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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2015 - 2021

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2007 - 2011

Masters (Non-Thesis), Karadeniz Technical University, Fatih Eğitim Fakültesi, Ortaöğretim Fen Matematik Alanları- Fizik Eğitimi, Turkey 2002 - 2007

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, TS EN ISO/IEC 17025 Standardı Eğitimi, TSE Enstitüsü Deney ve Kalibrasyon Başkanlığı, 2014

Education Management and Planning, XRD ve Rietveld- Çimento Uygulamaları Eğitimi, Türkiye Çimento Müstahsilleri Birliği, 2014

Education Management and Planning, Low Temperature Pl/PLE/RT System and Troubleshoot Cihaz, Recep Tayyip Erdoğan Üniversitesi, 2014

Education Management and Planning, Rigaku SmartLAB X-Ray Difraktometresi Cihazı Eğitimi, Tekser A.Ş., 2013

Education Management and Planning, JEOL JSM-6610 Cihazı sertifika Eğitimi, Recep Tayyip Erdoğan Üniversitesi, 2013

Education Management and Planning, TS EN ISO/IEC 17025 Standardı Eğitimi, Recep Tayyip Erdoğan Üniversitesi, 2012

Education Management and Planning, X-Ray Difraktometre Data Collector ve High Score Plus Software Eğitimi, X-Ray Difraktometre Eğitimi, Çanakkale Seramik AR-GE Laboratuvarı, 2012

Education Management and Planning, Spring School & Educational Courses, İnönü Üniversitesi, 2010

Education Management and Planning, International Student Workshop on Condensed Matter and Materials Physics, İnönü üniversitesi, 2009

Dissertations

Doctorate, Cu₂Sn(S,Se)₃ ince filmlerinin üretilmesi ve aygıt özelliklerinin incelenmesi, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2021

Postgraduate, SiC katkılı MgB₂ süperiletkeninin yapısal ve manyetik özellikleri, Karadeniz Technical University, Fen

Bilimleri Enstitüsü, Fizik/Katıhal Fiziği, 2011

Postgraduate, Kırılma ve Mercekler Konularında Çoklu Zeka Kuramı Kapsamında Beyin Fırtınası Tekniği ve Tartışma Yöntemine Uygun Geliştirilen Öğretim Materyallerinin Uygulanması ve Değerlendirilmesi, Karadeniz Technical University, Fatih Eğitim Fakültesi, Ortaöğretim Fen Matematik Alanları- Fizik Eğitimi, 2007

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Superconductivity, Natural Sciences

Academic Titles / Tasks

Lecturer, Recep Tayyip Erdogan University, Rektörlük, Merkezi Araştırma Uygulama Ve Araştırma Merkezi, 2013 - Continues

Lecturer, Hakkari University, Faculty Of Education, Fen Bilgisi Eğitimi, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Improvement in performance of SnSe-based photodetectors via post deposition sulfur diffusion**
Yılmaz S., Başol B. M., POLAT İ., Olğar M. A., BAYAZIT T., KÜÇÜKÖMEROĞLU T., BACAKSIZ E.
Sensors and Actuators A: Physical, vol.372, 2024 (SCI-Expanded)
- II. **Growth and characterization of CT(S,Se) thin films and Al/n-Si/p-CT(S,Se)/Mo heterojunction diode application employing a two-stage process**
Bayazit T., Olğar M. A., Küçükömeroğlu T., Bacaksız E., Tomakin M.
Sensors and Actuators A: Physical, vol.363, 2023 (SCI-Expanded)
- III. **Changing the conductivity type of ultrasonically sprayed ZnO thin films: comparison of the effects of Li, N, and B dopants**
Bayazit T., Güner S. B., Tomakin M.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, pp.1-16, 2023 (SCI-Expanded)
- IV. **Growth and characterization of Cu₂SnS₃ (CTS), Cu₂SnSe₃ (CTSe), and Cu₂Sn(S,Se)₃ (CTSSe) thin films using dip-coated Cu-Sn precursor**
Bayazit T., Olğar M. A., Küçükömeroğlu T., Bacaksız E., Tomakin M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.13, pp.12612-12618, 2019 (SCI-Expanded)
- V. **Properties of MgB₂ Thin Films Deposited on Different Substrates Prepared by Ex-Situ Annealing Process**
Koparan E. T., ÖZTÜRK A., Bayazit T., SURDU A., SIDORENKO A., Yanmaz E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.2, pp.267-271, 2013 (SCI-Expanded)
- VI. **The Magnetic and Structural Properties of SiC-Doped MgB₂ Bulks Prepared by the Standard Ceramic Processing**
Dilek T., Koparan E. T., Basoglu M., Yanmaz E.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, pp.495-497, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Production of Sustainable Low-Layer Graphene by Green Synthesis at Room Conditions for Platinum-Based Direct Methanol Fuel Cell**

ERDURAN V., BAYAT R., IŞIK İ., BAYAZIT T., ŞEN F.

ACS Engineering Au, 2023 - ACS Publications, 2023 (Peer-Reviewed Journal)

II. Measurement of Mass Attenuation Coefficients and Effective Atomic Numbers for MgB₂-xSiC_x (%5) Superconductor Using X- Ray Energies

BAYAZIT T., AKSOY C.

