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Advising Theses

- ELLİALTIOĞLU S. Ş., Physical properties of anatase TiO₂ altered by lanthanide atoms, Doctorate, K.BAŞAK(Student), 2015
- ELLİALTIOĞLU S. Ş., Atomic structure of (GeTe)_m(Sb₂Te₃)_n phase-change materials, Postgraduate, S.HOMURLU(Student), 2014
- ELLİALTIOĞLU S. Ş., Adsorption of aromatic molecules on rutile TiO₂(110) surfaces, Postgraduate, M.MESTA(Student), 2009
- ELLİALTIOĞLU S. Ş., Adsorption of gold atoms on anatase TiO₂(100)-1x1 surface, Postgraduate, K.BAŞAK(Student), 2009
- ELLİALTIOĞLU S. Ş., Energy bands of tise and tmse₂ in tight binding model, Postgraduate, Ö.Yıldırım(Student), 2005
- ELLİALTIOĞLU S. Ş., Energy bands of TlSe and TlInSe₂ in tight binding model, Postgraduate, Ö.YILDIRIM(Student), 2005
- ELLİALTIOĞLU S. Ş., Adsorption and growth on Si(001) surface, Doctorate, R.SHALTAF(Student), 2004
- ELLİALTIOĞLU S. Ş., Electronic properties of transition metal oxides, Doctorate, E.Mete(Student), 2003
- ELLİALTIOĞLU S. Ş., A Tight-binding model of chemisorption on perovskite surfaces, Doctorate, H.KÖKTEN(Student), 1993
- ELLİALTIOĞLU S. Ş., Construction of a scanning tunneling microscope and its application to graphite surface in air, Postgraduate, İ.İNÖNÜ(Student), 1990
- ELLİALTIOĞLU S. Ş., On the theory of conventional and high T_c superconductivity, Postgraduate, A.SERDAR(Student), 1990
- ELLİALTIOĞLU S. Ş., Computer simulation of the structure of amorphous silicon using Monte Carlo technique., Doctorate, G.Dereli(Student), 1987
- ELLİALTIOĞLU S. Ş., Two dimensional systems in solid state physics, Doctorate, Ş.KATIRCIOĞLU(Student), 1987

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Surface energy and excess charge in (1x2)-reconstructed rutile TiO₂(110) from DFT plus U calculations**
Unal H., METE E., Ellialtioglu S.
PHYSICAL REVIEW B, vol.84, no.11, 2011 (SCI-Expanded)
- II. **Interaction of BrPDI, BrGly, and BrAsp with the Rutile TiO₂(110) Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study**
Cakir D., GÜLSEREN O., METE E., ELLİALTIOĞLU S. Ş.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.115, no.18, pp.9220-9226, 2011 (SCI-Expanded)
- III. **Pentacene Multilayers on Ag(111) Surface**
METE E., Demiroglu I., DANIŞMAN M. F., Ellialtioglu S.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.114, no.6, pp.2724-2729, 2010 (SCI-Expanded)
- IV. **Atomic and electronic structure of group-IV adsorbates on the GaAs(001)-(1 x 2) surface**
Usanmaz D., ÇAKMAK M., ELLİALTIOĞLU S. Ş.

SURFACE SCIENCE, vol.603, no.17, pp.2683-2687, 2009 (SCI-Expanded)

