

# Prof. UFUK KEMAL ÖZTÜRK

## Personal Information

Office Phone: [+90 462 377 2507](tel:+904623772507)

Office Phone: [+90 462 377 4154](tel:+904623774154)

Email: [kozturk@ktu.edu.tr](mailto:kozturk@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr//kozturk>

Address: KTÜ Fen Fakültesi Fizik Böl

## International Researcher IDs

ORCID: 0000-0002-8847-1880

Publons / Web Of Science ResearcherID: AAS-5438-2020

Yoksis Researcher ID: 151849

## Education Information

Doctorate, Karadeniz Technical University, -, Fizik, Turkey 2003 - 2006

Postgraduate, Karadeniz Technical University, -, Fizik, Turkey 2000 - 2003

Undergraduate, Marmara University, Ataturk Faculty Of Education, Fizik Öğretmenliği, Turkey 1995 - 1998

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Gadolinium ve İterbiyum Difüzyonunun YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Bileşiğinin Yapısal ve Süperiletkenlik Özelliklerine Etkisi, Karadeniz Technical University, -, Fizik, 2006

Postgraduate, Kimyasal Püskürtme Yöntemiyle ZnS İnce Filmlerinin Üretimi ve Karakteristik Özelliklerinin İncelenmesi, Karadeniz Technical University, -, Fizik, 2003

## Research Areas

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

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2016 - Continues

Associate Professor, The University of Warwick, Faculty Of Science, Engineering And Medicine, Warwick Manufacturing Group, 2015 - 2016

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2011 - 2016

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2007 - 2011

Assistant Professor, University of Cambridge, Faculty Of Physics & Chemistry, Materials Science And Metallurgy, 2010 -

## Academic and Administrative Experience

Erasmus Program Department Coordinator, Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - Continues  
Deputy Head of Department, Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - 2021  
chair of solid state physics, Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - 2019

## Courses

Physics II, Undergraduate, 2021 - 2022  
FBE 5001 BİLİMSEL ARAŞTIRMA VE PROJE HAZIRLAMA EĞİTİMİ, Doktora Alan Dersi, Doctorate, 2021 - 2022  
ELECTROMAGNETIC THEORY-I, Doctorate, 2021 - 2022  
Mesleki İngilizce, Fizik I, Fizik II, Teorik Mekanik, Elektromanyetik Teori-I, Undergraduate, 2020 - 2021  
Doktora alan dersi, Doctorate, 2014 - 2015  
Süperiletken many. ortamlar, HTS Hibrit MAGLEV, Süperiletken. Many. Kuv.Sabiti, Doctorate, 2013 - 2014  
Lisans:Fizik I, Fizik II, Teorik Mekanik, Elektr Devre Lab., Doctorate, 2012 - 2013  
Fizik I, Fizik II,Teknolojinin Bilimsel İlkeleri, Undergraduate, 2006 - 2007  
Fizik I, Fizik II, Genel Fizik, Undergraduate, 2003 - 2004, 2002 - 2003, 2001 - 2002

