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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Birmingham, Birleşik Krallık 1989 - 1994

Yüksek Lisans, The University of Sussex, Fizik , Birleşik Krallık 1988 - 1989

Lisans, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1982 - 1986

Yaptığı Tezler

Yüksek Lisans, AA Alınanlık Kriyostat tasarım ve Yapımı, The University of Sussex, Fizik , 1989

Araştırma Alanları

Fizik, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2004 - Devam Ediyor

Doç.Dr., Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1996 - 2004

Yrd.Doç.Dr., Ankara Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1994 - 1996

Verdiği Dersler

FİZİK II, Lisans, 2013 - 2014, 2012 - 2013

FİZİK I, Lisans, 2013 - 2014, 2012 - 2013

UYGULAMALI SÜPERİLETKENLİĞİN TEMELLERİ, Yüksek Lisans, 2012 - 2013

İLERİ MALZEME FİZİĞİ I, Yüksek Lisans, 2012 - 2013

ELEKTROMANYETİK DALGALAR, Lisans, 2012 - 2013

KUANTUM FİZİĞİ LABORATUARI, Lisans, 2012 - 2013

İLERİ MALZEME FİZİĞİ II, Yüksek Lisans, 2012 - 2013

Yönetilen Tezler

GENÇER A., Bi-2223 süperiletken bobin/şerit tasarımı, yapımı ve AA karakterizasyonu: Manyetik enerji depolama kapasitesinin incelenmesi, Doktora, E.ŞİMŞEK(Öğrenci), 2018

GENÇER A., Karbon katkılanırılmış nano bor ilaveli bi-2223 süperiletken yığın ve tellerin üretimi ve karakterizasyonu, Yüksek Lisans, H.ÖZTÜRK(Öğrenci), 2017

GENÇER A., İndüktif tip süperiletken hatalı akım sınırlayıcı cihaz tasarımı ve çalıştırılması, Doktora, S.GEÇER(Öğrenci), 2017

GENÇER A., Süperiletken hatalı akım sınırlayıcı (SHAS) tasarımı, üretimi ve karakterizasyonu, Doktora, E.ERTEKİN(Öğrenci), 2016

GENÇER A., Organik bileşik katkılı MgB₂ süperiletken tellerin üretimi ve fiziksel karakterizasyonu, Doktora, H.AĞIL(Öğrenci), 2014

GENÇER A., Farklı formlarda süperiletken tellerde transport ve alternatif akım kayıp özelliklerinin kıyaslanması, Doktora, Ö.ÇİÇEK(Öğrenci), 2014

GENÇER A., B₄C katkılanırılmış MgB₂ süperiletkeninin fiziksel özellikleri, Yüksek Lisans, S.KHANKESHIZADEH(Öğrenci), 2012

GENÇER A., Aromatik hidrokarbon katkılı MgB₂ süperiletkenlerin elektromanyetik karakterizasyonu, Doktora, M.GÜNGÖR(Öğrenci), 2012

GENÇER A., SiC katkılanırılmış MgB₂ süperiletkenin manyetik karakterizasyonu, Yüksek Lisans, D.BUMİN(Öğrenci), 2010

GENÇER A., MgB₂ süperiletken tellerde alternatif akım kaybı ve akı perçinleme mekanizmaları, Doktora, S.SAFRAN(Öğrenci), 2010

GENÇER A., C katkılanırılmış MgB₂ süper iletkeninin fiziksel özellikleri, Yüksek Lisans, E.ERTEKİN(Öğrenci), 2010

GENÇER A., Bor esaslı intermetalik bileşiklerin manyetik,yapısal ve termal karakterizasyonu, Yüksek Lisans, H.AĞIL(Öğrenci), 2008

GENÇER A., Nano boyutta Fe₃O₄ katkılanırılmış MgB₂ süper iletkenin manyetik karakterizasyonu, Yüksek Lisans, Ö.ÇİÇEK(Öğrenci), 2007

GENÇER A., Nano boyutta katkılanırılmış MgB₂ süperiletkenin manyetik karakterizasyonu, Ö.ÇİÇEK(Öğrenci), 2007

GENÇER A., Nadir toprak elementli bileşiklerin manyetik, yapısal ve termal karakterizasyonu, Yüksek Lisans, E.AKGÜN(Öğrenci), 2007

GENÇER A., Yüksek teknoloji ürünü malzemelerin magnetik karakterizasyonu, Doktora, A.KILIÇ(Öğrenci), 2005

