

Assoc. Prof. OLCAY KIZILASLAN

Personal Information

Email: olcay.kizilaslan@inonu.edu.tr

Web: <https://avesis.inonu.edu.tr/olcay.kizilaslan>

Education Information

Post Doctorate, Eberhard Kals Universitaet Tübingen, Applied Physics, Ctr Quantum Sci Lısa,, Germany 2018 - 2018

Post Doctorate, Eberhard Kals Universitaet Tübingen, Applied Physics , Ctr Quantum Sci Lısa, Germany 2016 - 2017

Doctorate, Inonu University, Fen Bilimleri, Turkey 2010 - 2015

Doctorate, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Physical Enstitute, Physics, Germany 2013 - 2013

Postgraduate, Inonu University, Fen Bilimleri, Turkey 2008 - 2010

Dissertations

Doctorate, BİYOMEDİKAL UYGULAMALARA YÖNELİK Bİ-BAZLI DOĞAL JOSEPHSON EKLEMLERİN ÜRETİMİ VE KARAKTERİZASYONU, Inonu University, Fen Bilimleri Enstitüsü, Fizik, 2015

Postgraduate, Tek Kristal HTc BSCCO Süperiletken Whisker? ların Mekaniksel Özellikleri, Inonu University, Fen Bilimleri Enstitüsü, Fizi, 2010

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Superconductivity, Natural Sciences

Academic Titles / Tasks

Associate Professor, Inonu University, Mühendislik Fakültesi, Biyomedikal Müh., 2020 - Continues

Assistant Professor, Inonu University, Mühendislik Fakültesi, Biyomedikal, 2015 - 2020

Researcher, Eberhard Kals Universitaet Tübingen, Eberhard Kals Universitaet Tübingen/Ctr Quantum Sci LISA, Physics, 2018 - 2018

Assistant Professor, Inonu University, Mühendislik Fakültesi, Biyomedikal, 2015 - 2018

Other, Eberhard Kals Universitaet Tübingen, Eberhard Kals Universitaet Tübingen/Ctr Quantum Sci LISA, Physics, 2016 - 2017

Research Assistant, Inonu University, Fen Fakültesi, Fizik, 2011 - 2015

Other, Universitaet Erlangen Nürnberg, Applied Physics institute, 2013 - 2013

Courses

209-Linear Cebir, Undergraduate, 2017 - 2018

103- Genel Fizik, Undergraduate, 2017 - 2018

104-Genel Fizik, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermal hysteresis dependent magnetocaloric effect properties of Ni_{50-x}Cu_xMn₃₈Sn₁₂B₃ shape memory ribbons**
KIZILASLAN O.
INTERMETALLICS, vol.109, pp.135-138, 2019 (Peer-Reviewed Journal)
- II. **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 (Peer-Reviewed Journal)
- III. **Resonant Cavity Modes in Bi₂Sr₂CaCu₂O_{8+x} Intrinsic Josephson Junction Stacks**
Zhang H., Wieland R., Chen W., Kizilaslan O., Ishida S., Han C., Tian W., Xu Z., Qi Z., Qing T., et al.
PHYSICAL REVIEW APPLIED, vol.11, no.4, 2019 (Peer-Reviewed Journal)
- IV. **Self-Mixing Spectra of Terahertz Emitters Based on Bi₂Sr₂CaCu₂O_{8+delta} Intrinsic Josephson-Junction Stacks**
Huang Y., Sun H., An D., Zhou X., Ji M., Rudau F., Wieland R., Hampp J. S., Kizilaslan O., Yuan J., et al.
PHYSICAL REVIEW APPLIED, vol.8, no.5, 2017 (Peer-Reviewed Journal)
- V. **Terahertz Spectroscopy of Dilute Gases Using Bi₂Sr₂CaCu₂O_{8+delta} Intrinsic Josephson-Junction Stacks**
SUN H., YANG Z., KINEV N. V., KISELEV O. S., LV Y., HUANG Y., HAO L., ZHOU X., JI M., TU X., et al.
PHYSICAL REVIEW APPLIED, vol.8, no.5, 2017 (Peer-Reviewed Journal)
- VI. **Thermal and structural characterization of the Bi_{2-x}Sm_xSr₂Ca₂Cu₃O_{10+delta} glass-ceramic system**
KIZILASLAN O., KIRAT G., AKSAN M. A.
INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, vol.8, no.3, pp.344-351, 2017 (Peer-Reviewed Journal)
- VII. **Tuning THz emission properties of Bi₂Sr₂CaCu₂O_{8+delta} intrinsic Josephson junction stacks by charge carrier injection**
Kizilaslan O., RUDAU F., WIELAND R., HAMPP J. S., ZHOU X. J., JI M., KISELEV O., KINEV N., HUANG Y., HAO L. Y., et al.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.30, no.3, 2017 (Peer-Reviewed Journal)
- VIII. **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 (Peer-Reviewed Journal)
- IX. **Effect of the Er-substitution on critical current density in glass-ceramic Bi₂Sr₂Ca₂(Cu_{3-x}Er_x)O_{10+delta} superconducting system**
KIRAT G., KIZILASLAN O., AKSAN M. A.
CERAMICS INTERNATIONAL, vol.42, no.13, pp.15072-15076, 2016 (Peer-Reviewed Journal)
- X. **Interlayer tunneling spectroscopy of mixed-phase BSCCO superconducting whiskers**
KIZILASLAN O., TRUCCATO M., SIMSEK Y., AKSAN M. A., KOVAL Y., MUELLER P.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.29, no.6, 2016 (Peer-Reviewed Journal)
- XI. **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 (Peer-Reviewed Journal)
- XII. **Enhancement of the critical current of intrinsic Josephson junctions by carrier injection**
KIZILASLAN O., SIMSEK Y., AKSAN M. A., KOVAL Y., MUELLER P.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.28, no.8, 2015 (Peer-Reviewed Journal)
- XIII. **Magnetic relaxation behavior in the Bi₂Sr₂Ca₂Cu_{3-x}MoxO_{10+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 (Peer-Reviewed Journal)