## Advising Theses

Öztürk U. K., Cansız A., Çok yüzeyli süperiletken ve halbach dizimli sürekli mıknatıslardan oluşan süperiletken manyetik kaldırma sisteminin donmuş görüntü modeli ile analizi, Postgraduate, A.FURKAN(Student), 2022  
Öztürk K., Tabakalı demir tabanlı ve benzer yapıları süperiletkenlere elementel katkıının nanoboyutta yapısal düzensizliklere etkisinin incelenmesi, Doctorate, M.YASİN(Student), 2017  
ÖZTÜRK K., Üç Çekirdekli YBCO Süperiletkeni Manyetik Kuvvet Parametrelerinin Maglev Sistemleri İçin Karşılaştırmalı Olarak İncelenmesi, Doctorate, M.Kabaer(Student), 2015  
ÖZTÜRK K., YBCO Süperiletkeni ile Manyetik Kılavuzlama Yolu Arasındaki Manyetik Kuvvet Özelliklerinin Hibrit Maglev Uygulamaları İçin İncelenmesi, Doctorate, M.Abdioğlu(Student), 2015  
ÖZTÜRK K., YBCO Bazlı Maglev Sistemleri Manyetik Kuvvet Sabitinin Farklı Alan Şartlarında İncelenmesi, Postgraduate, E.Şahin(Student), 2014  
ÖZTÜRK K., Numune Boyutu ve Uygulanan Manyetik Akı Dağılımının Nd-Fe-B ve Fe-B Katkılı Sm123 Süperiletkeninin Manyetik Kuvvet Özelliklerine Etkisi, Postgraduate, M.Abdioğlu(Student), 2011  
ÖZTÜRK K., Eritme Yöntemi ile Üretilen Külçe (Sm123)<sub>1-x</sub>(Yb211)<sub>x</sub> Süperiletkeninin, Manyetik Akı Çivileme ve Kaldırma Kuvveti Özelliklerinin İncelenmesi, Postgraduate, Ş.Akbulut(Student), 2010

## Jury Memberships

Doctorate, Doktora Tez Savunma Sınavı, Karadeniz Teknik Üniversitesi, September, 2015  
Doctorate, Doktora Tez Savunma Sınavı, Karadeniz Teknik Üniversitesi, July, 2015  
Doctorate, Doktora Tez Savunma Sınavı, Karadeniz Teknik Üniversitesi, June, 2014  
Doctorate, Doktora Tez Savunma Sınavı, Karadeniz Teknik Üniversitesi, November, 2012  
Post Graduate, Y Lisans sınavı , RTÜ Fen Fakültesi, January, 2012  
Post Graduate, Y. Lisans Tez Savunma Sınavı , Karadeniz Teknik Üniversitesi, June, 2011  
Post Graduate, Y Lisans sınavı , RTÜ Fen Fakültesi, January, 2011  
Post Graduate, Y Lisans Tez Savunma Sınavı , Karadeniz Teknik Üniversitesi, September, 2010