GENÇER A., Süperiletkenlerin magnetik özelliklerinin modelleme ve ölçme teknikleri ile incelenmesi, Doktora, N.GÜÇLÜ(Öğrenci), 2003

GENÇER A., Yüksek sıcaklık süperiletkenlerde AC kayıpların incelenmesi, Yüksek Lisans, M.ŞEYLAN(Öğrenci), 2000

GENÇER A., Yüksek sıcaklık süperiletken malzemelerin üretimi ve fiziksel özelliklerinin tayini, Yüksek Lisans, A.KILIÇ(Öğrenci), 2000

GENÇER A., Yüksek sıcaklık süperiletkenlerde magnetik ve elektrik özelliklerin incelenmesi, Yüksek Lisans, E.AKSU(Öğrenci), 1998

GENÇER A., Yüksek sıcaklık süperiletken (YSS) malzemelerin fiziksel özelliklerinin incelenmesi, Yüksek Lisans, A.BABACAN(Öğrenci), 1996

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The 6th International Conference on Superconductivity and Magnetism-ICSM2018, Kemer-Antalya, Turkey: a Dedication to Science and Technology**
GENÇER A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.32, sa.9, ss.2717-2720, 2019 (SCI-Expanded)
- II. **Test of 6-kVA Three-Phase Flux Transfer-Type Current-Limiting Transformer**
Ertekin E., Gecer S., Yanmaz E., Safran S., Kosa J., Kilicarslan E. S., Kilic A., Amemiya N., Gencer A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.12, ss.3549-3553, 2017 (SCI-Expanded)
- III. **Role of Aniline Addition in Structural and Superconducting Properties of MgB₂ Bulk Superconductor**
AĞIL H., Aksu E., GENÇER A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.10, ss.2735-2740, 2017 (SCI-Expanded)
- IV. **The Effects of Structural, Thermal, and Magnetic Properties of Hexylbenzene-Doped MgB₂**

Superconductor

AĞIL H., Aksu E., AKTÜRK S., GENÇER A.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.7, ss.1727-1736, 2017 (SCI-Expanded)

- V. **On the Highlights of the Fifth International Conference on Superconductivity and Magnetism-ICSM 2016, Fethiye, Turkey**
GENÇER A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.3, ss.715-719, 2017 (SCI-Expanded)
- VI. **Changes in mechanical and structural properties of Bi-2212 added MgB₂ superconductors**
Koparan E. T., Savaskan B., Ozturk O., Kaya S., Aksoy C., Wang J., Speller S. C., Grovenor C. R. M., Gencer A., Yanmaz E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.27, sa.6, ss.6060-6070, 2016 (SCI-Expanded)
- VII. **Switching and Decoupling Effects in a Single-Phase Transformer Using Extra DC Current**
Gecer S., Ertekin E., Yanmaz E., Kosa J., Safran S., Ozguzel R., Kilicarslan E. S., Kilic A., Gencer A.
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, cilt.26, sa.3, 2016 (SCI-Expanded)
- VIII. **Influence of Nanostructural Inhomogeneities on Superconducting Characteristics of MgB₂**
Prihna T., Eisterer M., Gencer A., Weber H. W., Gawalek W., Akdogan M., Kovylaev V., Moshchil V., Kozyrev A., Karpets M., et al.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.2, ss.525-530, 2015 (SCI-Expanded)
- IX. **On the Highlights of the 4(th) International Conference on Superconductivity and Magnetism-ICSM2014, Antalya, Turkey PREFACE**
Gencer A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.2, ss.279-283, 2015 (SCI-Expanded)
- X. **High-Field Pinning Potential in YBCO Films with Nanoengineered Pinning Centres**
Collazos J. C., Guner S. B., Celik M. E., Oprea A., Gencer A., Crisan A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.28, sa.2, ss.355-360, 2015 (SCI-Expanded)
- XI. **AC susceptibility analysis on MgB₂ bulk and Ti-sheathed wire superconductors**
Cicek O., Yetis H., GENÇER A.
CRYOGENICS, cilt.63, ss.143-147, 2014 (SCI-Expanded)
- XII. **Fabrication and characterization of C15H12O₂ doped MgB₂ bulk superconductors**
Agil H., Yetis H., Akdogan M., Altug C., Akturk S., Gencer A.
CRYOGENICS, cilt.63, ss.138-142, 2014 (SCI-Expanded)
- XIII. **Special Section: CHATS in Applied Superconductivity 2013**
Gencer A., Nishimura A.
CRYOGENICS, cilt.63, ss.102, 2014 (SCI-Expanded)
- XIV. **The role of various boron precursor on superconducting properties of MgB₂/Fe**
Safran S., Kilicarslan E., Kilic A., Gencer A.
CRYOGENICS, cilt.63, ss.133-137, 2014 (SCI-Expanded)
- XV. **Influence of different boron precursors on superconducting and mechanical properties of MgB₂**
Safran S., Kilic A., Asikuzun E., Kilicarslan E., Ozturk O., Gencer A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.25, sa.6, ss.2737-2747, 2014 (SCI-Expanded)
- XVI. **Experimentally Determined Magnetization ac Losses of Mono and Multifilamentary MgB₂ Wires**
Safran S., Souc J., Goemoery F., Kovac P., Gencer A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.26, sa.5, ss.1557-1561, 2013 (SCI-Expanded)
- XVII. **Effects of MgO on the Electronic and Superconducting Properties in Succinic Acid (C₄H₆O₄) Doped MgB₂ Bulks**
Agil H., Cicek O., Ertekin E., Motaman A., Hossain M. S. A., Dou S. X., Gencer A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.26, sa.5, ss.1525-1529, 2013 (SCI-Expanded)
- XVIII. **On the reflection of 3rd international conference on superconductivity and magnetism - ICSM2012, between 29th April-4th May, 2012, Istanbul, Turkey**
GENÇER A.
Journal of Superconductivity and Novel Magnetism, cilt.26, sa.4, ss.739-741, 2013 (SCI-Expanded)
- XIX. **Structurally homogeneous MgB₂ superconducting wires through economical wet mixing process**

