

MD MEHMET GÖKHAN ŞENSOY

Personal Information

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Education Information

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, Turkey 2011 - 2017

Postgraduate, Balıkesir University, Fen-Bilimleri Enstitüsü, Fizik Bölümü, Turkey 2008 - 2010

Undergraduate, Balıkesir University, Necatibey Eğitim Fakültesi , Fizik Öğretmenliği, Turkey 2003 - 2008

Dissertations

Doctorate, Ab initio modelling of materials properties for catalytic and device applications, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2017

Postgraduate, Manyetik karakteristikteki malzemelerin manyetik alanda oluşturdukları anomali ile belirlenmesi ve oluşan anomaliye göre manyetik malzemenin karakterizasyonu, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2010

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Recep Tayyip Erdogan University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2017 - Continues

Research Assistant, Middle East Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2017

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

- I. **Formaldehyde Selectivity in Methanol Partial Oxidation on Silver: Effect of Reactive Oxygen Species, Surface Reconstruction, and Stability of Intermediates**
Karatok M., ŞENSOY M. G. , Vovk E., TOFFOLI H., Toffoli D., ÖZENSOY E.
ACS CATALYSIS, vol.11, no.10, pp.6200-6209, 2021 (Journal Indexed in SCI)
- II. **Density Functional Theory Investigation of Oxidation Intermediates on Gold and Gold-Silver Surfaces**
Sensoy M. G. , Montemore M. M.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.124, no.16, pp.8843-8853, 2020 (Journal Indexed in SCI)
- III. **First-principles investigation of CO and CO₂ adsorption on gamma-Al₂O₃ supported monoatomic and diatomic Pt clusters**
Sensoy M. G. , Ustunel H., Toffoli D.
APPLIED SURFACE SCIENCE, vol.499, 2020 (Journal Indexed in SCI)

