

Prof. HÜSEYİN GENÇER

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International Researcher IDs

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Education Information

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

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1990 - 1992

Undergraduate, 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

Postgraduate, 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

Academic and Administrative Experience

Inonu University, 2013 - 2016

Inonu University, 2013 - 2016

Inonu University, Akçadağ Myo, 2013 - 2016

Inonu University, Fen Edebiyat Fakültesi, Fizik, 2003 - 2008

Courses

Fizik İçin Mat, Undergraduate, 2013-2014

Elekt. ve Manyt. Lab, Undergraduate, 2013-2014

Fizikte Matematik Yöntemler, Undergraduate Double Major, 2013-2014

Kuantum Fiziği, Undergraduate, 2013-2014

Fizik İçin Mat., Undergraduate, 2012-2013

Manyetodirenç-II, Undergraduate Minor, 2012-2013

Kuantum Fiziği, Undergraduate, 2012-2013

Manyetodirenç-I, Undergraduate Minor, 2012-2013

Fizikte Matematik Yöntemler, Undergraduate Double Major, 2012-2013

Genel Fizik, Undergraduate, 2012-2013

Dalgalar Lab., Undergraduate, 2012-2013

Elektrik Lab, Undergraduate, 2011-2012

Kuantum Lab, Undergraduate, 2011-2012

Fizikte Matematik Yöntemler, Undergraduate Double Major, 2011-2012

Kathal Manyetizması, Undergraduate Minor, 2011-2012

Kuantum Fiziği, Undergraduate, 2011-2012

Fizik İçin Mat., Undergraduate, 2011-2012

Kuantum Fiziği, Undergraduate, 2010-2011

Kuantum Lab., Undergraduate, 2010-2011

Fizik için Matematik, Undergraduate, 2010-2011

Genel Fizik, Undergraduate, 2010-2011

Fizikte Matematik Yöntemler, Undergraduate Double Major, 2010-2011

Fizik için Matematik, Undergraduate, 2010-2011

Kathal Manyetizması, Undergraduate Minor, 2009-2010

Kuantum Fiziği, Undergraduate, 2009-2010

Fizik için Matematik, Undergraduate, 2009-2010

Fizik için matematik, Undergraduate, 2008-2009

İstatistik Lab., Undergraduate, 2008-2009

Genel Fizik, Undergraduate, 2008-2009

Fizikte Matematik Yöntemler, Undergraduate Double Major, 2008-2009

Supervised Theses

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

GENÇER H., Pr_{0.68}Ca_{0.32-x}BixMnO₃ (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,, Postgraduate, B.Gölgeli(Student), 2014

GENÇER H., La_{0.67}Ca_{0.33}Mno₃ alaşımında Ag katkılamanın iletkenlik ve manyetik özellikleri üzerine etkisi, Postgraduate, M.Pektaş(Student), 2011

GENÇER H., Overlap integralinin moleküler orbital enerji hesaplamalarına etkisi, Postgraduate, E.Barışkaner(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- 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., Pektaş M., ATALAY S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.27, pp.21778-21795, 2022 (SCI-Expanded)
- II. **Magnetic and Magnetocaloric Properties of Pr₂Fe_{17-x}Cu_x Intermetallic Compounds**
Cengiz N. E., Pektaş M., KOLAT V. S., İZGİ T., GENÇER H., BAYRİ N., ATALAY S.
JOURNAL OF MAGNETICS, vol.26, no.3, pp.332-340, 2021 (SCI-Expanded)
- III. **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**
Pektaş 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 (SCI-Expanded)
- IV. **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 (SCI-Expanded)
- V. **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., PEKTAŞ M., KOLAT V. S., ATALAY S.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.9, pp.2443-2450, 2016 (SCI-Expanded)
- VI. **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 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **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 (SCI-Expanded)
- XIX. **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, vol.16, no.4, pp.337-341, 2011 (SCI-Expanded)
- XX. **THE VARIATION OF EXCHANGE CONSTANT AND MAGNETOCALORIC EFFECT IN LaFe_{13-x}Si₆ (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 (SCI-Expanded)
- XXI. **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 (SCI-Expanded)
- XXII. **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 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **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 (SCI-Expanded)
- XXVII. **Crystallization kinetics of Fe_{73.5-x}MnxCu₁Nb₃Si_{13.5}B₉ (x=0, 1, 3, 5, 7) amorphous alloys**
BAYRİ N., İZGİ T., GENÇER H., SOVAK P., GUNES M., ATALAY S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.355, no.1, pp.12-16, 2009 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)

- XXIX. **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 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **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 (SCI-Expanded)
- XXXVII. **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 (SCI-Expanded)
- XXXVIII. **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 (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, vol.351, pp.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, vol.357, pp.326-333, 2005 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Surface Modification Of Yig 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., ATALAY S., İZGİ T., KOLAT V. S., Project Supported by Higher Education Institutions, Pr06Ca04Mn1xAxO3 ve Pr06Ca04Mn1xAxO3 A Ru ve Au numunelerinin manyetik ve manyetokalorik özelliklerinin incelenmesi, 2019 - 2020

GENÇER H., Project Supported by Higher Education Institutions, İNÖNÜ ÜNİVERSİTESİ AKÇADAĞ MESLEK YÜKSEKOKULU BİLGİSAYAR TEKNOLOJİSİ VE PROGRAMLAMA PROGRAMI BİLGİSAYAR LABORATUVARI ALTYAPI PROJESİ, 2016 - 2018

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 katkıli ferromanyetik malzemeler ve uygulamaları, 2006 - 2008

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

Metrics

Publication: 41

Citation (WoS): 640

Citation (Scopus): 502

H-Index (WoS): 13

H-Index (Scopus): 11