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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 tlınse2 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.NÖNÜ(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., GÜL SEREN O., METE E., ELLİALTIOĞLU S. Ş.
PHYSICAL REVIEW B, vol.80, no.3, 2009 (SCI-Expanded)
- VI. Modification of TiO₂(001) surface electronic structure by Au impurity investigated with density functional theory
METE E., GÜL SEREN O., ELLİALTIOĞLU S. Ş.
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- VII. Pt-incorporated anatase TiO₂(001) surface for solar cell applications: First-principles density functional theory calculations
METE E., ÜNER D., GÜL SEREN O., ELLİALTIOĞLU S. Ş.
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
Kaya S., Erunal E., Shaltaf R., Ellialtioglu S., ÜNER D.
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- 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.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.111, no.41, pp.15020-15025, 2007 (SCI-Expanded)
- XI. Effect of hydrogenation on B/Si(001)-(1 x 2)
Cakmak M., Mete E., Ellialtioglu S.
SURFACE SCIENCE, vol.601, no.18, pp.3711-3716, 2007 (SCI-Expanded)
- 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)
Cakmak M., Mete E., Ellialtioglu S.
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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.
PHYSICAL REVIEW B, vol.70, no.19, 2004 (SCI-Expanded)
- XVIII. Mg adsorption on Si(001) surface from first principles
Shaltaf R., Mete E., Ellialtioglu S.
PHYSICAL REVIEW B, vol.69, no.12, 2004 (SCI-Expanded)
- 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**
 Cakmak M., Srivastava G., Ellialtioglu S.
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- XXII. Ab initio study of the adsorption and desorption of Se on the Si(001) surface**
 Cakmak M., Srivastava G., Ellialtioglu S., Colakoglu K.
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- XXIII. Spatial stabilization of Townsend and glow discharges with a semiconducting cathode**
 Salamov B., Ellialtioglu S., AKINOĞLU B. G., Lebedeva N., Patrskii 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., ELLIALTIOLU 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., ELLIALTIOLU S., ISMAILOV A.
 SOLID STATE COMMUNICATIONS, vol.87, no.8, pp.675-678, 1993 (SCI-Expanded)
- XXVI. A COMPUTER-SIMULATION OF AMORPHOUS-SILICON**
 DEREKI G., YALABIK M., ELLIALTIOLU S.
 PHYSICA SCRIPTA, vol.40, no.1, pp.117-121, 1989 (SCI-Expanded)
- XXVII. CALCULATIONS OF STM LINESCANS - GENERAL FORMALISM**
 ELLIALTIOLU 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., ELLIALTIOLU 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., ELLIALTIOLU S.
 14th International Conference on Raman Spectroscopy, HONG KONG, Hong Kong, 22 - 26 August 1994, pp.312-313

Supported Projects

- ELLİALTİOĞLU S.Ş., Project Supported by Higher Education Institutions, Faz-Geçişli Üçlü-Bileşikler Ve Metal-Metal-Oksit Arayüzleri Elektronığı: İlk-İlke Hasapları, 2012 - 2012
- ELLİALTİOĞLU S.Ş., Project Supported by Higher Education Institutions, İşık Hasatlayan Nano-Yapıların Elektronik Özellikleri, 2010 - 2010

Metrics

- Publication: 29
 Citation (WoS): 435
 Citation (Scopus): 313
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