

## **Assoc. Prof. OLCAY KIZILASLAN**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: HLH-6089-2023

ScopusID: 55195941300

Yoksis Researcher ID: 120759

### **Education Information**

Post Doctorate, Eberhard Kals Universitaet Tübingen, Institute of Physics , Germany 2021 - 2022

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

Post Doctorate, Eberhard Kals Universitaet Tübingen, Applied Physics , Ctr Quantum Sci Lisa, 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

Undergraduate, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, Turkey 2004 - 2008

### **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

## Academic and Administrative Experience

Deputy Head of Department, Inonu University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2021 - Continues  
Head of Department, Inonu University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues  
Manager of Research and Application Center, Inonu University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - 2021

## Courses

202-Elektro Manyetik Teori, Undergraduate, 2018-2019  
209-Lineer Cebir, Undergraduate, 2017 - 2018  
101-Genel Fizik, Undergraduate, 2018-2019  
209-Lineer Cebir, Undergraduate, 2018-2019  
102- Genel Fizik, Undergraduate, 2018-2019  
103- Genel Fizik, Undergraduate, 2017 - 2018  
104-Genel Fizik, Undergraduate, 2017 - 2018  
202-Elektro Manyetik Teori, Undergraduate, 2017 - 2018  
101- Genel Fizik, Undergraduate, 2017-2018  
202-Elektro Manyetik Teori, Undergraduate, 2017-2018  
209-Lineer Cebir, Undergraduate, 2017-2018  
102-Genel Fizik, Undergraduate, 2017-2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Thermal hysteresis dependent magnetocaloric effect properties of Ni<sub>50-x</sub>Cu<sub>x</sub>Mn<sub>38</sub>Sn<sub>12</sub>B<sub>3</sub> shape memory ribbons  
KIZILASLAN O.  
INTERMETALLICS, vol.109, pp.135-138, 2019 (SCI-Expanded)
- 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 (SCI-Expanded)
- III. Resonant Cavity Modes in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub> 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 (SCI-Expanded)
- IV. Self-Mixing Spectra of Terahertz Emitters Based on Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+delta</sub> 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 (SCI-Expanded)
- V. Terahertz Spectroscopy of Dilute Gases Using Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+delta</sub> 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 (SCI-Expanded)
- VI. Thermal and structural characterization of the Bi<sub>2-x</sub>Sm<sub>x</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10+</sub> 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. Tuning THz emission properties of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+delta</sub> 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 (SCI-Expanded)
- VIII. Preparation and characterization of CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> (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)
- IX. Effect of the Er-substitution on critical current density in glass-ceramic Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>(Cu<sub>3-x</sub>Er<sub>x</sub>)O<sub>10+delta</sub> superconducting system  
 KIRAT G., KIZILASLAN O., AKSAN M. A.  
 CERAMICS INTERNATIONAL, vol.42, no.13, pp.15072-15076, 2016 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XIII. Magnetic relaxation behavior in the Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3-x</sub>Mo<sub>x</sub>O<sub>10+delta</sub> 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)
- 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 (SCI-Expanded)
- XV. Adjustable tunneling barrier in bi-based high-T<sub>c</sub> 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XVII. Effect of Co addition on the critical current density of MgB<sub>2</sub> superconductor  
 KIRAT G., KIZILASLAN O., AKSAN M. A., YAKINCI M. C.  
 PHYSICA B-CONDENSED MATTER, vol.445, pp.24-27, 2014 (SCI-Expanded)
- XVIII. Crystallization of glass-ceramic Bi(3)Sr(2)Ca(2)Cu(3)O<sub>y</sub> superconducting system  
 KIZILASLAN O., AKSAN M. A.  
 JOURNAL OF CRYSTAL GROWTH, vol.381, pp.77-82, 2013 (SCI-Expanded)
- XIX. Nanoindentation Properties of HTc 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 (SCI-Expanded)
- XX. Thermoelectric power and thermal conductivity study of the Y<sub>3</sub>Ba<sub>5</sub>Cu<sub>8</sub>O<sub>x</sub> system  
 AKSAN M. A., KIZILASLAN O., AKSAN E. N., YAKINCI M. C.  
 PHYSICA B-CONDENSED MATTER, vol.407, no.14, pp.2820-2824, 2012 (SCI-Expanded)

## Articles Published in Other Journals

### I. MAGNETOCALORIC EFFECT AROUND CURIE TEMPERATURE IN Ni<sub>50-x</sub> Cu<sub>x</sub>Mn<sub>38</sub>Sn<sub>12</sub>B<sub>3</sub> SHAPE MEMORY RIBBONS

KIZILASLAN O.

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.61, no.2, 2019 (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 (ICCMMS-2017), 11 October 2017 - 15 January 2018, pp.55

### V. Emission of terahertz radiation from intrinsic Josephson junctions in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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-Tc 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. Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> 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 Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> THz emitters and YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> 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., SIMSEK 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 Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub> Cu<sub>3</sub> xEr<sub>x</sub> O<sub>10</sub> d

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 Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>(Cu<sub>3</sub>-

- xEr<sub>x</sub>)010+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-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> (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 Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>(Cu<sub>3-x</sub>Er<sub>x</sub>)010+? 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 substitutionin magnetic behavior of the glass ceramic cordierite system**  
 GÖKHAN K., MURAT Ö., KIZILASLAN O., AKSAN M. A., YAKINCI M. E.  
 9th international confererence 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 2212Textured superconductor**  
 Murat Ö., KIZILASLAN O., Gökhan K., AKSAN M. A., Andre S., YAKINCI M. E.  
 9th international confererence on magnetic and superconducting material, 30 April - 03 May 2015

## Supported Projects

KIZILASLAN O., ZENGİN R., KIRAT G., ŞİMŞEK M., ÖZGÜVEN Ö., DOĞAN B., BİLGİLİ H., AKSAN M. A., ERDOĞAN A., Project Supported by Higher Education Institutions, RF PÜSKÜRTME TEKNİĞİ İLE HİDROKSİAPATİT VE FLORAPATİT KAPLANMIŞ ORTODONTİK ŞEKİL HAFIZALI NİTİ TELLERİN HAZIRLANMASI, 2018 - 2021  
 ERDOĞAN A., KIZILASLAN O., ABBASOV T., SARIMEŞELİ PAÇACI A., BİLGİLİ H., Project Supported by Higher Education Institutions, Doktorubisin Yüklü Manyetik Nanoparçacıkların Sentezlenmesi ve Karakterizasyonu, 2018 - 2021  
 KIZILASLAN O., KLEİNER R., Project Supported by Higher Education Institutions, Süperiletken THz cihazların işime gücünün artırılması ve frekans aralığının kontrol edilmesi, 2018 - 2019  
 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: 39  
 Citation (WoS): 175  
 Citation (Scopus): 175  
 H-Index (WoS): 8  
 H-Index (Scopus): 8

## Non Academic Experience

The Eberhard Karls Universität Tübingen

The Eberhard Karls Universität Tübingen

Erlangen Universitesi