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Education Information

Doctorate, Anadolu University, Institute Of Science, Fizik, Turkey 2005 - 2011

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2003 - 2005

Undergraduate, Inonu University, Fen Edebiyat Fakültesi, Fizik, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Research Areas

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

Academic Titles / Tasks

Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2023 - Continues

Associate Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2022 - 2023

Associate Professor, Inonu University, Rektörlük, Fizik, 2017 - 2022

Research Assistant, Anadolu University, Faculty Of Science, Fizik, 2005 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Production of V-Doped P2-type Na_{0.67}Mn_{0.5}Fe_{0.43}Al_{0.07}O₂ Cathodes and Investigation of Na-Ion Full Cells Performance**
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- IV. **Investigation of electrochemical performance of Na-ion batteries by hard carbon anodes produced by biomass of Prunus armeniaca seeds**
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- VIII. **Production of Eu-doped LiFePO₄ by glass-ceramic technique and investigation of their thermal, structural, electrochemical performances**
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- IX. **Boron-doped porous carbon material derived from ZIF-11: Investigation of cotton fabric supercapacitor and Li-ion battery performances**
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- XIII. **Magnetic Properties and Environmental Temperature Effects on Battery Performance of Na_{0.67}Mn_{0.5}Fe_{0.5}O₂**
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- XIV. **Investigation of Ti-substitution effects on structural and electrochemical properties of Na_{0.67}Mn_{0.5}Fe_{0.5}O₂ battery cells**
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- XV. **LiNi_{0.8}Co_{0.15}Ti_{0.05}O₂: synthesis by solid state reaction and investigation of structural and electrochemical properties with enhanced battery performance**
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- XVIII. **Fabrication of Cr doped Na_{0.67}Fe_{0.5}Mn_{0.5}O₂ compounds and investigation of their structural, electrical, magnetic and electrochemical properties**
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- XIX. **Improving of the battery performance of Dy-substituted LiCoO₂ and investigating the mechanism of the cells**
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- XX. **Investigations of the capacity fading mechanism of Na(0.44)MnO(2) via ex situ XAS and magnetization measurements**
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- XXI. **Structural, magnetic, electrical, and electrochemical properties of Sr-Co-Ru-O: A hybrid-capacitor application**
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- XXII. **Fabrication of Ca-Mn-Nb-O compounds and their structural, electrical, magnetic and thermoelectric properties**
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- XXIII. **Structural, magnetic, electrical and electrochemical properties of SrCo_{0.25}, Sr₉Co₂Mn₅O₂₁ and SrMnO₃ compounds**
Demirel S., Oz E., Altin S., Bayri A., Baglayan O., Altin E., Avci S.
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- XXIV. **Thermally Induced Spin State Transition in LiCoO₂ and Its Effects on Battery Performance**
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- XXV. **Electrochemical effects and magnetic properties of B substituted LiCoO₂: Improving Li-battery performance**
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- XXVI. **Enhancement of battery performance of LiMn₂O₄: correlations between electrochemical and magnetic properties**
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- XXVII. **Growth mechanism and magnetic and electrochemical properties of Na_{0.44}MnO₂ nanorods as cathode material for Na-ion batteries**
DEMIREL S., OZ E., ALTIN E., ALTIN S., BAYRI A., Kaya P., Turan S., Avci S.
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- XXVIII. **Magnetic and thermoelectric properties of B-substituted NaCoO₂**
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DEMİREL S., ALTIN E., OZ E., ALTIN S., BAYRİ A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.627, pp.430-437, 2015 (SCI-Expanded)
- XXX. **Thermoelectric and mechanical properties of Mg-Al-Sb alloys**
ALTIN E., OZ E., ERDEM M., DEMİREL S., Aydogdu Y., ALTIN S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.2, pp.1023-1032, 2015 (SCI-Expanded)
- XXXI. **Thermal and mechanical properties of La-Al-Sb alloys**
ALTIN E., OZ E., DEMİREL S., ERDEM M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.12, pp.5331-5337, 2014 (SCI-Expanded)
- XXXII. **Enhanced thermoelectric properties induced by chemical pressure in Ca₃Co₄O₉**
DEMİREL S., Avci S., ALTIN E., ALTIN S., YAKINCI M. C.
CERAMICS INTERNATIONAL, vol.40, no.4, pp.5217-5222, 2014 (SCI-Expanded)
- XXXIII. **Vortex pinning and magnetic peak effect in Eu(Eu,Ba)(_{2.125})Cu₃O_x**
ALTIN E., GOKHFELD D. M., DEMİREL S., OZ E., KURT F., ALTIN S., YAKINCI M. C.
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- XXXIV. **MgB₂ thin film fabrication with excess Mg by sequential e-beam evaporation and transport properties under magnetic fields**
ALTIN E., KURT F., ALTIN S., YAKINCI M. C., YAKINCI Z. D.
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- XXXV. **J(c) enhancement and flux pinning of Se substituted YBCO compound**
YAKINCI Z. D., GOKHFELD D. M., ALTIN E., KURT F., ALTIN S., DEMİREL S., AKSAN M. A., YAKINCI M. C.
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- XXXVI. **Physical, electrical, transport and magnetic properties of Nd(Ba,Nd)(_{2.1})Cu₃O₇-delta system**
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- XXXVII. **3D like vortex behavior and the thermally activated flux flow mechanism in (Hg_{0.8}Re_{0.2})Ba₂Ca₂Cu₃O_x superconducting films**
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- XXXVIII. **Dark current and optical properties in asymmetric GaAs/AlGaAs staircase-like multiquantum well structure**
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- XXXIX. **Hysteresis loops of MgB₂ + Co composite tapes**
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- XL. **Barrier lowering effect and dark current characteristics in asymmetric GaAs/AlGaAs multi quantum well structure**
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- XLI. **Power Law Dependence of I-V Characteristics of Bi-2212 Whiskers at Low Magnetic Fields**
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- XLII. **Effect of Bi₂O₃ Addition on the Single-Crystal BiSrCaCuO Whisker Growth**

