapters

- I. **Two-Dimensional Nanomaterials Based Biosensors**
Salmankurt B., Gürel H. H.
in: Progress in Nanoscale and Low-Dimensional Materials and DevicesProperties, Synthesis, Characterization, Modelling and Applications, Ünlü Hilmi, Horng Norman J. M., Editor, Springer, London/Berlin , Berlin, pp.767-778, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Past and Present of High Performance Computing**
GÜREL H. H., SALMANKURT B.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi, 1 - 03 November 2019
- II. **Theoretical investigation of interaction Valine molecule with Black Phosphorene**
SALMANKURT B., GÜREL H. H.
Uluslararası Marmara Fen ve Sosyal Bilimler Kongresi, 1 - 03 November 2019
- III. **Ba₂BiAu termoelektrik malzemesinin yapısal, elastik ve titreşimsel özelliklerinin kuramsal olarak incelenmesi**
SALMANKURT B., GÜREL H. H.
IMASCON2019, 26 - 28 April 2019
- IV. **İki boyutlu nano yapılar ve bunların moleküllerle etkileşimiini değiştirmeye yolları**
SALMANKURT B., GÜREL H. H.
IMASCON2019, 26 - 28 April 2019

- V. **Computational Aspects of Nanostructures: PW vs AO calculations**
Salmankurt B., GÜREL H. H.
10th Jubilee Conference of the Balkan-Physical-Union (BPU), Sofija, Bulgaria, 26 - 30 August 2018, vol.2075
- VI. **Theoretical Investigation of Biosensing Properties of A New Two Dimensional Material**
SALMANKURT B., GÜREL H. H.
TFD34, 5 - 09 September 2018
- VII. **Physical Properties of BaAgBi: a theoretical study**
SALMANKURT B., GÜREL H. H.
TFD34, 5 - 09 September 2018
- VIII. **Effects of Electric Field on the Properties of 2D Topological Insulators**
Salmankurt B., GÜREL H. H.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- IX. **Binding Mechanism of Guanine on Blue Phosphorene**
SALMANKURT B., GÜREL H. H.
13th Nanoscience Nanotechnology Conference, 22 - 25 October 2017
- X. **Binding Mechanism of Guanine on Blue Phosphorene**
SALMANKURT B., GÜREL H. H.
13th Nanoscience and Nanotechnology Conference, 22 - 25 October 2017
- XI. **The lattice dynamic properties of Ag₂ZnSnS₄**
SALMANKURT B., BAĞCI S.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi(TFD33), 6 - 10 September 2017
- XII. **Graphene-Based Electrochemical Biosensors for Detection of Amino Acids**
SALMANKURT B., GÜREL H. H.
Turkish Physical Society 33th International Physics Congress., 6 - 10 September 2017
- XIII. **GRAPHENE-BASED ELECTROCHEMICAL BIOSENSORS FOR DETECTION OF AMINO ACIDS**
SALMANKURT B., GÜREL H. H.
Turkish physical society 33th international physics congress, 6 - 10 September 2017
- XIV. **Modifying of Gas Adsorption on Phosphorene**
Salmankurt B., GÜREL H. H.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XV. **The Structural, Electronic, Dynamical and Thermal Properties of LaSn₃ and LaPb₃**
Feyzioglu K. F., Salmankurt B., Duman S.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XVI. **Theoretical Investigation of the Structural, Electronic, Dynamical and Thermal Properties of YSn₃ and YPb₃**
Kilicarslan A., Salmankurt B., Duman S.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XVII. **Interaction Mechanism of Biomolecules on Vacancy Defected 2D Materials**
GÜREL H. H., Salmankurt B.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XVIII. **Interactions of Amino Acids with Adatoms(Ti, C,O) Decorated Graphene via Effect of Charging**
Salmankurt B., GÜREL H. H.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XIX. **First-Principles Studies of the Atomic, Elastic and Vibrational Properties of BaNbO₃**
Kilicarslan A., Bal E., Dinc M., Salmankurt B., Duman S.

9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015,
vol.1722

XX. Biological Applications Of Graphene Oxide

GÜREL H. H., Salmankurt B.

9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015,
vol.1722

XXI. Graphene Based Biosensors

GÜREL H. H., Salmankurt B.

9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015,
vol.1722

XXII. Structural, Elastic and Vibrational Properties of ScGa3

Bal E., Dinc M., Kilicarslan A., Salmankurt B., Duman S.

9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015,
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