- XIV. **Grain alignment and its relationship with superconductivity and thermal transport of Ni-substituted Bi-2212 textured rods fabricated at two different growth rates**
ÖZABACI M., KIZILASLAN O., MADRE M. A. , YAKINCI M. C. , SOTELO A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.5, pp.3090-3099, 2015 (Peer-Reviewed Journal)
- XV. **Adjustable tunneling barrier in bi-based high-T_c cross-whisker junctions**
KIZILASLAN O., SIMSEK Y., AKSAN M. A. , KOVAL Y., YAKINCI M. C. , MUELLER P.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.28, no.2, 2015 (Peer-Reviewed Journal)
- XVI. **Growth Speed and Substitution Effects on Alignment and Thermal Transport Properties of Bi-2212 Textured Superconductors**
ÖZABACI M., RASEKH S., KIZILASLAN O., MADRE M. A. , SOTELO A., YAKINCI M. C.
JOM, vol.67, no.1, pp.222-232, 2015 (Peer-Reviewed Journal)
- XVII. **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 (Peer-Reviewed Journal)
- XVIII. **Crystallization of glass-ceramic Bi(3)Sr(2)Ca(2)Cu(3)O_y superconducting system**
KIZILASLAN O., AKSAN M. A.
JOURNAL OF CRYSTAL GROWTH, vol.381, pp.77-82, 2013 (Peer-Reviewed Journal)
- XIX. **Nanoindentation Properties of HT_c Superconducting Single-Crystalline Whiskers**
KIZILASLAN O., Yilmaz F., AKSAN M. A. , YAKINCI M. C.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.4, pp.907-911, 2013 (Peer-Reviewed Journal)
- XX. **Thermoelectric power and thermal conductivity study of the Y₃Ba₅Cu_{80x} system**
AKSAN M. A. , KIZILASLAN O., AKSAN E. N. , YAKINCI M. C.
PHYSICA B-CONDENSED MATTER, vol.407, no.14, pp.2820-2824, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **Magnetic field induced shape recovery in Ni-Mn-Sn-B ribbons**
KIRAT G., KIZILASLAN O., AYDOĞDU Y., AKSAN M. A.
International Conference on Superconductivity and Magnetism-ICSM2018, Antalya, Turkey, 08 April 2021
- IV. **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 (ICMMS-2017), 11 October 2017 - 15 January 2018, pp.55
- V. **Emission of terahertz radiation from intrinsic Josephson junctions in Bi₂Sr₂CaCu₂O₈ stacks**
Hampp J. S. , KIZILASLAN O., Wieland R., Rudau F., Zhou X., Ji M., Huang Y., Hao L., Kinev N. V. , Kiselev O. S. , et al.
Verhandlungen der Deutschen Physikalischen Gesellschaft - DPG, 19 - 24 March 2017
- VI. **ways to tune the maximum power of Bi₂Sr₂CaCu₂O₈ intrinsic Josephson junction stacks**
rudau f., wieland r., KIZILASLAN O., hampp j., zhou x., ji m., kinev n., huang y., yuan j., hao l., et al.
The 10th International Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High-T_c Superconductors, 9 - 12 October 2016

