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Kişisel Bilgiler

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Yönetilen Tezler

- ELLİALTIOĞLU S. Ş., Physical properties of anatase TiO₂ altered by lanthanide atoms, Doktora, K.BAŞAK(Öğrenci), 2015
- ELLİALTIOĞLU S. Ş., Atomic structure of (GeTe)_m(Sb₂Te₃)_n phase-change materials, Yüksek Lisans, S.HOMURLU(Öğrenci), 2014
- ELLİALTIOĞLU S. Ş., Adsorption of aromatic molecules on rutile TiO₂(110) surfaces, Yüksek Lisans, M.MESTA(Öğrenci), 2009
- ELLİALTIOĞLU S. Ş., Adsorption of gold atoms on anatase TiO₂(100)-1x1 surface, Yüksek Lisans, K.BAŞAK(Öğrenci), 2009
- ELLİALTIOĞLU S. Ş., tise ve tlnse₂'in sıkı bağ modelinde enerji bantları, Yüksek Lisans, Ö.Yıldırım(Öğrenci), 2005
- ELLİALTIOĞLU S. Ş., Energy bands of TlSe and TlInSe₂ in tight binding model, Yüksek Lisans, Ö.YILDIRIM(Öğrenci), 2005
- ELLİALTIOĞLU S. Ş., Adsorption and growth on Si(001) surface, Doktora, R.SHALTAF(Öğrenci), 2004
- ELLİALTIOĞLU S. Ş., Geçiş metal oksitlerin elektronik özellikleri, Doktora, E.Mete(Öğrenci), 2003
- ELLİALTIOĞLU S. Ş., A Tight-binding model of chemisorption on perovskite surfaces, Doktora, H.KÖKTEN(Öğrenci), 1993
- ELLİALTIOĞLU S. Ş., Construction of a scanning tunneling microscope and its application to graphite surface in air, Yüksek Lisans, İİNÖNÜ(Öğrenci), 1990
- ELLİALTIOĞLU S. Ş., On the theory of conventional and high T_c superconductivity, Yüksek Lisans, A.SERDAR(Öğrenci), 1990
- ELLİALTIOĞLU S. Ş., Computer simulation of the structure of amorphous silicon using Monte Carlo technique., Doktora, G.Dereli(Öğrenci), 1987
- ELLİALTIOĞLU S. Ş., Two dimensional systems in solid state physics, Doktora, Ş.KATIRCIOĞLU(Öğrenci), 1987

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.84, sa.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, cilt.115, sa.18, ss.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, cilt.114, sa.6, ss.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, cilt.603, sa.17, ss.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.
PHYSICAL REVIEW B, cilt.80, sa.3, 2009 (SCI-Expanded)

- VI. **Modification of TiO₂(001) surface electronic structure by Au impurity investigated with density functional theory**
METE E., GÜLSEREN O., ELLİALTIOĞLU S. Ş.
PHYSICAL REVIEW B, cilt.80, sa.3, 2009 (SCI-Expanded)
- VII. **Pt-incorporated anatase TiO₂(001) surface for solar cell applications: First-principles density functional theory calculations**
METE E., ÜNER D., GÜLSEREN O., ELLİALTIOĞLU S. Ş.
PHYSICAL REVIEW B, cilt.79, sa.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.
TURKISH JOURNAL OF CHEMISTRY, cilt.33, sa.1, ss.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, cilt.20, sa.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, cilt.111, sa.41, ss.15020-15025, 2007 (SCI-Expanded)
- XI. **Effect of hydrogenation on B/Si(001)-(1 x 2)**
Cakmak M., Mete E., Ellialtioglu S.
SURFACE SCIENCE, cilt.601, sa.18, ss.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.
SURFACE SCIENCE, cilt.601, sa.18, ss.3740-3744, 2007 (SCI-Expanded)
- XIII. **Atomic and electronic structure of Sr/Si(001)-(2 x 2)**
Cakmak M., Mete E., Ellialtioglu S.
SURFACE SCIENCE, cilt.600, sa.18, ss.3614-3618, 2006 (SCI-Expanded)
- 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, cilt.41, sa.4, ss.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, cilt.72, sa.20, 2005 (SCI-Expanded)
- XVI. **DFT study of Rb/Si(100)-2 x 1 system**
Mete E., Shaltaf R., Ellialtioglu S.
SURFACE SCIENCE, cilt.583, ss.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, cilt.70, sa.19, 2004 (SCI-Expanded)
- XVIII. **Mg adsorption on Si(001) surface from first principles**
Shaltaf R., Mete E., Ellialtioglu S.
PHYSICAL REVIEW B, cilt.69, sa.12, 2004 (SCI-Expanded)
- XIX. **Electronic and structural properties of a 4d perovskite: Cubic phase of SrZrO₃**
Mete E., Shaltaf R., Ellialtioglu S.
PHYSICAL REVIEW B, cilt.68, sa.3, 2003 (SCI-Expanded)
- XX. **Ab initio study of the one-monolayer Sb/Si(001) interface**
Cakmak M., Shaltaf R., Srivastava G., Ellialtioglu S.
SURFACE SCIENCE, cilt.532, ss.661-665, 2003 (SCI-Expanded)

- XXI. **Adsorption of Te on Ge(001): Density-functional calculations**
Cakmak M., Srivastava G., Ellialtioglu S.
PHYSICAL REVIEW B, cilt.67, sa.20, 2003 (SCI-Expanded)
- XXII. **Ab initio study of the adsorption and desorption of Se on the Si(001) surface**
Cakmak M., Srivastava G., Ellialtioglu S., Colakoglu K.
SURFACE SCIENCE, cilt.507, ss.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, cilt.29, sa.3, ss.628-633, 1996 (SCI-Expanded)
- XXIV. **CHEMISORPTION OF A P-ADSORBATE ON PEROVSKITES**
KOKTEN H., ELLIALTIOGLU S.
PHYSICA B, cilt.193, sa.1, ss.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, cilt.87, sa.8, ss.675-678, 1993 (SCI-Expanded)
- XXVI. **A COMPUTER-SIMULATION OF AMORPHOUS-SILICON**
DERELI G., YALABIK M., ELLIALTIOGLU S.
PHYSICA SCRIPTA, cilt.40, sa.1, ss.117-121, 1989 (SCI-Expanded)
- XXVII. **CALCULATIONS OF STM LINE SCANS - GENERAL FORMALISM**
ELLIALTIOGLU S., CIRACI S., BATRA I.
SOLID STATE COMMUNICATIONS, cilt.66, sa.11, ss.1135-1139, 1988 (SCI-Expanded)
- XXVIII. **ELECTRONIC-STRUCTURE OF STRAINED SIN/GEN(001) SUPERLATTICES**
CIRACI S., GULSEREN O., ELLIALTIOGLU S.
SOLID STATE COMMUNICATIONS, cilt.65, sa.11, ss.1285-1290, 1988 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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 Ağustos 1994, ss.312-313

Desteklenen Projeler

ELLIALTIOĞLU S. Ş., Yükseköğretim Kurumları Destekli Proje, Faz-Geçişli Üçlü-Bileşikler Ve Metal-Metal-Oksit Arayüzleri Elektronik: İlk-İlke Hasapları, 2012 - 2012
ELLIALTIOĞLU S. Ş., Yükseköğretim Kurumları Destekli Proje, Işık Hasatlayan Nano-Yapıların Elektronik Özellikleri, 2010 - 2010

Metrikler

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