Journal of Investigations on Engineering and Technology, vol.2, no.1, pp.1-7, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Modulation Properties of Cu₂Sn(S_xSe_{1-x})₃ Thin Films Through Various Reaction Temperatures Using Rapid Thermal Processing**
BAYAZIT T., OLGAR M. A., TOMAKIN M., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.
6th International conference on materials science and nanotechnology for next generation (MSNG2019), 16 - 18 October 2019, pp.44
- II. Effects of Acceptor Dopants (Li, N, B) on ZnO Thin Film Prepared by Spray Pyrolysis**
BAYAZIT T., OLGAR M. A., GÜNER S. B., TOMAKIN M., BACAŞIZ E.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 October 2019
- III. EFFECT OF SULFURIZATION TEMPERATURE ON STRUCTURAL PROPERTIESIN Cu₂SnS₃ THIN FILMS**
BAYAZIT T., TOMAKIN M., OLGAR M. A., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.
KARADENİZ 1. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMA KONGRESİ, Giresun, Turkey, 15 - 17 March 2019, pp.164-165
- IV. Investigation of Some Physical Properties of Boron Doped CdS Thin Films Irradiated with Cs 137**
Bozali F., TOMAKIN M., KESKENLER E. F., BAYAZIT T., NEVRUZOĞLU V.
International Physics Conference at the Anatolian Peak, 25 - 27 February 2016
- V. Fabrication and Characterization of Superconducting MgB₂ Thin Film**
TAYLAN KOPARAN E., BAYAZIT T., BAŞOĞLU M., ANDREI S., SIDORENKO A., YANMAZ E.
5th National Superconductivity Symposium, İzmir, Turkey, 3 July - 06 August 2011
- VI. Effect of Flux Pinning Properties Of SiC- doped MgB₂ Superconductors**
Bayazit T., Taylan Koparan E., Başoğlu M., Hacısalihoğlu M. Y., Yanmaz E.
International Student Workshop on Condensed Matter and Material Physics, Antalya, Turkey, 27 - 31 December 2009, pp.47
- VII. Superconducting Properties of Pure and SiC doped Bulk MgB₂ Superconductors**
BAYAZIT T., BAŞOĞLU M., TAYLAN KOPARAN E., HACISALİHOĞLU M. Y., YANMAZ E.
4. Ulusal Süperiletkenler Sempozyumu, Trabzon, Turkey, 10 August 2009

Supported Projects

KURT A., BAYAZIT T., AKÇAY G., MENTEŞ A. R., TÜZÜNER T., BEKTAŞ I., Project Supported by Higher Education Institutions, Doğu Karadeniz Bölgesi' nde yetiştirilen farklı çay çeşitlerinde flor içeriğinin incelenmesi, 2023 - Continues

TOMAKIN M., BAYAZIT T., Project Supported by Higher Education Institutions, Cu₂Sn(S,Se)₃ İnce Filmlerinin Üretilmesi ve Aygıt Özelliklerinin İncelenmesi, 2018 - 2021

TOMAKIN M., GÜNER S. B., BAYAZIT T., Project Supported by Higher Education Institutions, p-Tipi ZnO İnce Film Örneklerinin Ultrasonik Kimyasal Püskürtme Yöntemi ile Hazırlanması ve Kararlılığının İncelenmesi, 2018 - 2021

AKÇAY H. T., ŞİRİN M., TOKÇALAR S., DEMİR A., BAYAZIT T., Project Supported by Higher Education Institutions, Çeşitli Organik ve İnorganik Bileşiklerin, Doğal Ürünlerin Spektroskopik İncelenmesi, 2014 - 2017

Metrics

Publication: 15
Citation (WoS): 22
Citation (Scopus): 24
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

E. Taylan Koparan, A. Ozturk, T. Bayazit, A. Surdu, A. Sidorenko, E. Yanmaz, "Investigation of the Upper Critical Magnetic Field and Activation Energy in MgB₂ Thin Film" III. International Conference on Superconductivity and Magnetism (ICSM2012) , Kumburgaz, İstanbul, TURKEY - 4 Mayıs 2012, Attendee, İstanbul, Turkey, 2012

E. Taylan Koparan, T. Bayazit, M. Başoğlu, A. Surdu, A.Sidorenko and E.Yanmaz, "Fabrication and Characterization of Superconducting MgB₂ Thin Film" 5th National Superconductivity Symposium , İzmir - 6 Tem. 2011, Attendee, İzmir, Turkey, 2011

T. Dilek, E. Yanmaz, "The Magnetic and Structural Properties of SiC-Doped MgB₂ Bulks Prepared by the Standard Ceramic Processing", International Conference on Superconductivity and Magnetism , Antalya, TURKEY - 30 Nisan 2010, Attendee, Antalya, Turkey, 2010

T. Dilek, E. Taylan Koparan, E. Yanmaz, "Effect of Flux Pinning Properties Of SiC- doped MgB₂ Supreconductors" ISW on Condensed Matter and Material Physics , Antalya-TURKEY - 31 Ara. 2009, Attendee, Antalya, Turkey, 2009

T. Dilek, M. Başoğlu, E. Taylan Koparan, M.Y. Hacısalıhoğlu, E. Yanmaz, "Superconducting Properties of Pure and SiC-doped Bulk MgB₂ Superconductors" 4. Ulusal Süperiletkenler Sempozyumu , Trabzon - 13 Ağu. 2009, Working Group, Trabzon, Turkey, 2009

Scholarships

2211-c yurtiçi öncelikli alanlar doktora burs programı, TÜBİTAK, 2019 - 2021

Awards

Bayazit T., Tübitak 2211-C Yurtiçi Öncelikli Alanlar Doktora Bursu, Tübitak, July 2021