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Personal Information

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Address: İnönü Üniversitesi Bilimsel ve Teknolojik Araştırma Merkezi

Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2013 - 2019

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2011 - 2013

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Fizik, Turkey 2006 - 2011

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties

Academic Titles / Tasks

Lecturer, Inonu University, Rektörlük, 2021 - Continues

Courses

Teknolojinin Temel İlkeleri, Associate Degree, 2022-2023

Lazerler ve Biyomedikal Uygulamaları, Undergraduate, 2021-2022

Lazerler ve Biyomedikal Uygulamaları, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Improving the Magnetocaloric Performance of NiMnSnB Heusler Alloys with V Substitutions**
KIRAT G.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.35, no.11, pp.3323-3331, 2022 (SCI-Expanded)
- II. **Investigation of structural, spectroscopic, dielectric, magnetic, and in vitro biocompatibility properties of Sr/Ni co-doped hydroxyapatites**
Ercan F., Kayed T. S., KAYÇILI Ö., BULUT N., Almohazey D., Ates T., Al-Ahmari F. S., AY İ., Demirci T., KIRAT G., et al.
CERAMICS INTERNATIONAL, vol.48, no.18, pp.26585-26607, 2022 (SCI-Expanded)
- III. **Investigation of martensitic transformation and magnetoresistance properties of cu-substituted Ni-Mn-Sn-B melt spun ribbons**
Kirat G., AKSAN M. A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.529, 2021 (SCI-Expanded)
- IV. **Magnetocaloric Properties of Ni-Rich Ni_{50-x}CoxMn₃₈Sn₁₂B₃ Shape Memory Ribbons**
Kirat G., Kizalaslan O., AKSAN M. A.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.34, no.2, pp.581-588, 2021 (SCI-Expanded)

- V. **Magnetoresistance properties of magnetic Ni-Mn-Sn-B shape memory ribbons and magnetic field sensor aspects operating at room temperature**

Kirat G., KIZILASLAN O., AKSAN M. A.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.477, pp.366-371, 2019 (SCI-Expanded)

- VI. **Thermal and structural characterization of the Bi₂-xSm_xSr₂Ca₂Cu₃O₁₀+ glass-ceramic system**

KIZILASLAN O., KIRAT G., AKSAN M. A.

INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, vol.8, no.3, pp.344-351, 2017 (SCI-Expanded)

- VII. **Preparation and characterization of CaO-Al₂O₃-SiO₂ (CAS) glass-ceramics**

ÖZABACI M., AKSAN M. A., KIRAT G., KIZILASLAN O., YAKINCI M. C.

JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.454, pp.8-12, 2016 (SCI-Expanded)

- VIII. **Effect of the Er-substitution on critical current density in glass-ceramic Bi₂Sr₂Ca₂(Cu₃-xEr_x)O₁₀+delta superconducting system**

KIRAT G., KIZILASLAN O., AKSAN M. A.

CERAMICS INTERNATIONAL, vol.42, no.13, pp.15072-15076, 2016 (SCI-Expanded)

- IX. **Enhancement of magnetic relaxation behavior by texturing in Bi-2212 superconducting rods**

ÖZABACI M., KIZILASLAN O., KIRAT G., AKSAN M. A., MADRE M. A., SOTELO A., YAKINCI M. C.

CERAMICS INTERNATIONAL, vol.42, no.7, pp.8325-8330, 2016 (SCI-Expanded)

- X. **Magnetic relaxation behavior in the Bi₂Sr₂Ca₂Cu₃-xMoxO₁₀+delta system fabricated by glass-ceramic technique**

KIZILASLAN O., KIRAT G., AKSAN M. A.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.384, pp.186-191, 2015 (SCI-Expanded)

- XI. **Effect of Co addition on the critical current density of MgB₂ superconductor**

KIRAT G., KIZILASLAN O., AKSAN M. A., YAKINCI M. C.

PHYSICA B-CONDENSED MATTER, vol.445, pp.24-27, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Exchange Bias Effect in NiMnSbB Ferromagnetic Shape Memory Alloys Depending on Mn Content**

KIRAT G.

Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.444-455, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Magnetically controlled structural transition in Ni₅₀Mn₂₆Ga₂₄B₂ alloys**

KIRAT G.

