

Prof. HÜSEYİN GENÇER

Personal Information

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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1994 - 1998

Post Graduate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1990 - 1992

Under Graduate, Inonu University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1985 - 1989

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Antiferromagnetik Sistemlerde Dejenereliği Kaldıran Fiziksel Etkileşmeler, Inonu University, Fen Bilimleri Enstitüsü, Fizik, 1998

Post Graduate, Wilson GF Matris Yöntemi İle Bazı Klorluethanların Titreşim Frekanslarının Hesaplanması, Inonu University, Fen Bilimleri Enstitüsü, Fizik, 1992

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Magnetic Properties and Materials, Natural Sciences

Academic Titles / Tasks

Professor, Inonu University, Fen Edebiyat Fakültesi, Fizik, 2014 - Continues

Associate Professor, Inonu University, Fen Edebiyat Fakültesi, Fizik, 2008 - 2014

Assistant Professor, Inonu University, Fen Edebiyat Fakültesi, Fizik, 1998 - 2008

Research Assistant, Inonu University, Fen Edebiyat Fakültesi, Fizik, 1990 - 1998

Professional Experience

BAP Scientific Commissioner, Inonu University, 2013 - 2016

Director of Vocational School, Inonu University, Akçadağ Myo, 2013 - 2016

Member of the Senate, Inonu University, 2013 - 2016

Deputy Head of Department, Inonu University, Fen Edebiyat Fakültesi, Fizik, 2003 - 2008

Advising Theses

GENÇER H., Manyetokalorik Malzemelerde Farklı Entropi Hesaplama Yöntemleri, Post Graduate, Ü.Eştürk(Student), Continues

GENÇER H., Pr_{0.68}Ca_{0.32-x}Bi_xMnO₃ (x=0, 0.1, 0.18, 0.26, 0.32) alaşımlarının manyetodirenç ve manyetokalorik özelliklerinin incelenmesi, Doctorate, M.Pektaş(Student), Continues

GENÇER H., İki merkezli geçiş metali içeren komplekslerde manyetik exchange etkileşimlerinin hesaplanması,, Post Graduate, B.Gölgeli(Student), 2014

GENÇER H., La_{0.67}Ca_{0.33}MnO₃ alaşımında Ag katkılamanın iletkenlik ve manyetik özellikleri üzerine etkisi, Post Graduate, M.Pektaş(Student), 2011

GENÇER H., Overlap integralinin moleküler orbital enerji hesaplamalarına etkisi, Post Graduate, E.Barişkaner(Student), 2003

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

- I. **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, vol.31, no.18, pp.15731-15741, 2020 (Journal Indexed in SCI)
- II. **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, vol.135, pp.100-105, 2019 (Journal Indexed in SCI Expanded)
- III. **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, vol.29, no.9, pp.2443-2450, 2016 (Journal Indexed in SCI)
- IV. **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, vol.129, no.1, pp.84-87, 2016 (Journal Indexed in SCI)
- V. **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, vol.354, pp.337-341, 2015 (Journal Indexed in SCI)
- VI. **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, vol.28, no.7, pp.2071-2075, 2015 (Journal Indexed in SCI)
- VII. **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, no.6, pp.2591-2597, 2015 (Journal Indexed in SCI)
- VIII. **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, vol.628, pp.1-8, 2015 (Journal Indexed in SCI)
- IX. **YIG Film for Magnetic Field Sensor**
KAYA A., ATALAY S., GENÇER H., KAYA O. A. , KOLAT V. S. , İZGİ T.
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.937-939, 2015 (Journal Indexed in SCI)
- X. **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, vol.372, pp.112-116, 2014 (Journal Indexed in SCI)
- XI. **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, vol.125, no.2, pp.217-219, 2014 (Journal Indexed in SCI)
- XII. **Production of LaCaMnO₃ Composite by Ball Milling**
GENÇER H., CENGİZ N. E. , KOLAT V. S. , İZGİ T., ATALAY S.
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.214-216, 2014 (Journal Indexed in SCI)
- XIII. **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, vol.379, pp.185-191, 2013 (Journal Indexed in SCI)
- XIV. **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.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.365, pp.99-104, 2013 (Journal Indexed in SCI)
- XV. **Magnetic and magnetocaloric properties of GdB₂ compound**
GENÇER H., İZGİ T., KOLAT V. S. , ATALAY S.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.6, pp.875-878, 2012 (Journal Indexed in SCI)
- XVI. **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, vol.17, no.3, pp.176-184, 2012 (Journal Indexed in SCI)
- XVII. **Magnetic and Magnetocaloric Properties of (Gd_{1-x}Ce_x)Al-2 (x=0, 0.25, 0.5, 0.75) Compounds**
GENÇER H., İZGİ T., KOLAT V. S. , KAYA A., ATALAY S.
JOURNAL OF MAGNETICS, vol.16, no.4, pp.337-341, 2011 (Journal Indexed in SCI)
- XVIII. **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, vol.25, no.25, pp.3303-3313, 2011 (Journal Indexed in SCI)
- XIX. **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, vol.13, pp.648-655, 2011 (Journal Indexed in SCI)
- XX. **SIZE-INDUCED EFFECTS IN NANOSTRUCTURED NiFe₂O₄**
GUNES M., GENÇER H., İZGİ T., KOLAT V. S. , ATALAY S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.24, no.30, pp.5973-5985, 2010 (Journal Indexed in SCI)
- XXI. **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, vol.12, no.5, pp.1129-1134, 2010 (Journal Indexed in SCI)
- XXII. **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.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.322, no.4, pp.427-433, 2010 (Journal Indexed in SCI)
- XXIII. **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, vol.355, pp.2562-2566, 2009 (Journal Indexed in SCI)
- XXIV. **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.

- JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.11, no.8, pp.1106-1110, 2009 (Journal Indexed in SCI)
- XXV. **Crystallization kinetics of Fe_{73.5-x}Mn_xCu₁Nb₃Si_{13.5}B₉ (x=0, 1, 3, 5, 7) amorphous alloys**
BAYRI N., İZGİ T., GENÇER H., SOVAK P., GUNES M., ATALAY S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.355, no.1, pp.12-16, 2009 (Journal Indexed in SCI)
- XXVI. **Magnetocaloric effect in CeCo₄B compound**
GENÇER H., Kervan N., Gencer A., GÜNEŞ A., ATALAY S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.466, pp.1-4, 2008 (Journal Indexed in SCI)
- XXVII. **LaBaMnO films produced by dip-coating on a quartz substrate**
GENÇER H., GUNES M., Goktas A., Babur Y., Mutlu H. I. , ATALAY S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.465, pp.20-23, 2008 (Journal Indexed in SCI)
- XXVIII. **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, vol.22, no.5, pp.497-506, 2008 (Journal Indexed in SCI)
- XXIX. **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.
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.140, no.3, pp.212-217, 2007 (Journal Indexed in SCI)
- XXX. **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.
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.136, no.1, pp.41-45, 2007 (Journal Indexed in SCI)
- XXXI. **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.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.21, no.1, pp.43-53, 2007 (Journal Indexed in SCI)
- XXXII. **Magnetic entropy-change in La_{0.67-x}BixCa_{0.33}MnO₃ compound**
ATALAY S., KOLAT V. S. , Gencer H., ADIGUZEL H. İ.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.305, no.2, pp.452-456, 2006 (Journal Indexed in SCI)
- XXXIII. **Microstructure and magnetoresistance in La_{0.67}Ca_{0.33}Mn_{1-x}V_xO₃ (x=0, 0.03, 0.06, 0.1, 0.15 and 0.25) compound**
Gencer H., KOLAT V. S. , ATALAY S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.422, pp.40-45, 2006 (Journal Indexed in SCI)
- XXXIV. **Magnetic entropy change in a two-dimensional antiferromagnetic square lattice**
Gencer H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.20, no.18, pp.2527-2536, 2006 (Journal Indexed in SCI)
- XXXV. **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, vol.371, no.2, pp.199-204, 2006 (Journal Indexed in SCI)
- XXXVI. **The range of exchange interactions and curie temperature in La_{0.67-x}BixCa_{0.33}MnO₃ compounds**
Gencer H., ATALAY S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.19, no.27, pp.4115-4123, 2005 (Journal Indexed in SCI)
- XXXVII. **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, vol.351, pp.2373-2377, 2005 (Journal Indexed in SCI)
- XXXVIII. **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, vol.357, pp.326-333, 2005 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

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 August - 04 September 2014

Supported Projects

GENÇER H., TUBITAK Project, Magnonik kristaller, 2012 - 2015

GENÇER H., TUBITAK Project, LaFeSi ve katkılanmış LaFeSi malzemelerde manyetokalorik etki, 2007 - 2009

GENÇER H., Project Supported by Other Official Institutions, Bor katkılı ferromanyetik malzemeler ve uygulamaları, 2006 - 2008

GENÇER H., TUBITAK Project, İnce film manganitlerde colossal manyetodirenç ve manyetoempedans, 2005 - 2007

Citations

Total Citations (WOS):500

h-index (WOS):11