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Kişisel Bilgiler

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Eğitim Bilgileri

Yüksek Lisans, Bath Spa University College, Fizik, Fizik, Birleşik Krallık 1989 - 1992

Doktora, Bath Spa University College, Fizik, Fizik, Birleşik Krallık 1989 - 1992

Lisans, İnönü Üniversitesi, Fen Ed, Fizik, Türkiye 1981 - 1986

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Magnetoelastic properties of amorphous wires, Bath Spa University College, Physics, Physics, 1992

Yüksek Lisans, Magnetoelastic properties of amorphous wires, Bath Spa University College, Physics, Physics, 1989

Araştırma Alanları

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Manyetik özellikler ve malzemeler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., İnönü Üniversitesi, Fen Ed, Fizik, 2000 - Devam Ediyor

Doç. Dr., İnönü Üniversitesi, Fen Ed, Fizik, 1995 - 2000

Yrd. Doç. Dr., İnönü Üniversitesi, Fen Ed, Fizik, 1993 - 1995

Araştırma Görevlisi, İnönü Üniversitesi, Fen Ed, Fizik, 1986 - 1993

Verdiği Dersler

Manyetizma, Lisans Çift Anadal, 2013-2014

İstatistik Fizik, Lisans, 2013-2014

Temel Fizik I (Mekanik), Lisans, 2013-2014

Elektronik, Lisans, 2013-2014

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Resonance Frequency Shift of Vibrating Amorphous Ribbon via Surface Adsorption of Magnetic Fe₃O₄ Nanoparticles**
Atalay S.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.36, sa.5, ss.1421-1425, 2023 (SCI-Expanded)
- II. **A Positive Effect of Magnetic Field on the Catalytic Activity of Immobilized L-Asparaginase: Evaluation of its Feasibility**
Dik G., Ulu A., Inan O. O., ATALAY S., ATEŞ B.
CATALYSIS LETTERS, cilt.153, sa.5, ss.1250-1264, 2023 (SCI-Expanded)
- III. **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)
- IV. **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.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.33, sa.7, ss.4721-4735, 2022 (SCI-Expanded)
- V. **Detection of Diazinon Organophosphates Using Magnetoelastic Sensor**
ATALAY S., ATEŞ B., Balcioğlu 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)
- VI. **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)
- VII. **Magnetic field sensor using the asymmetric giant magnetoimpedance effect created by micromagnets**
Pektas M., Kolat V. S., Bayri N., Izgi T., Atalay S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.10, ss.13062-13067, 2021 (SCI-Expanded)
- VIII. **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)
- IX. **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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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.18, ss.15731-15741, 2020 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **Magnetoelastic sensor for magnetic nanoparticle detection**
Atalay S., Kolat V. S., Atalay F., Bayri N., Kaya H., Izgi T.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.465, ss.151-155, 2018 (SCI-Expanded)
- XIII. **Formation of asymmetric giant magnetoimpedance in amorphous ferromagnetic wires by micro magnets**
BUZNIKOV N. A., ATALAY S.
MATERIALS RESEARCH EXPRESS, cilt.5, sa.6, 2018 (SCI-Expanded)
- XIV. **Magnetoimpedance Effect on Single NiFe Nanowire**

- ATALAY F., KAYA H., ATALAY S.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.7, ss.1795-1800, 2017 (SCI-Expanded)
- XV. **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.
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- XVI. **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)
- XVII. **Crystallisation Kinetics of Co_{75-x}MxSi₁₅B₁₀ (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)
- XVIII. **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)
- XIX. **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)
- XX. **One-Dimensional Magnonic Crystal for Magnetic Field Sensing**
ATALAY S., KAYA A., KOLAT V. S., GENÇER H., İZGİ T.
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- XXI. **Structural, Magnetic, and Magnetocaloric Properties of La_{1-x}Bi (x) MnO₃ (x=0.01, 0.03, 0.06, 0.1, 0.2) Compounds**
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METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, sa.6, ss.2591-2597, 2015 (SCI-Expanded)
- XXII. **Amorphous ferromagnetic wire for manipulation of magnetic nanowires**
ATALAY S., ATALAY F.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.226, ss.1-4, 2015 (SCI-Expanded)
- XXIII. **The structural, magnetic and magnetocaloric properties of La_{0.67}Ca_{0.33-x}MgxMnO₃ (x=0, 0.02, 0.05, 0.1, 0.2, 0.33) compounds**
KOLAT V. S., ESTURK U., İZGİ T., GENÇER H., ATALAY S.
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- XXIV. **Magneto-resistance of Electrodeposited Co/Cu Multilayer Nanowires**
AVCU D., ATALAY F., ATALAY S., KAYA H., AYDOGMUS E.
ACTA PHYSICA POLONICA A, cilt.127, sa.4, ss.1115-1117, 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.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.372, ss.112-116, 2014 (SCI-Expanded)
- XXVII. **Magneto-resistance of Electrochemically Produced NiFe and CoNiFe Nanowires**
AVCU D., ATALAY F., AYDOGMUS E., KAYA H., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.230-231, 2014 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **Magnetoimpedance Effects in Electrodeposited NiFe Nanowire Array**