8th International conference on materials science and nanotechnology for next generation (MSNG2021), Elazığ, Turkey, 15 July 2021

- II. **Optimizing Hysteresis Width in Ni-Mn-Sb Shape Memory Alloys**

KIRAT G., AKSAN M. A.

4th International Conference on Physical Chemistry and Functional Materials (PCFM'21), Elazığ, Turkey, 08 April 2021

- III. **Reentrant Magnetic Behavior in Ni-Mn-Ga Ferromagnetic Shape Memory Alloys**

KIRAT G.

4th International Conference on Physical Chemistry and Functional Materials (PCFM'21), 08 April 2021

- IV. **Magnetic-Field-Induced Shape Recovery in Ni-Cu-Mn-Sn-B Ribbons**

KIRAT G., KIZILASLAN O., AYDOĞDU Y., AKSAN M. A.

6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya, Turkey, 29 April - 04 May 2018

- V. **Magnetoresistance behavior of the Fe-doped ferromagnetic shape memory (FSM) ribbons**
KIRAT G., KIZILASLAN O., AKSAN M. A.
International Conference on Superconductivity and Magnetism-ICSM2018, Antalya, Turkey, 08 April 2021
- VI. **Investigation of magnetoresistivity properties of coronene added bulk MgB₂**
ERDEM Ö., KIRAT G.
International Conference on Superconductivity and Magnetism-ICSM2018, Antalya, Turkey, 01 April 2018
- VII. **Magnetic Properties of Fe-Doped Ni-Mn-Sn-B Ferromagnetic Shape Memory Ribbons**
KIRAT G., AKSAN M. A., KIZILASLAN O.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS SCIENCE (ICCMMS-2017), 11 October 2017 - 15 January 2018, pp.55
- VIII. **Effect of the Er-Substitution on Critical Current Density in Glass-Ceramic Bi₂Sr₂Ca₂(Cu_{3-x}Er_x)O_{10+δ} Superconducting System**
KIRAT G., KIZILASLAN O., AKSAN M. A.
5th International Conference on Superconductivity and Magnetism, Muğla, Turkey, 24 - 30 April 2016, pp.533
- IX. **Phase purity as a factor controlling the magnetic properties of CaO-Al₂O₃-SiO₂ (CAS) based glass-ceramics**
ÖZABACI M., KIRAT G., KIZILASLAN O., AKSAN M. A., YAKINCI M. E.
International Conference on Superconductivity and Magnetism-ICSM2016, FETHİYE, Turkey, 01 April 2016
- X. **Effect of the Er-substitution on critical current density in glassceramic Bi₂Sr₂Ca₂(Cu_{3-x}Er_x)O_{10+δ} Superconducting System**
KIRAT G., KIZILASLAN O., AKSAN M. A.
International Conference on Superconductivity and Magnetism-ICSM2016, FETHİYE, Turkey, 01 April 2016
- XI. **Effects of boron addition on the physical properties of CuAlMn shape memory alloys**
AYDOĞDU Y., KIRAT G., KÖK M., TURABİ A., AYDOĞDU A., AKSAN M. A., KARACA H.
MSM15, Antalya, Turkey, 01 April 2015

Supported Projects

ERDOĞAN A., KIRAT G., MUMCU A., ÖZABACI M., Project Supported by Higher Education Institutions, PEG İle Modifiye MNP'lere Yüklendi DOX'un Tayin Edilmesi İçin Co Bazlı Dev Manyetoempedans Tabanlı Biyosensörlerin Üretimi, 2022 - 2023

Kirat G., Kızılslan O., Project Supported by Higher Education Institutions, RF Püskürtme Tekniğı ile Hidroksiapatit Ve Florapatit Kaplanmış Ortodontik Şekil Hatırlamalı Ni- Ti Tellerin Hazırlanması, 2018 - 2022

Kirat G., Aydoğdu Y., TUBITAK Project, Bor Katkılı Polikristal Metamanyetik Şekil Hafızalı Alaşımların Üretimi, Karakterizasyonu Ve Teknolojik Uygulamaları, 2014 - 2017

Kirat G., Aksan M. A., Project Supported by Higher Education Institutions, Fe ve Ni Katkılmasının Cam-Seramik Mg₂Al₄Si₅O₁₈ Sistemine Etkileri, 2013 - 2015

Metrics

Publication: 24
Citation (WoS): 42
Citation (Scopus): 31
H-Index (WoS): 4
H-Index (Scopus): 3