- ALTIN S., AKSAN M. A., ALTIN E., BALCI Y., YAKINCI M. C.
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- XLIII. **The effect of Mo addition on the microstructure and J(c) properties of MgB₂ tapes fabricated by PIT method**
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- XLIV. **Magnetoresistance properties of Co-added MgB₂ tapes prepared by PIT method**
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Articles Published in Other Journals

- I. **Magnetic Properties of Eu³⁺ ions for different surroundings: An investigation of the spin-orbit coupling in the structures**
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- II. **KIZILÖTESİ SENSÖRLERİN SAĞLIK ALANINDAKİ UYGULAMALARI**
ALTIN E., DEMİREL S.
inönü Üniversitesi Sağlık Hizmetleri Meslek Yüksekokulu Dergisi, vol.5, no.8, pp.4-19, 2016 (Peer-Reviewed Journal)
- III. **Giant Dielectric Constant and Mechanical Heat Conducting and Structural Properties of Dental Composites by adding Ca ions**
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Journal of Dentistry and Orofacial Surgery, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **New Cu-Al Based Quaternary and Quinary High Temperature Shape Memory Alloy Composition Systems**
Karaduman O., Ozkul I., Altin S., Altin E., Baglayan O., Canbay C. A.
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- II. **In situ MgB₂ Thin Film Fabrication on Commercial Ni tapes by e beam Evaporation and their electrical performance**
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- III. **Effects of boron substitution on structure and morphology of NaMn₂O₄ nanorods**
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- XV. **Dip Coating Yöntemi İle Şerit MgB₂ Süperiletkenlerin Eldesi ve Karakterizasyonu**
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Supported Projects

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- ALTIN S., ALTIN E., Project Supported by Higher Education Institutions, İyon Değişimre Yöntemi İle NaFePO₄ üretimi ve elektrokimyasal özelliklerinin araştırılması, 2021 - 2022
- BAYRI A., BULUT F., ALTIN S., ALTIN E., ADIGÜZEL H. İ., Project Supported by Higher Education Institutions, Na-iyon piller için demir-krom içeren elektrot geliştirilmesi, 2018 - 2019
- ALTIN S., ÖNAL Y., DEMİREL S., BAYRI A., YAŞAR S., ALTIN E., BULUT F., Project Supported by Higher Education

Institutions, Şarjedilebilir mini/mikro-pil üretimi ve elektrokimyasal performanslarının belirlenmesi, 2017 - 2019
ALTIN E., Project Supported by Higher Education Institutions, YENİDEN DOLDURULABİLİR Na-PİLLERDE YENİ ANOT MALZEMELERİNİN ARAŞTIRILMASI, 2016 - 2017
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Patent

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Altın S., Demirel S., Bayrı A., Avcı S., Altın E., Öz E., Yüksek Kapasiteli ve Uzun ömürlü Li-yon Ve Na-yon Pil ve Bu Pillerde Kullanılan Katot Materyali Üretim Yöntemi, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2015 04382 B , Standard Registration, 2019

Scientific Refereeing

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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, November 2020
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Metrics

Publication: 67
Citation (WoS): 175
Citation (Scopus): 163
H-Index (WoS): 7
H-Index (Scopus): 7

Awards

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