- AYDOGMUS E., KAYA H., ATALAY F., ATALAY S., AVCU D.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.227-229, 2014 (SCI-Expanded)
- XXX. **The Formation of Free Standing NiO Nanostructures on Nickel Foam for Supercapacitors**
ATALAY F., AYDOGMUS E., YIGIT H., AVCU D., KAYA H., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.125, sa.2, ss.224-226, 2014 (SCI-Expanded)
- XXXI. **Production of LaCaMnO₃ Composite by Ball Milling**
GENÇER H., CENGİZ N. E., KOLAT V. S., İZGİ T., ATALAY S.
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- XXXII. **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)
- XXXIII. **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)
- XXXIV. **Surgical Approach to Splenic Hydatid Cyst: Single Center Experience**
Eris C., Akbulut S., Yildiz M., Abuoglu H., Odabasi M., Ozkan E., Atalay S., Gunay E.
INTERNATIONAL SURGERY, cilt.98, ss.346-353, 2013 (SCI-Expanded)
- XXXV. **Magnetoimpedance effects in a CoNiFe nanowire array**
ATALAY S., KAYA H., ATALAY F., AYDOGMUS E.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.561, ss.71-75, 2013 (SCI-Expanded)
- XXXVI. **Influence of Si substitution on the structural, magnetic and magnetocaloric properties of Gd₅₅Co₂₀Fe₅Al₂₀-xSix alloys**
ATALAY S., GENÇER H., KAYA A., KOLAT V. S., İZGİ T.
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- XXXVII. **Production of Y-Ba-Cu-O Nanowires and Nanotubes by Electrochemical Method**
KAYA H., ATALAY F., AVSAR D., YAGMUR V., ATALAY S.
ACTA PHYSICA POLONICA A, cilt.123, sa.2, ss.209-211, 2013 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **Torsion sensor based on the coil-less fluxgate effect**
ATALAY S., BAYRİ N., FIDAN A., ATALAY F., YAGMUR V.
SENSORS AND ACTUATORS A-PHYSICAL, cilt.178, ss.100-103, 2012 (SCI-Expanded)
- XLII. **Investigation of a weak magnetic field effect on the in vitro catalytic activity of adenosine deaminase and xanthine oxidase**
BATÇIOĞLU K., Dogan M., UYUMLU A. B., SATILMIŞ B., BAYRİ N., ATALAY S., Demirtas H.
GENERAL PHYSIOLOGY AND BIOPHYSICS, cilt.30, sa.4, ss.410-414, 2011 (SCI-Expanded)
- XLIII. **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)
- XLIV. **Coil-less fluxgate effect in CoNiFe/Cu wire electrodeposited under torsion**
ATALAY S., YAGMUR V., ATALAY F., BAYRİ N.

- JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.323, sa.22, ss.2818-2822, 2011 (SCI-Expanded)
- XLV. **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)
- XLVI. **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)
- XLVII. **Nanowires of Lead-Free Solder Alloy SnCuAg**
ATALAY F., AVSAR D., KAYA H., YAGMUR V., ATALAY S., SEÇKİN T.
JOURNAL OF NANOMATERIALS, cilt.2011, 2011 (SCI-Expanded)
- XLVIII. **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)
- XLIX. **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**
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- L. **Influence of Ge and Bi substitution on the magnetic and magnetocaloric properties of LaFe_{11.4}Si_{1.6}**
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- LI. **Coil-less fluxgate effect in amorphous wires**
ATALAY S., BAYRİ N., İZGİ T., ATALAY F., KOLAT V. S.
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- LII. **The effect of back electrode on the formation of electrodeposited CoNiFe magnetic nanotubes and nanowires**
ATALAY F., KAYA H., YAGMUR V., Tari S., ATALAY S., AVSAR D.
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- LIII. **The synthesis of ferromagnetic La_{0.75}Ca_{0.25}MnO₃ nanowires by a sol-gel method**
ATALAY F., YAGMUR V., ATALAY S., KAYA H., Tari S., AVSAR D.
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- LIV. **Metamagnetic transition and magnetocaloric effect in charge-ordered Pr_{0.68}Ca_{0.32-x}Sr_xMnO₃ (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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- LV. **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.
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- LVI. **Effect of tensile stress on magnetoimpedance properties of CoNiFe/Cu wire**
BAYRİ N., KOLAT V. S., KAYA H., ATALAY F., İZGİ T., ATALAY S.
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- LVII. **Production of LaFe_{11.4}Si_{1.6} compound at high temperature with a very short annealing time**
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- LVIII. **Influences of deposition time and pH on magnetic NiFe nanowires fabrication**
Atalay F., Kaya H., ATALAY S., Tari S.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.469, ss.458-463, 2009 (SCI-Expanded)
- LIX. **Crystallization kinetics of Fe_{73.5-x}Mn_xCu₁Nb₃Si_{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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- LX. **Magnetocaloric effect in CeCo₄B compound**
GENÇER H., Kervan N., Gencer A., GÜNEŞ A., ATALAY S.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.466, ss.1-4, 2008 (SCI-Expanded)
- LXI. **LaBaMnO films produced by dip-coating on a quartz substrate**
GENÇER H., GUNES M., Goktas A., Babur Y., Mutlu H. I., ATALAY S.
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- LXII. **Fluxgate effect in twisted magnetic wire**
BUTTA M., RIPKA P., ATALAY S., ATALAY F., Li X. P.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.320, sa.20, 2008 (SCI-Expanded)
- LXIII. **Magnetoimpedance effect of current-annealed CoNiFe/Cu microtubes**
ATALAY F., KAYA H., ATALAY S.
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- LXIV. **Electrical transport and magnetoresistance properties of La(0.67)Ca(0.33)MnO₃ film coated on pyrex glass substrate**
GENÇER H., Goktas A., GUNES M., Mutlu H. I., ATALAY S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.22, sa.5, ss.497-506, 2008 (SCI-Expanded)
- LXV. **Rapid synthesis and characterization of maghemite nanoparticles**
Tural B., Oezenbas M., ATALAY S., Volkan M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, cilt.8, sa.2, ss.861-866, 2008 (SCI-Expanded)
- LXVI. **Magnetic and magnetoimpedance properties of NiFe and conife films produced by electrodeposition technique**
ATALAY F., KAYA H., ATALAY S.
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- LXVII. **Field-dependent young's modulus and magnetoimpedance in electrodeposited NiFe and NiFeCo microtubes**
ATALAY S., Atalay F., KAYA H.
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- LXVIII. **Effect of B-doping on the structural, magnetotransport and magnetocaloric properties of La_{0.67}Ca_{0.33}MnO₃ compounds**
KOLAT V. S., Gencer H., GUNES M., ATALAY S.
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- LXIX. **Microstructure and magnetoresistance of a La_{0.67}Ca_{0.33}MnO₃ film produced using the dip-coating method**
GUNES M., Gencer H., KOLAT V. S., VURAL S., MUTLU H. I., SECKIN T., ATALAY S.
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- LXX. **Infrared, structural and magnetic properties of La_{0.67}Ca_{0.33}MnO₃ compound**
ADIGUZEL H. İ., KOLAT V. S., Gencer H., SECKIN T., ATALAY S.
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- LXXI. **Magnetic entropy-change in La_{0.67-x}BixCa_{0.33}MnO₃ compound**
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