- V. **Dye adsorbates BrPDI, BrGly, and BrAsp on anatase TiO₂(001) for dye-sensitized solar cell applications**
Cakir D., GÜLSEREN O., METE E., ELLİALTIOĞLU S. Ş.
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- VI. **Modification of TiO₂(001) surface electronic structure by Au impurity investigated with density functional theory**
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- VII. **Pt-incorporated anatase TiO₂(001) surface for solar cell applications: First-principles density functional theory calculations**
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PHYSICAL REVIEW B, vol.79, no.12, 2009 (SCI-Expanded)
- VIII. **On the Structure Sensitivity of CO Oxidation on Alumina Supported Pd-Pt Bimetallic Catalysts**
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TURKISH JOURNAL OF CHEMISTRY, vol.33, no.1, pp.11-21, 2009 (SCI-Expanded)
- IX. **Atomic and electronic structure of Bi/GaAs(001)-alpha 2(2x4)**
Usanmaz D., ÇAKMAK M., ELLİALTIOĞLU S. Ş.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.20, no.26, 2008 (SCI-Expanded)
- X. **Chemisorption of 3-aminopropyltrimethoxysilane on Si(001)-(2 x 2)**
Demirel G., Cakmak M., Caykara T., Ellialtioglu S.
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- XI. **Effect of hydrogenation on B/Si(001)-(1 x 2)**
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- XII. **An ab initio study of 3-aminopropyltrimethoxysilane molecule on Si(111)-(root 3 x root 3) surface**
Demirel G., Birlik G., Cakmak M., Caykara T., Ellialtioglu S.
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- XIII. **Atomic and electronic structure of Sr/Si(001)-(2 x 2)**
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- XIV. **Lattice vibrations of pure and doped GaSe**
Allakhverdiev K., Baykara T., Ellialtioglu S., Hashimzade F., Huseinova D., Kawamura K., Kaya A., Kulibekov A., Onari S.
MATERIALS RESEARCH BULLETIN, vol.41, no.4, pp.751-763, 2006 (SCI-Expanded)
- XV. **Cs adsorption on Si(001) surface: An ab initio study**
Shaltaf R., Mete E., Ellialtioglu S.
PHYSICAL REVIEW B, vol.72, no.20, 2005 (SCI-Expanded)
- XVI. **DFT study of Rb/Si(100)-2 x 1 system**
Mete E., Shaltaf R., Ellialtioglu S.
SURFACE SCIENCE, vol.583, pp.119-125, 2005 (SCI-Expanded)
- XVII. **Electronic structure of the chainlike compound TlSe**
Ellialtioglu S., Mete E., Shaltaf R., Allakhverdiev K., Gashimzade F., Nizametdinova M., Orudzhev G.
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- XVIII. **Mg adsorption on Si(001) surface from first principles**
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- XIX. **Electronic and structural properties of a 4d perovskite: Cubic phase of SrZrO₃**
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- XX. **Ab initio study of the one-monolayer Sb/Si(001) interface**

- Cakmak M., Shaltaf R., Srivastava G., Ellialtioglu S.
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- XXI. **Adsorption of Te on Ge(001): Density-functional calculations**
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- XXII. **Ab initio study of the adsorption and desorption of Se on the Si(001) surface**
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SURFACE SCIENCE, vol.507, pp.29-33, 2002 (SCI-Expanded)
- XXIII. **Spatial stabilization of Townsend and glow discharges with a semiconducting cathode**
Salamov B., Ellialtioglu S., AKINOĞLU B. G., Lebedeva N., Patriskii L.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.29, no.3, pp.628-633, 1996 (SCI-Expanded)
- XXIV. **CHEMISORPTION OF A P-ADSORBATE ON PEROVSKITES**
KOKTEN H., ELLIALTIOGLU S.
PHYSICA B, vol.193, no.1, pp.39-44, 1994 (SCI-Expanded)
- XXV. **RAMAN-SCATTERING IN LAYER INDIUM SELENIDE UNDER PRESSURE**
ALLAHVERDI K., BABAEV S., ELLIALTIOGLU S., ISMAILOV A.
SOLID STATE COMMUNICATIONS, vol.87, no.8, pp.675-678, 1993 (SCI-Expanded)
- XXVI. **A COMPUTER-SIMULATION OF AMORPHOUS-SILICON**
DERELI G., YALABIK M., ELLIALTIOGLU S.
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- XXVII. **CALCULATIONS OF STM LINESCANS - GENERAL FORMALISM**
ELLIALTIOGLU S., CIRACI S., BATRA I.
SOLID STATE COMMUNICATIONS, vol.66, no.11, pp.1135-1139, 1988 (SCI-Expanded)
- XXVIII. **ELECTRONIC-STRUCTURE OF STRAINED SIN/GEN(001) SUPERLATTICES**
CIRACI S., GULSEREN O., ELLIALTIOGLU S.
SOLID STATE COMMUNICATIONS, vol.65, no.11, pp.1285-1290, 1988 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Bandgap modulation of GaSe type semiconductors by coherently excited Raman active optical phonons**

ALLAKHVERDIEV K., ELLIALTIOGLU S.

14th International Conference on Raman Spectroscopy, HONG KONG, Hong Kong, 22 - 26 August 1994, pp.312-313

Supported Projects

ELLİALTIOĞLU S. Ş., Project Supported by Higher Education Institutions, Faz-Geçişli Üçlü-Bileşikler Ve Metal-Metal-Oksit Arayüzleri Elektronik: İlk-İlke Hasapları, 2012 - 2012

ELLİALTIOĞLU S. Ş., Project Supported by Higher Education Institutions, Işık Hasatlayan Nano-Yapıların Elektronik Özellikleri, 2010 - 2010

Metrics

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