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Kişisel Bilgiler

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Eğitim Bilgileri

Lisans, İnönü Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Türkiye 1994 - 1998

Araştırma Alanları

Fizik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2017 - Devam Ediyor

Doç.Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2016

Yrd.Doç.Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2011

Araştırma Görevlisi, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1999 - 2007

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Structural, magnetic and magnetocaloric properties of Ru doped Pr_{0.67}Ca_{0.33}Mn_{1-x}Ru_xO₃ manganites**
Kanikirmizi T., İZGİ T., BAYRİ N., GENÇER H., KOLAT V. S., Pektas M., ATALAY S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.33, sa.27, ss.21778-21795, 2022 (SCI-Expanded)
- II. **Detection of Diazinon Organophosphates Using Magnetoelastic Sensor**
ATALAY S., ATEŞ B., Balcioglu S., Inan O. O., Kolak S., ŞİMŞEK M., KOLAT V. S., KÖYTEPE S., İZGİ T.
IEEE TRANSACTIONS ON MAGNETICS, cilt.58, sa.2, 2022 (SCI-Expanded)
- III. **Magnetic and Magnetocaloric Properties of Pr₂Fe_{17-x}Cu_x Intermetallic Compounds**
Cengiz N. E., Pektas M., KOLAT V. S., İZGİ T., GENÇER H., BAYRİ N., ATALAY S.
JOURNAL OF MAGNETICS, cilt.26, sa.3, ss.332-340, 2021 (SCI-Expanded)
- IV. **Effects of Ru substitution on the structural, magnetic and magnetocaloric properties of Pr_{0.68}Ca_{0.22}Sr_{0.1}Mn_{1-x}Ru_xO₃ (x=0, 0.05, 0.1 and 0.2) compounds**
Pektas M., İZGİ T., GENÇER H., ATALAY S., KOLAT V. S., BAYRİ N.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.18, ss.15731-15741, 2020 (SCI-Expanded)

- V. **A Rapid Response Humidity Sensor for Monitoring Human Respiration with TiO₂-Based Nanotubes as a Sensing Layer**
ATALAY S., ERDEMOĞLU S., KOLAT V. S., İZGİ T., Akgeyik E., Yilmaz H. C., Kaya H., ATALAY F.
JOURNAL OF ELECTRONIC MATERIALS, cilt.49, sa.5, ss.3209-3215, 2020 (SCI-Expanded)
- VI. **Magnetoelastic Humidity Sensors with TiO₂ Nanotube Sensing Layers**
ATALAY S., İZGİ T., KOLAT V. S., ERDEMOĞLU S., Inan O. O.
SENSORS, cilt.20, sa.2, 2020 (SCI-Expanded)
- VII. **Magnetic and magnetocaloric properties of La_{0.94}Bi_{0.06}Mn_{1-x}Cr_xO₃ (x= 0; 0.05; 0.1; 0.15; 0.2; 0.25) samples**
İZGİ T., KOLAT V. S., GENÇER H., BAYRİ N., ÖZKAN U.
ACTA PHYSICA POLONICA A, cilt.135, ss.100-105, 2019 (SCI-Expanded)
- VIII. **Magnetic-propelled Fe₃O₄-chitosan carriers enhance l-asparaginase catalytic activity: a promising strategy for enzyme immobilization**
ATEŞ B., ULU A., KÖYTEPE S., ALI NOMA S. A., KOLAT V. S., İZGİ T.
RSC ADVANCES, cilt.8, sa.63, ss.36063-36075, 2018 (SCI-Expanded)
- IX. **Structural, Magnetic and Magnetocaloric Properties of Pr_{0.68}Ca_{0.32-x} Bi (x) MnO₃ (x=0, 0.1, 0.18, 0.26 and 0.32) Compounds**
GENÇER H., İZGİ T., BAYRİ N., PEKTAS M., KOLAT V. S., ATALAY S.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.9, ss.2443-2450, 2016 (SCI-Expanded)
- X. **Magnetoelastic Sensor Studies on Amorphous Magnetic FeSiB Wire and the Application in Viscosity Measurement**
ATALAY S., KOLAT V. S., BAYRİ N., İZGİ T.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.6, ss.1551-1556, 2016 (SCI-Expanded)
- XI. **Crystallisation Kinetics of Co_{75-x}M_xSi₁₅B₁₀ (M = Fe, Mn, Cr and x=0, 5) Amorphous Alloys**
BAYRİ N., KOLAT V. S., İZGİ T., ATALAY S., GENÇER H., SOVAK P.
ACTA PHYSICA POLONICA A, cilt.129, sa.1, ss.84-87, 2016 (SCI-Expanded)
- XII. **Surface modification of YIG by magnet array**
ATALAY S., KOLAT V. S., BAKIR H. G., İZGİ T., KAYA A., KAYA O. A., GENÇER H.
APPLIED SURFACE SCIENCE, cilt.354, ss.337-341, 2015 (SCI-Expanded)
- XIII. **Study of nanocrystallization process in FeCrCuNbSiB amorphous alloys by Young's modulus measurements**
BAYRİ N., ATALAY S., KOLAT V. S., İZGİ T., SOVAK P.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.17, ss.1372-1378, 2015 (SCI-Expanded)
- XIV. **One-Dimensional Magnonic Crystal for Magnetic Field Sensing**
ATALAY S., KAYA A., KOLAT V. S., GENÇER H., İZGİ T.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.7, ss.2071-2075, 2015 (SCI-Expanded)
- XV. **Structural, Magnetic, and Magnetocaloric Properties of La_{1-x} Bi (x) MnO₃ (x=0.01, 0.03, 0.06, 0.1, 0.2) Compounds**
KOLAT V. S., ATALAY S., İZGİ T., GENÇER H., BAYRİ N.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, sa.6, ss.2591-2597, 2015 (SCI-Expanded)
- XVI. **The structural, magnetic and magnetocaloric properties of La_{0.67}Ca_{0.33-x}Mg_xMnO₃ (x=0, 0.02, 0.05, 0.1, 0.2, 0.33) compounds**
KOLAT V. S., ESTURK U., İZGİ T., GENÇER H., ATALAY S.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.628, ss.1-8, 2015 (SCI-Expanded)
- XVII. **YIG Film for Magnetic Field Sensor**
KAYA A., ATALAY S., GENÇER H., KAYA O. A., KOLAT V. S., İZGİ T.
ACTA PHYSICA POLONICA A, cilt.127, sa.4, ss.937-939, 2015 (SCI-Expanded)
- XVIII. **Structural, magnetic and magnetocaloric properties of the compound La_{0.94}Bi_{0.06}MnO₃**