- Hossain M. A., Motaman A., Xu X., See K. W., Çiçek Ö., Ağıl H., Ertekin E., GENÇER A., Cheong K., Maeda M., et al. *Materials Letters*, cilt.91, ss.356-358, 2013 (SCI-Expanded)
- XX. **The effects of annealing temperature on the in-field J_c and surface pinning in silicone oil doped MgB_2 bulks and wires**
Hossain M., Motaman A., Çiçek Ö., Ağıl H., Ertekin E., GENÇER A., Wang X., Dou S. *Cryogenics*, cilt.52, sa.12, ss.755-759, 2012 (SCI-Expanded)
- XXI. **Special Issue Papers: ACASC 2011 Preface**
Roy A., Datta T. S., Amemiya N., Bhandari R. K., Chang H., Chen J., Gencer A., Haruyama T., Kaw P. K., Li L., et al. *CRYOGENICS*, cilt.52, sa.12, ss.637, 2012 (SCI-Expanded)
- XXII. **Microstructural and superconducting properties of C 6H 6 added bulk MgB_2 superconductor**
Babaoglu M. G., SAFRAN S., Çiçek Ö., Ağıl H., Ertekin E., Hossain M. A., Yanmaz E., GENÇER A. *Journal of Magnetism and Magnetic Materials*, cilt.324, sa.21, ss.3455-3459, 2012 (SCI-Expanded)
- XXIII. **Fabrication and transport critical current densities of $MgB_2/Fe/Cu$ multifilament tapes without any intermediate annealing**
Yucel E., Terzioğlu C., Varilci A., GENÇER A., Belenli I. *Acta Physica Polonica A*, cilt.121, sa.3, ss.660-665, 2012 (SCI-Expanded)
- XXIV. **Reflection on the 2nd international conference on superconductivity and magnetism-ICSM2010**
GENÇER A. *Journal of Superconductivity and Novel Magnetism*, cilt.24, sa.5, ss.1371-1374, 2011 (SCI-Expanded)
- XXV. **Transport AC Loss Measurements and Simulations in Bi-2223/Ag Tape with Ni Cover at the Edges**
Çiçek Ö., Gömöry F., Gencer A. *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*, cilt.24, sa.1-2, ss.391-394, 2011 (SCI-Expanded)
- XXVI. **AC losses of monofilament Ti-clad MgB_2 wire**
Safran S., Šouc J., Rostila L., Brisigotti S., Gömöry F., GENÇER A. *Journal of Superconductivity and Novel Magnetism*, cilt.24, sa.1-2, ss.437-441, 2011 (SCI-Expanded)
- XXVII. **Fabrication and superconducting properties of ex-situ processed MgB_2/Fe monofilament tapes without any intermediate annealing**
Yucel E., Terzioğlu C., Varilci A., GENÇER A., Belenli I. *Chinese Journal of Physics*, cilt.49, sa.3, ss.809-821, 2011 (SCI-Expanded)
- XXVIII. **Magnetic characterization of SiC doped bulk MgB_2 superconductor**
Bumin D., Yanmaz E., Basoglu M., GENÇER A. *Journal of Superconductivity and Novel Magnetism*, cilt.24, sa.1-2, ss.211-215, 2011 (SCI-Expanded)
- XXIX. **Low field AC susceptibility study of YBCO prepared by top seeded melt growth**
Güçlü N., Yeşilkanat C., Ağıl H., Doğan F., GENÇER A., Kölemen U. *Journal of Superconductivity and Novel Magnetism*, cilt.24, sa.1-2, ss.261-264, 2011 (SCI-Expanded)
- XXX. **Critical current and AC loss of DI-BSCCO tape modified by the deposition of ferromagnetic layer on edges**
SAFRAN S., Vojenciak M., GENÇER A., Gömöry F. *IEEE Transactions on Applied Superconductivity*, cilt.20, sa.5, ss.2294-2300, 2010 (SCI-Expanded)
- XXXI. **AC loss in stacks of Bi-2223/Ag tapes modified with ferromagnetic covers at the edges**
Safran S., Gömöry F., GENÇER A. *Superconductor Science and Technology*, cilt.23, sa.10, 2010 (SCI-Expanded)
- XXXII. **Magnetic properties and magnetocaloric effect of $Ce_2GdCo_{11}B_4$ boride**
Kervan N., Kervan S., Sözeri H., GENÇER A. *Materials Chemistry and Physics*, cilt.116, sa.2-3, ss.586-588, 2009 (SCI-Expanded)
- XXXIII. **Magnetic properties of $Ce_{3-x}Gd_xCo_{11}B_4$ borides**
Kervan N., Kervan S., Sözeri H., GENÇER A. *Journal of Alloys and Compounds*, cilt.480, sa.2, ss.216-219, 2009 (SCI-Expanded)
- XXXIV. **Magnetic properties of the $PrCo_4 - xNi_xB$ borides**
Ağıl H., Kervan N., Kervan S., Sözeri H., GENÇER A. *Journal of Alloys and Compounds*, cilt.478, sa.1-2, ss.437-440, 2009 (SCI-Expanded)

