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Eğitim Bilgileri

Doktora, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2002 - 2007

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 1999 - 2001

Lisans, İnönü Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, 2-(1-Siklohekzenil)Etilamin Tetrasiyanonikelat Kompleksleri İle Hofmann-Tipi klatratlarının Spektroskopik ve Gravimetrik Olarak İncelenmesi, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2007

Yüksek Lisans, YBa₂Cu₃O₇-& bileşiğinde Y yerine farklı iyonik yarıçapa sahip Nd katılanmasının etkisi, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2001

Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Atom ve Moleküllerin Elektronik Yapısı Kuramı, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun maddenin termal özellikleri, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Manyetik özellikler ve malzemeler, Temel Bilimler

Akademik Unvanlar / Görevler

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

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

Yrd. Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2009 - 2011

Araştırma Görevlisi Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2007 - 2009

Araştırma Görevlisi, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1998 - 2007

Akademik İdari Deneyim

Dekan, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2021 - Devam Ediyor

Verdiği Dersler

Molekül Fiziği-I, Lisans Çift Anadal, 2012-2013
Grup Teorisi, Lisans Çift Anadal, 2012-2013
Malzeme üretim teknikleri, Lisans Çift Anadal, 2012-2013
Spektroskopik Yöntemler, Lisans Çift Anadal, 2012-2013
Elektronik Laboratuvarı, Lisans, 2009-2010
Teknolojinin Bilimsel İlkeleri, Lisans, 2009-2010
Atom ve Molekül Fiziği, Lisans, 2009-2010
Dalgalar Laboratuvarı, Lisans, 2009-2010
Genel Fizik Laboratuvarı, Lisans, 2009-2010
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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. **Structural, magnetic, and magnetocaloric properties of (1-x)La_{0.7}Ca_{0.3}MnO₃/(x)La_{0.7}Ag_{0.3}MnO₃ composites**
Yigiter N., Pektas M., Kolat V. S., Izgi T., Bayri N., Gencer H., Atalay S.
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- III. **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)
- IV. **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.
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- V. **Magnetic field sensor using the asymmetric giant magnetoimpedance effect created by micromagnets**
Pektas M., Kolat V. S., Bayri N., Izgi T., Atalay S.
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- VI. **Influence of Ferromagnetic Ribbon Width on Q Factor and Magnetoelastic Resonance Frequency**
Atalay S., Inan O. O., Kolat V. S., Izgi T.
ACTA PHYSICA POLONICA A, cilt.139, sa.2, ss.159-163, 2021 (SCI-Expanded)
- VII. **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**
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- VIII. **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)
- IX. **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)

- X. **Formation and Detection of Magnetic CoNiFe Nanowire Network Using Magnetoelastic Sensor**
Atalay S., Kaya H., Atalay F., Izgi T., Kolat V. S.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.32, sa.12, ss.3907-3913, 2019 (SCI-Expanded)
- XI. **Asymmetric Delta E Effect and its Use as a Magnetic Field Sensor**
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- XII. **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.
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- XIII. **Magnetoelastic sensor for magnetic nanoparticle detection**
Atalay S., Kolat V. S., Atalay F., Bayri N., Kaya H., Izgi T.
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- XIV. **Asymmetric giant magnetoimpedance effect created by micro magnets**
Atalay S., Izgi T., Buznikov N. A., Kolat V. S.
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- XV. **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)
- XVI. **Effect of Fe Substitution on Magnetic and Magnetocaloric Properties of La_{0.94}Bi_{0.06}Mn_{1-x}Fe_xO₃ (x=0, 0.05, 0.075 and 0.1) Compounds**
Gencer H., Kolat V. S., Bayri N., Izgi T., Atalay S.
JOURNAL OF MAGNETICS, cilt.22, sa.3, ss.443-449, 2017 (SCI-Expanded)
- XVII. **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)
- XVIII. **Magnetoelastic Sensor Studies on Amorphous Magnetic FeSiB Wire and the Application in Viscosity Measurement**
ATALAY S., KOLAT V. S., BAYRİ N., İZGİ T.
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- XIX. **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.
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- XX. **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)
- XXI. **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)
- XXII. **One-Dimensional Magnonic Crystal for Magnetic Field Sensing**
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JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.7, ss.2071-2075, 2015 (SCI-Expanded)
- XXIII. **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.
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- XXIV. **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)
- XXV. **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)
- XXVI. **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.
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- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **Vibrational spectroscopic study on some Hofmann type clathrates: M(2-(1-cyclohexenyl)ethylamine) (2)Ni(CN)(4)center dot 2benzene (M = Ni and Cd)**
İZGİ T., Parlak C., Senyel M.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.79, sa.2, ss.308-311, 2011 (SCI-Expanded)

