

## Resr. BAHADIR SALMANKURT

### Personal Information

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### 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

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

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- III. **Computational aspects of nanostructures: PW vs AO calculations**  
SALMANKURT B., GÜREL H. H.  
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, 2019 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)

- VI. **Investigation of the structural, mechanical, dynamical and thermal properties of  $CsCaF_3$  and  $CsCdF_3$**

Salmankurt B., Duman S.

MATERIALS RESEARCH EXPRESS, vol.3, no.4, 2016 (Journal Indexed in SCI)

- VII. **Investigation of structural, mechanical, electronic, optical, and dynamical properties of cubic  $BaLiF_3$ ,  $BaLiH_3$ , and  $SrLiH_3$**

Yalcin B. G. , Salmankurt B., Duman S.

MATERIALS RESEARCH EXPRESS, vol.3, no.3, 2016 (Journal Indexed in SCI)

- VIII. **Structural, electronic, optical, vibrational and transport properties of  $CuBX_2$  ( $X = S, Se, Te$ ) chalcopyrites**

Bagci S., Yalcin B. G. , Aliabad H. A. R. , Duman S., Salmankurt B.

RSC ADVANCES, vol.6, no.64, pp.59527-59540, 2016 (Journal Indexed in SCI)

## 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.  **$Ba_2BiAu$  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 etkileşimini değiştirme 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  $\text{Ag}_2\text{ZnSnS}_4$**   
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  $\text{LaSn}_3$  and  $\text{LaPb}_3$**   
Feyzioğlu 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  $\text{YSn}_3$  and  $\text{YPb}_3$**   
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  $\text{BaNbO}_3$**   
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  $\text{ScGa}_3$**   
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, vol.1722

## Citations

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