- XXXV. **The International Conference on Superconductivity and Magnetism (ICSM2008) (Side, Turkey, 25-29 August 2008)**
 GENÇER A., Grasso G.
 Superconductor Science and Technology, cilt.22, sa.3, 2009 (SCI-Expanded)
- XXXVI. **Magnetic properties of the $\text{Pr}(1-x)\text{Gd}(x)\text{Co}_4\text{B}$ compounds**
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 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.320, sa.21, ss.2839-2843, 2008 (SCI-Expanded)
- XXXVII. **Effects of the substitution of gadolinium for neodymium on the crystal and magnetic properties of the $\text{Nd}(1-x)\text{Gd}(x)\text{Co}_4\text{B}$ compounds**
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- XXXVIII. **Magnetocaloric effect in CeCo_4B compound**
 Gencer H., Kervan N., Gencer A., GÜNEŞ M., Atalay S.
 JOURNAL OF ALLOYS AND COMPOUNDS, cilt.466, sa.1-2, ss.1-4, 2008 (SCI-Expanded)
- XXXIX. **Effects of Nb_2O_5 addition on superconducting properties of BSCCO**
 Ghazanfari N., Kilic A., Gencer A., Oezkan H.
 SOLID STATE COMMUNICATIONS, cilt.144, sa.5-6, ss.210-214, 2007 (SCI-Expanded)
- XL. **Low-field AC susceptibility in $\text{Pr}_{1-x}\text{Ho}_x\text{Mn}_2\text{Ge}_2$**
 Kilic A., Kervan N., Kervan S., Gencer A., Ozkan H.
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- XLI. **AC susceptibility study of a multi-filamentary $\text{Bi-2212}/\text{Ag}$ superconducting tape**
 Gencer A., Aksu E., Ozogul Ö., Yakinci M. E.
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- XLII. **Effect of cooling rates on bare bulk and silver wrapped pellets of Bi-2223 superconductor**
 Terzioğlu C., Oztürk O., Kilic A., Gencer A., Belenli I.
 PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, cilt.434, sa.2, ss.153-156, 2006 (SCI-Expanded)
- XLIII. **Influence of Ho substitution for Nd on magnetic properties of the $\text{Nd}_{1-x}\text{Ho}_x\text{Mn}_2\text{Ge}_2$ germanides**
 Kervan N., Kilic A., Kervan S., Gencer A.
 SOLID STATE COMMUNICATIONS, cilt.138, sa.2, ss.55-59, 2006 (SCI-Expanded)
- XLIV. **Magnetic behavior in $\text{Ce}_{1-x}\text{Tb}_x\text{Mn}_2\text{Si}_2$ silicides by XRD, DSC and AC susceptibility measurements**
 Kervan S., Kilic A., Aksu E., Gencer A.
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- XLV. **Magnetic properties of $\text{Tb}_{1-x}\text{Sm}_x\text{Mn}_2\text{Si}_2$ silicides**
 Kilic A., Kervan S., Gencer A.
 PHYSICA B-CONDENSED MATTER, cilt.363, sa.1-4, ss.55-60, 2005 (SCI-Expanded)
- XLVI. **Low-field behavior of Ti-added MgB_2/Cu superconducting wires**
 Gencer A., Kilic A., Guclu N., Ozyuzer L., Belenli I.
 IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, cilt.15, sa.2, ss.3352-3355, 2005 (SCI-Expanded)
- XLVII. **Investigation of odd-order harmonic susceptibilities of a bulk $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors using critical state approach**
 Aksu E., Gencer A., Calinli N., Koralay H., Cavdar S.
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- XLVIII. **Magnetism on the $\text{Tb}_{1-x}\text{Nd}_x\text{Mn}_2\text{Si}_2$ silicides**
 Kilic A., Kervan S., ÖZCAN Ş., Gencer A.