- XXXVIII. **Magnetotransport and magnetoresistance properties of Pr_{0.68}Ca_{0.32}-xSrxMnO₃ (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)
- XXXIX. **SIZE-INDUCED EFFECTS IN NANOSTRUCTURED NiFe₂O₄**
 GUNES 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)
- XL. **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.
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- XLII. **Vibrational spectroscopic investigations of some Hofmann-T-d-type complexes: Ni(2-(1-cyclohexenyl)ethylamine)(2)M(CN)(4) (M = Cd or Hg)**
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- XLIII. **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.
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- XLIV. **Coil-less fluxgate effect in amorphous wires**
 ATALAY S., BAYRİ N., İZGİ T., ATALAY F., KOLAT V. S.
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- XLV. **Metamagnetic transition and magnetocaloric effect in charge-ordered Pr_{0.68}Ca_{0.32}-xSrxMnO₃ (x=0, 0.1, 0.18, 0.26 and 0.32) compounds**
 KOLAT V. S., İZGİ T., KAYA A., BAYRİ N., GENÇER H., ATALAY S.
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- XLVI. **Magnetic and magnetoimpedance properties of Mn-doped FINEMET**
 KOLAT V. S., BAYRİ 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)
- XLVII. **Effect of tensile stress on magnetoimpedance properties of CoNiFe/Cu wire**
 BAYRİ 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)
- XLVIII. **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., BAYRİ N., ATALAY S.
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- XLIX. **Crystallization kinetics of Fe_{73.5}-xMnxCu₁Nb₃Si_{13.5}B₉ (x=0, 1, 3, 5, 7) amorphous alloys**
 BAYRİ N., İZGİ T., GENÇER H., SOVAK P., GUNES M., ATALAY S.
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- L. **FT-IR spectroscopic investigation of some Hofmann type complexes: M(2-(1-Cyclohexenyl)ethylamine)(2)Ni(CN)(4) (M = Ni, Co)**
 İZGİ T., Parlak C., Aytekin T., Senyel M.
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- L. **Infrared spectrum and STM images of cyclohexene-2-ethanamine: First principle investigation**
 Izgi T., Akturk E., Gulseren O., Senyel M.
 JOURNAL OF MOLECULAR STRUCTURE, cilt.886, ss.144-147, 2008 (SCI-Expanded)
- LI. **FT-IR and NMR investigation of 2-(1-cyclohexenyl)ethylamine: A combined experimental and theoretical study**
 Izgi T., ALVER O., PARLAK C., AYTEKIN M. T., SENYEL M.
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- LII. **Infrared and structural properties of Y_{1-x}NdxBa₂Cu₃O_{7-delta} (0 <= x <= 1)**

ADIGUZEL H. İ., İzgi T.

JOURNAL OF SUPERCONDUCTIVITY, cilt.15, sa.6, ss.549-551, 2002 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. Al-Si-Mg Foam Produced by 3D Printer

ATALAY S., BAYRİ 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. Magnetic Field Enhances Catalytic Activity of L-Asparaginase Conjugated on Fe3O4-Chitosan Nanoparticles

ATEŞ B., ULU A., KÖYTEPE S., Noma S. A. A., KOLAT V. S., İZGİ T.

SANKO University Innovation in Medicine Summit-4, 11 - 13 Ekim 2018

II. 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

İZGİ T., Yükseköğretim Kurumları Destekli Proje, SOL JEL YÖNTEMİ İLE ÜRETİLEN NUMUNELERİN MANYETOEMPEDANS ÖZELLİKLERİNİN BELİRLENMESİ, 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 İmmüno-sensör 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

Bilimsel Hakemlikler

Journal of Magnetism and Magnetic Materials, SCI Kapsamındaki Dergi, Nisan 2017

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Atıf (WoS): 385

Atif (Scopus): 268

H-índeks (WoS): 10

H-índeks (Scopus): 9