- İZGİ T., KOLAT V. S., BAYRİ N., GENÇER H., ATALAY S.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.372, ss.112-116, 2014 (SCI-Expanded)
- XIX. **Field Induced Unusual Magnetic Behavior at Low Temperature in Pr_{0.67}Ca_{0.33}MnO₃**
PEKTAS M., GENÇER H., İZGİ T., KOLAT V. S., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.217-219, 2014 (SCI-Expanded)
- XX. **Crack Detection Using Fluxgate Magnetic Field Sensor**
İZGİ T., Göktepe M., BAYRİ N., KOLAT V. S., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.211-213, 2014 (SCI-Expanded)
- XXI. **Production of LaCaMnO₃ Composite by Ball Milling**
GENÇER H., CENGİZ N. E., KOLAT V. S., İZGİ T., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.214-216, 2014 (SCI-Expanded)
- XXII. **The crystallisation kinetics, magnetic and magnetocaloric properties of Gd₅₅Co₂₀Fe₅Al₂₀ (-) Si-x(x) (x=0, 5, 10, 15) alloys**
GENÇER H., İZGİ T., KOLAT V. S., BAYRİ N., KAYA A., ATALAY S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.379, ss.185-191, 2013 (SCI-Expanded)
- XXIII. **Influence of Si substitution on the structural, magnetic and magnetocaloric properties of Gd₅₅Co₂₀Fe₅Al_{20-x}Si_x alloys**
ATALAY S., GENÇER H., KAYA A., KOLAT V. S., İZGİ T.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.365, ss.99-104, 2013 (SCI-Expanded)
- XXIV. **Coil-Less Fluxgate Effect in Negatively Magnetostrictive Co_{72.5}Si_{12.5}B₁₅ Amorphous Wire**
ATALAY S., BAYRİ N., FIDAN A., YAGMUR V., İZGİ T., ATALAY F., KOLAT V. S.
SENSOR LETTERS, cilt.11, sa.1, ss.195-198, 2013 (SCI-Expanded)
- XXV. **Electrical Transport and Magnetoresistance of La_{0.67}Ca_{0.33}MnO₃: Ag-x (x=0, 0.1, 0.2, 0.3, 0.4) Composites**
GENÇER H., PEKTAS M., Babur Y., KOLAT V. S., İZGİ T., ATALAY S.
JOURNAL OF MAGNETICS, cilt.17, sa.3, ss.176-184, 2012 (SCI-Expanded)
- XXVI. **Magnetic and magnetocaloric properties of GdB₂ compound**
GENÇER H., İZGİ T., KOLAT V. S., ATALAY S.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, cilt.6, ss.875-878, 2012 (SCI-Expanded)
- XXVII. **Magnetic and Magnetocaloric Properties of (Gd_{1-x}Ce_x)Al₂ (x=0, 0.25, 0.5, 0.75) Compounds**
GENÇER H., İZGİ T., KOLAT V. S., KAYA A., ATALAY S.
JOURNAL OF MAGNETICS, cilt.16, sa.4, ss.337-341, 2011 (SCI-Expanded)
- XXVIII. **THE VARIATION OF EXCHANGE CONSTANT AND MAGNETOCALORIC EFFECT IN LaFe_{13-x}Si_x (x=1.6, 1.9 AND 2.2) COMPOUNDS**
İZGİ T., KOLAT V. S., GENÇER H., ATALAY S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.25, sa.25, ss.3303-3313, 2011 (SCI-Expanded)
- XXIX. **Magnetotransport and magnetoresistance properties of Pr_{0.68}Ca_{0.32-x}Sr_xMnO₃ (x=0, 0.1, 0.18, 0.26 and 0.32) manganites**
İZGİ T., KOLAT V. S., BAYRİ N., KAYA A., GENÇER H., ATALAY S.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.13, ss.648-655, 2011 (SCI-Expanded)
- XXX. **SIZE-INDUCED EFFECTS IN NANOSTRUCTURED NiFe₂O₄**
GÜNEŞ M., GENÇER H., İZGİ T., KOLAT V. S., ATALAY S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.24, sa.30, ss.5973-5985, 2010 (SCI-Expanded)
- XXXI. **Influence of the wire length on the of coil-less fluxgate properties of amorphous (Co_{0.94}Fe_{0.06}) (72.5)Si_{12.5}B₁₅ wire**
ATALAY S., BAYRİ N., İZGİ T., YAGMUR V., ATALAY F., KOLAT V. S.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.163, sa.1, ss.122-127, 2010 (SCI-Expanded)
- XXXII. **Influence of Ge and Bi substitution on the magnetic and magnetocaloric properties of LaFe_{11.4}Si_{1.6}**
KOLAT V. S., KAYA A., İZGİ T., GENÇER H., BAYRİ N., ATALAY S.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.12, sa.5, ss.1129-1134, 2010 (SCI-Expanded)