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- XLIX. **Low-field magnetic behavior of $\text{LaMn}_2\text{-xNi}_x\text{Si}_2$ silicides**
 Gencer A., Kilic A., Kervan S.
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- L. **Magnetic phase diagram of the intermetallic $\text{LaMn}_2\text{-xCu}_x\text{Si}_2$ silicides**
 Kilic A., Kervan S., Gencer A.
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- LI. **Structural and low-field magnetic characterization of superconducting MgB₂ wires**
Kilic A., Okur S., Guclu N., Koleman U., Uzun O., Ozyuzer L., Gencer A.
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, cilt.415, sa.1-2, ss.51-56, 2004 (SCI-Expanded)
- LII. **Magnetic characterization of intermetallic PrMn₂Ge₂-xSix compounds by AC susceptibility, x-ray diffraction and differential scanning calorimetry studies**
Kervan S., Kilic A., Gencer A.
JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.16, sa.28, ss.4955-4962, 2004 (SCI-Expanded)
- LIII. **A magnetic study of LaMn₂-xCoxSi₂ silicides**
Kervan S., Kilic A., Gencer A.
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- LIV. **Structural and magnetic properties of Gd₁-xPrxMn₂Si₂ silicides**
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- LV. **Magnetic properties of Pr₁-xGdxMn₂Ge₂ compounds**
Kilic A., Kervan S., ÖZCAN Ş., Gencer A.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.370, sa.1-2, ss.47-52, 2004 (SCI-Expanded)
- LVI. **Harmonic generation in an Ag-clad bulk BSCCO superconductor**
Guclu N., Kilic A., Askerzade İ., Gencer A.
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- LVII. **AC susceptibility, XRD and DSC studies of Sm₁-xGdxMn₂Si₂ silicides**
Kervan S., Kilic A., Gencer A.
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- LVIII. **Ac magnetic response of MgB₂ bulk superconductor based on the Anderson-Kim model**
Ozogul Ö., Guclu N., Gencer A.
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- LIX. **Magnetic phase transitions in LaMn₂-xFexSi₂ silicides**
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- LX. **Fundamental and high-order harmonic susceptibilities of a BSCCO(2223) bulk superconductor**
Aksu E., Gencer A., Yilmaz H., Nezir S.
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- LXI. **Investigations of even-order harmonic susceptibilities of MgB₂ superconductors using critical state approach**
Gencer A., Guclu N., Yilmaz H., Kilic A., Askerzade İ., Aksu E., Hascicek Y.
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- LXII. **Harmonic response of a bulk superconductor MgB₂**
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- LXIII. **Degradation of superconducting properties in MgB₂ by formation of the MgB₄ phase**
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- LXIV. **Thermodynamic magnetic field and specific heat jump of a bulk superconductor MgB₂ using two-band Ginzburg-Landau theory**
Askerzade İ., Gencer A.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, cilt.71, sa.7, ss.1637-1639, 2002 (SCI-Expanded)
- LXV. **Two-band Ginzburg-Landau theory for the lower critical field H_{c1} in MgB₂**
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