

## Doç.Dr. OLCAY KIZILASLAN

### Kişisel Bilgiler

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### Eğitim Bilgileri

Post Doktora, Eberhard Kals Universitaet Tübingen, Applied Physics, Ctr Quantum Sci Lısa,, Almanya 2018 - 2018

Post Doktora, Eberhard Kals Universitaet Tübingen, Applied Physics , Ctr Quantum Sci Lısa, Almanya 2016 - 2017

Doktora, İnönü Üniversitesi, Fen Bilimleri, Türkiye 2010 - 2015

Doktora, Friedrich-Alexander-Universitaet Erlangen-Nürnberg, Physical Enstitute, Physics, Almanya 2013 - 2013

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri, Türkiye 2008 - 2010

### Yaptığı Tezler

Doktora, BİYOMEDİKAL UYGULAMALARA YÖNELİK Bİ-BAZLI DOĞAL JOSEPHSON EKLEMLERİN ÜRETİMİ VE KARAKTERİZASYONU, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2015

Yüksek Lisans, Tek Kristal HTc BSCCO Süperiletken Whisker? ların Mekaniksel Özellikleri, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Fizi, 2010

### Araştırma Alanları

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Manyetik özellikler ve malzemeler, Süperiletkenlik, Temel Bilimler

### Akademik Unvanlar / Görevler

Doç.Dr., İnönü Üniversitesi, Mühendislik Fakültesi, Biyomedikal Müh., 2020 - Devam Ediyor

Dr.Öğr.Üyesi, İnönü Üniversitesi, Mühendislik Fakültesi, Biyomedikal, 2015 - 2020

Yrd.Doç.Dr., İnönü Üniversitesi, Mühendislik Fakültesi, Biyomedikal, 2015 - 2018

Diğer, Eberhard Kals Universitaet Tübingen, Science, Applied Physics, 2016 - 2017

Araştırma Görevlisi, İnönü Üniversitesi, Fen Fakültesi, Fizik, 2011 - 2015

Diğer, Universitaet Erlangen Nürnberg, Science, Applied Physics, 2013 - 2013

### Verdiği Dersler

209-Linear Cebir, Lisans, 2017 - 2018

103- Genel Fizik, Lisans, 2017 - 2018

104-Genel Fizik, Lisans, 2017 - 2018

202-Elektro Manyetik Teori, Lisans, 2017 - 2018

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.109, ss.135-138, 2019 (SCI İndekslerine Giren Dergi)
- 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, cilt.477, ss.366-371, 2019 (SCI İndekslerine Giren Dergi)
- 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, cilt.11, 2019 (SCI İndekslerine Giren Dergi)
- 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., Hampf J. S., Kizilaslan O., Yuan J., et al.  
PHYSICAL REVIEW APPLIED, cilt.8, 2017 (SCI İndekslerine Giren Dergi)
- 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, cilt.8, 2017 (SCI İndekslerine Giren Dergi)
- 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+delta</sub> glass-ceramic system**  
KIZILASLAN O., KIRAT G., AKSAN M. A.  
INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, cilt.8, ss.344-351, 2017 (SCI İndekslerine Giren Dergi)
- 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, cilt.30, 2017 (SCI İndekslerine Giren Dergi)
- 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, cilt.454, ss.8-12, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.42, ss.15072-15076, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.29, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.42, ss.8325-8330, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.28, 2015 (SCI İndekslerine Giren Dergi)
- XIII. **Magnetic relaxation behavior in the Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3-x</sub>MoxO<sub>10+delta</sub> system fabricated by glass-ceramic technique**  
KIZILASLAN O., KIRAT G., AKSAN M. A.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.384, ss.186-191, 2015 (SCI İndekslerine Giren Dergi)
- 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, cilt.26, ss.3090-3099, 2015 (SCI İndekslerine

Giren Dergi)

- 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, cilt.28, 2015 (SCI İndekslerine Giren Dergi)
- 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, cilt.67, ss.222-232, 2015 (SCI İndekslerine Giren Dergi)
- 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, cilt.445, ss.24-27, 2014 (SCI İndekslerine Giren Dergi)
- 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, cilt.381, ss.77-82, 2013 (SCI İndekslerine Giren Dergi)
- XIX. **Nanoindentation Properties of HT<sub>c</sub> Superconducting Single-Crystalline Whiskers**  
KIZILASLAN O., Yilmaz F., AKSAN M. A. , YAKINCI M. C.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.26, ss.907-911, 2013 (SCI İndekslerine Giren Dergi)
- XX. **Thermoelectric power and thermal conductivity study of the Y<sub>3</sub>Ba<sub>5</sub>Cu<sub>80x</sub> system**  
AKSAN M. A. , KIZILASLAN O., AKSAN E. N. , YAKINCI M. C.  
PHYSICA B-CONDENSED MATTER, cilt.407, ss.2820-2824, 2012 (SCI İndekslerine Giren Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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, Türkiye, 29 Nisan - 04 Mayıs 2018
- II. **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 Ekim 2017 - 15 Ocak 2018, ss.55
- III. **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 Mart 2017
- IV. **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-T<sub>c</sub> Superconductors, 9 - 12 Ekim 2016
- V. **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-T<sub>c</sub> Superconductors, 9 - 12 Ekim 2016
- VI. **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-T<sub>c</sub> Superconductors (Plasma+ 2016), 9 - 12 Ekim 2016
- VII. **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 Eylül 2016
- VIII. **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 Nisan 2016
- IX. **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 Nisan 2016
- X. **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>+delta Superconducting System**  
KIRAT G., KIZILASLAN O., AKSAN M. A.  
5th International Conference on Superconductivity and Magnetism, Muğla, Türkiye, 24 - 30 Nisan 2016, ss.533
- XI. **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 Kasım 2015
- XII. **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 Nisan - 03 Mayıs 2015
- XIII. **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 Nisan - 03 Mayıs 2015
- XIV. **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 Nisan - 03 Mayıs 2015

## Desteklenen Projeler

ŞİMŞEK M., YAKINCI M. E. , ERDOĞAN A., KIZILASLAN O., ÖZGÜVEN Ö., BİLGİLİ H., DOĞAN B., Yükseköğretim Kurumları Destekli Proje, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİ LABORATUVARLARI ALTYAPI TAMAMLAMA PROJESİ, 2015 - 2018

## Atıflar

Toplam Atıf Sayısı (WOS):67

h-indeksi (WOS):5