- XXXIII. **Coil-less fluxgate effect in amorphous wires**
ATALAY S., BAYRI N., İZGİ T., ATALAY F., KOLAT V. S.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.158, sa.1, ss.37-42, 2010 (SCI-Expanded)
- XXXIV. **Metamagnetic transition and magnetocaloric effect in charge-ordered Pr_{0.68}Ca_{0.32}-xSr_xMnO₃ (x=0, 0.1, 0.18, 0.26 and 0.32) compounds**
KOLAT V. S., İZGİ T., KAYA A., BAYRI N., GENÇER H., ATALAY S.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.322, sa.4, ss.427-433, 2010 (SCI-Expanded)
- XXXV. **Magnetic and magnetoimpedance properties of Mn-doped FINEMET**
KOLAT V. S., BAYRI N., MICHALIK S., İZGİ T., SOVAK P., ATALAY F., GENÇER H., ATALAY S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.355, ss.2562-2566, 2009 (SCI-Expanded)
- XXXVI. **Effect of tensile stress on magnetoimpedance properties of CoNiFe/Cu wire**
BAYRI N., KOLAT V. S., KAYA H., ATALAY F., İZGİ T., ATALAY S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.42, sa.17, 2009 (SCI-Expanded)
- XXXVII. **Production of LaFe_{11.4}Si_{1.6} compound at high temperature with a very short annealing time**
KOLAT V. S., İZGİ T., GENÇER H., KAYA A., BAYRI N., ATALAY S.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.11, sa.8, ss.1106-1110, 2009 (SCI-Expanded)
- XXXVIII. **Magnetic and electrical properties of La_{0.67}Ca_{0.33}Mn_{0.9}V_{0.1}O₃ two-phase composite**
KOLAT V. S., Gencer H., ATALAY S.
PHYSICA B-CONDENSED MATTER, cilt.371, sa.2, ss.199-204, 2006 (SCI-Expanded)
- XXXIX. **Magnetic entropy change in Fe_{74-x}Cr_xCu₁Nb₃Si₁₃B₉ (x=14 and 17) amorphous alloys**
ATALAY S., Gencer H., KOLAT V. S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.351, ss.2373-2377, 2005 (SCI-Expanded)
- XL. **Magnetocaloric effect in the La_{0.62}Bi_{0.05}Ca_{0.33}MnO₃ compound**
Gencer H., ATALAY S., ADIGUZEL H. İ., KOLAT V. S.
PHYSICA B-CONDENSED MATTER, cilt.357, ss.326-333, 2005 (SCI-Expanded)
- XLI. **The effect of furnace annealing and surface crystallization on the anisotropy, Delta E and magnetoimpedance effects in Fe₇₁Cr₇Si₉B₁₃ amorphous wires**
Bayri N., KOLAT V. S., Atalay F., ATALAY S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.37, sa.22, ss.3067-3072, 2004 (SCI-Expanded)
- XLII. **Effect of hydrogen charging on the electrochemical and magnetic properties of Fe_{73.5}M₁Nb₃Si_{13.5}B₉ (M = Cu, Pt, Pd, Ag, Mn) alloys**
KOLAT V. S., TURKDEMİR H., Adiguzel H. İ., Atalay F., ATALAY S., SOVAK P.
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH, cilt.189, sa.3, ss.817-820, 2002 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Al-Si-Mg Foam Produced by 3D Printer**
ATALAY S., BAYRI N., KAYA H., İZGİ T., KOLAT V. S.
Adiyaman University Journal of Science, cilt.8, sa.1, ss.13-23, 2018 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Surface Modification Of Yıg By Magnet Array,**
BAKIR H. G., KOLAT V. S., İZGİ T., KAYA A. O., KAYA O. A., GENÇER H., ATALAY S.
European Conference On Surface Science, 31 Ağustos - 04 Eylül 2014