- VII. **THz emission from Bi 2212 single crystal whiskers**
KIZILASLAN O., Rudau F., Wieland r., Hampp j., zhou x., Ji M., kinev n., huang y., yuan j., An D., et al.
The 10th International Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High-Tc Superconductors (Plasma+ 2016), 9 - 12 October 2016
- VIII. **Bi2Sr2CaCu2O8 intrinsic Josephson junction stacks Coherent THz emission and electrothermal properties**
rudau f., wieland r., KIZILASLAN O., hampp j., zhou x., ji m., kinev n., huang y., yuan j., an d., et al.
10th International Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High-Tc Superconductors, 9 - 12 October 2016
- IX. **Single Crystal Bi2Sr2CaCu2O8 THz emitters and YBa2Cu3O7 junction detectors**
Wieland R., Rudau F., KIZILASLAN O., Hampp J., Kinev N., Juan J., huang y., ji m., zhou x., ishii a., et al.
international conference on nano confined superconductors and their application, 3 - 07 September 2016
- X. **Temperature dependence of the interlayer transport mechanism of Bi 2212**
KIZILASLAN O., ŞİMŞEK y., AKSAN M. A. , KOVAL y., MULLER p.
5th international conference on superconductivity and magnetism 2016, 24 - 30 April 2016
- XI. **effect of the Er substitution on critical current density in glass ceramic Bi2Sr2Ca2 Cu3-xEr_xO10-delta**
kirat g., KIZILASLAN O., AKSAN E. N.
international conference on superconductivity and magnetism 2016, 24 - 30 April 2016
- XII. **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.
5th International Conference on Superconductivity and Magnetism, Muğla, Turkey, 24 - 30 April 2016, pp.533
- XIII. **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
- XIV. **Effect of the Er-substitution on critical current density in glassceramic Bi2Sr2Ca2(Cu3-xEr_x)O10-delta Superconducting System**
KIRAT G., KIZILASLAN O., AKSAN M. A.
International Conference on Superconductivity and Magnetism-ICSM2016, FETHİYE, Turkey, 01 April 2016
- XV. **Interlayer Tunneling Spectroscopy of Mixed Phase BSCCO Superconducting Whisker**
KIZILASLAN O., Yılmaz S., AKSAN M. A. , Marco T., Yuri K., Paul M.
The 8th Asian Conference on Applied Superconductivity and Cryogenics, 22 - 25 November 2015
- XVI. **Role of the Fe and Ni substitution in magnetic behavior of the glass ceramic cordierite system**
GÖKHAN K., MURAT Ö., KIZILASLAN O., AKSAN M. A. , YAKINCI M. E.
9th international conference on magnetic and superconducting material, 30 April - 03 May 2015
- XVII. **enhancement of the critical current of intrinsic josephson junctions by carrier injection**
KIZILASLAN O., Yılmaz S., AKSAN M. A. , Koval Y., YAKINCI M. E. , Müller P.
9th international conference on magnetic and superconducting material, 30 April - 03 May 2015
- XVIII. **Magnetic Relaxation Studies on Bi 2212 Textured superconductor**
Murat Ö., KIZILASLAN O., Gökhan K., AKSAN M. A. , Andre S., YAKINCI M. E.
9th international conference on magnetic and superconducting material, 30 April - 03 May 2015

Supported Projects

ŞİMŞEK M., YAKINCI M. E. , ERDOĞAN A., KIZILASLAN O., ÖZGÜVEN Ö., BİLGİLİ H., DOĞAN B., Project Supported by Higher Education Institutions, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİ LABORATUVARLARI ALTYAPI TAMAMLAMA PROJESİ, 2015 - 2018

Metrics

Publication: 38

Citation (WoS): 95

Citation (Scopus): 78

H-Index (WoS): 5

H-Index (Scopus): 6