- IV. **Magnetic properties of the spin-5/2 Blume-Capel chain in a magnetic field**
 Sensoy M. G. , Bati M.
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.113, pp.21-24, 2019 (Journal Indexed in SCI)
- V. **First-principles study of coupled effect of ripplocations and S-vacancies in MoS2**
 Tritsaris G. A. , Sensoy M. G. , Shirodkar S. N. , Kaxiras E.
 JOURNAL OF APPLIED PHYSICS, vol.126, no.8, 2019 (Journal Indexed in SCI)
- VI. **The influence of vacancy-induced local strain on the transport properties in armchair and zigzag graphene nanoribbons**
 Sensoy M. G.
 MATERIALS RESEARCH EXPRESS, vol.6, no.4, 2019 (Journal Indexed in SCI)
- VII. **Accurate formation energies of charged defects in solids: A systematic approach**
 Vinichenko D., Sensoy M. G. , Friend C. M. , Kaxiras E.
 PHYSICAL REVIEW B, vol.95, no.23, 2017 (Journal Indexed in SCI)
- VIII. **Structural and electronic properties of bulk and low-index surfaces of zinblend PtC**
 Sensoy M. G. , TOFFOLI D., Ustunel H.
 JOURNAL OF PHYSICS-CONDENSED MATTER, vol.29, no.12, 2017 (Journal Indexed in SCI)
- IX. **Strain effects on the behavior of isolated and paired sulfur vacancy defects in monolayer MoS2**
 Sensoy M. G. , Vinichenko D., Chen W., Friend C. M. , Kaxiras E.
 PHYSICAL REVIEW B, vol.95, no.1, 2017 (Journal Indexed in SCI)
- X. **New magnetic measurement system for determining metal covered mines by detecting magnetic anomaly using a sensor network**
 Ege Y., KAKİLLİ A., Citak H., KALENDER O., Nazlibilek S., Sensoy M. G.
 INDIAN JOURNAL OF PURE & APPLIED PHYSICS, vol.53, no.3, pp.199-211, 2015 (Journal Indexed in SCI)
- XI. **A new wireless asynchronous data communications module for industrial applications**
 Ege Y., Sensoy M. G. , KALENDER O., Nazlibilek S., Citak H.
 MEASUREMENT, vol.46, no.8, pp.2672-2681, 2013 (Journal Indexed in SCI)
- XII. **Identification of materials with magnetic characteristics by neural networks**
 Nazlibilek S., Ege Y., KALENDER O., Sensoy M. G. , Karacor D., Sazh M. H.
 MEASUREMENT, vol.45, no.4, pp.734-744, 2012 (Journal Indexed in SCI)
- XIII. **Numerical Analysis for Remote Identification of Materials With Magnetic Characteristics**
 Ege Y., ŞENSOY M. G. , KALENDER O., Nazlibilek S.
 IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.60, no.9, pp.3140-3152, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Ab initio atomistic thermodynamics modeling of adsorption of oxygen on gold and gold-silver surfaces**
 Sensoy M. G.
 TURKISH JOURNAL OF PHYSICS, vol.43, no.5, pp.502-515, 2019 (Journal Indexed in ESCI)
- II. **Investigation of Magnetic Properties of Spin 5/2 Ising Chain by Using Transfer Matrix Method**
 ŞENSOY M. G. , BATI M.
 SAKARYA ÜNİVERSİTY JOURNAL OF SCİENCE, vol.22, no.6, pp.1, 2018 (National Refreed University Journal)
- III. **Investigation of Magnetic Properties of Spin 5/2 Ising Chain by Using Tranfer Matrix Method**
 ŞENSOY M. G. , BATI M.
 Sakarya University Journal of Science, vol.22, no.6, pp.1901-1906, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Adsorption Properties of Oxidation Intermediates on Ag(111) Surface: A Density Functional Theory Study**
ŞENSOY M. G.
2nd International Conference on Physical Chemistry and Functional Materials (PCFM'19), Nevşehir, Turkey, 25 - 27 June 2019
- II. **First-principles investigation of O, CO, CH₃O and OH adsorption on gold-silver surfaces**
ŞENSOY M. G.
National Catalysis Conference-7, Denizli, Turkey, 9 - 12 September 2018
- III. **Magnetic properties and plateaus behavior of the spin-5/2 chain compounds: A Blume-Capel model**
BATI M., ŞENSOY M. G.
34th International Physics Conference of Turkish Physical Society, Muğla, Turkey, 5 - 09 September 2018, pp.541
- IV. **Magnetic properties and plateaus behavior of the spin-5/2 chain compounds: A Blume-Capel model**
BATI M., ŞENSOY M. G.
34th International Physics Conference of Turkish Physical Society, Muğla, Turkey, 5 - 09 September 2018, pp.541
- V. **Density Functional Theory Investigation of the Structural, Electronic and Adsorption Properties of (100), (110) and (111) Surfaces of Zincblende PtC**
ŞENSOY M. G. , TOFFOLÌ H., TOFFOLI D.
NanoTR-11, Ankara, 23 - 25 June 2015
- VI. **Density Functional Theory Investigation of Adsorption Properties of CO, CO₂ and H₂O on gamma-Al₂O₃ Supported Pt Clusters**
ŞENSOY M. G. , TOFFOLÌ H., TOFFOLI D.
APS March Meeting, 3 - 07 March 2014
- VII. **Density functional theory investigation of CO, CO₂ and H₂O activation on gamma-Al₂O₃ Supported Pt Clusters**
ŞENSOY M. G. , TOFFOLÌ H., TOFFOLI D.
NanoTR-9, Erzurum, 24 - 28 June 2013

Scientific Refereeing

Journal of Physics Communications, SCI Journal, July 2017

Citations

Total Citations (WOS):79

h-index (WOS):4

Scholarships

Yurt Dışı Doktora Sırası Araştırma Burs Programı, TÜBİTAK, 2015 - Continues

Awards

ŞENSOY M. G. , Bölüm Birinciliği, Balıkesir Üniversitesi, June 2010