Desteklenen Projeler

KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, Ti (Fe1.7 v 0.3) ve Ti09Y01(Fe1.7 v 0.3) NUMUNELERİNİN YAPISAL, MANYETİK VE MANYETOKALORİK ÖZELLİKLERİ, 2016 - Devam Ediyor

İZGİ T., ATALAY S., KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, Pr067Ca033Mn1XAX03 ARu x000050102 numunelerinde farklı oranlarda Ru katkılmasının yapısal manyetik ve manyetokalorik özelliklerinin İncelenmesi, 2021 - 2023

ATALAY S., KOLAT V. S., İZGİ T., ULU A., DİK G., Yükseköğretim Kurumları Destekli Proje, Mikro Manyetoelastik Sensör Üretimi ve İmmünoşensor Uygulaması, 2021 - 2022

ATALAY S., İZGİ T., ERDEMOĞLU S., KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, TiO2 kaplanmış kuartz mikro terazi QCM ile Nem hidrojen ve NO2 dedektasyonu, 2019 - 2020

GENÇER H., ATALAY S., İZGİ T., KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, Pr06Ca04Mn1xAxO3 ve Pr06Ca04Mn1xAxO3 A Ru ve Au numunelerinin manyetik ve manyetokalorik özelliklerinin incelenmesi, 2019 - 2020

ATALAY S., KAYA H., İZGİ T., KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, Ultra Hassas Manyetik Alan Sensörü, 2018 - 2019

İZGİ T., BAYRİ N., KOLAT V. S., Yükseköğretim Kurumları Destekli Proje, LaXMnO Bi Cr Ca vs numunelerin yapısal manyetik ve manyetokalorik özelliklerinin belirlenmesi, 2017 - 2019

İZGİ T., KOLAT V. S., ATALAY S., KAYA H., Yükseköğretim Kurumları Destekli Proje, La094Bi006Mn1xAxO3 ACr Co Fe Ni Ag vs numunelerin yapısal manyetik ve manyetokalorik özelliklerinin belirlenmesi, 2017 - 2018

İZGİ T., KOLAT V. S., TÜBİTAK Projesi, TÜBİTAK 4006 Bilim Fuarı, 2016 - 2017

Metrikler

Yayın: 44

Atıf (WoS): 472

Atıf (Scopus): 377

H-İndeks (WoS): 10

H-İndeks (Scopus): 10