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

- I. **Modeling of levitation force by using Jc distribution approaches for bulk MgB<sub>2</sub> fabricated with different methods**  
UZUN O., ÖZTÜRK U. K.  
Physica C: Superconductivity and its Applications, vol.619, 2024 (SCI-Expanded)
- II. **Machine learning driven optimization and parameter selection of multi-surface HTS Maglev**  
ÖZKAT E. C., Abdioglu M., ÖZTÜRK U. K.  
Physica C: Superconductivity and its Applications, vol.616, 2024 (SCI-Expanded)
- III. **Enhancing magnetic levitation and guidance force and weight efficiency of high-temperature superconducting maglev systems by using sliced bulk YBCO**  
Abdioglu M., Öztürk U. K., Guner S. B., Öztürk M., Mollahasanoğlu H., Yanmaz E.  
International Journal of Applied Ceramic Technology, vol.20, no.6, pp.3766-3774, 2023 (SCI-Expanded)
- IV. **Bulk MgB<sub>2</sub> superconductor for levitation applications fabricated with boron processed by different routes**  
SAVAŞKAN B., ÖZTÜRK U. K., GÜNER S. B., Abdioglu M., Bahadır M., Acar S., Somer M., Ionescu A., Locovei C., Enculescu M., et al.  
Journal of Alloys and Compounds, vol.961, 2023 (SCI-Expanded)
- V. **Extended 2D Magnetic Field Modelling of Linear Motor to Investigate the Magnetic Force Parameters of High-Speed Superconducting Maglev**  
ÖZTÜRK U. K., Abdioglu M., Ozkat E. C., MOLLAHASANOĞLU H.  
IEEE Transactions on Applied Superconductivity, vol.33, no.4, 2023 (SCI-Expanded)
- VI. **Magnetic Force Performance of Hybrid Multi-Surface HTS Maglev System with Auxiliary Onboard PMs**  
ÖZTÜRK U. K., Abdioglu M., MOLLAHASANOĞLU H.  
IEEE Transactions on Applied Superconductivity, vol.33, no.3, 2023 (SCI-Expanded)
- VII. **Comparing of the Magnetic Force Parameters of Superconducting Maglev System Using Horizontal and Vertical PMG Geometry in Multi-Surface HTS-PMG Arrangement**  
ÖZTÜRK K., SAVAŞKAN B., Abdioglu M., Cansız A., DİLEK D. B., Karaahmet Z.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.34, no.12, pp.3151-3161, 2021 (SCI-Expanded)
- VIII. **Magnetic levitation force and trapped field properties of multiseeded YBCO with triangular arrangement of seeds**  
Abdioglu M., Güner S. B., Öztürk K., Yang C., Chen I., Çelik Ş.  
International Journal Of Applied Ceramic Technology, pp.1-8, 2021 (SCI-Expanded)
- IX. **Experimental and Numerical Investigation of Levitation Force Parameters of Novel MultiSurface Halbach HTSPMG Arrangement for Superconducting Maglev System**  
ÖZTÜRK K., Majos A. B., Abdioglu M., DİLEK D. B., GEDİKLİ H.  
IEEE Transactions on Applied Superconductivity, vol.31, 2021 (SCI-Expanded)
- X. **Design and Experimental studies on Superconducting Maglev Systems with MultiSurface HTSPMG Arrangements**  
Abdioglu M., ÖZTÜRK K., Ekici M., SAVAŞKAN B., Celik S., Cansız A.  
IEEE Transactions on Applied Superconductivity, vol.31, 2021 (SCI-Expanded)
- XI. **Frozen image analysis of a superconducting magnetic levitation system consisting of multi-surface superconductor and Halbach array permanent magnet configuration**  
Cansız A., Reisoglu A. F., ÖZTÜRK K., Abdioglu M.  
CRYOGENICS, vol.117, 2021 (SCI-Expanded)
- XII. **Magnetic force and stiffness performances of Maglev system based on multi-surface arrangements with three-seeded bulk YBaCuO superconductors**  
ÖZTÜRK K., ABDİOĞLU M., Karaahmet Z.  
Physica C: Superconductivity and its Applications, vol.578, 2020 (SCI-Expanded)
- XIII. **Determination of magnetic levitation force properties of bulk MgB<sub>2</sub> for different permanent**

**magnetic guideways in different cooling heights**

SAVAŞKAN B., Abdioglu M., ÖZTÜRK K.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.834, 2020 (SCI-Expanded)

- XIV. **The comparison of levitation and lateral force of bulk and cut-pasted bulk GdBCO samples at different temperatures**  
Guner S. B., ABDİOĞLU M., ÖZTÜRK K., ÇELİK Ş.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.822, 2020 (SCI-Expanded)
- XV. **Trapped magnetic field and levitation force properties of multi-seeded YBCO superconductors with different seed distance**  
SAVAŞKAN B., Güner S. B., Öztürk K., Yamamoto A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.829, pp.3-10, 2020 (SCI-Expanded)
- XVI. **Investigation of magnetic force properties between different PMGs and multi-seeded YBCO superconductors with different seed distances**  
Abdioglu M., ÖZTÜRK K., GUNER S. B., Celik S., KÜÇÜKÖMEROĞLU T.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.565, 2019 (SCI-Expanded)
- XVII. **An analysis on the relation between the seed distance and vertical levitation force for the multi-seeded YBCO using the modified advanced frozen image (MAFI) and experimental methods**  
Öztürk K., Güner S. B., Abdioglu M., Demirci M., Celik S., Cansız A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.805, pp.1208-1216, 2019 (SCI-Expanded)
- XVIII. **Investigation on superconducting and magnetic levitation force behaviour of excess Mg doped-bulk MgB<sub>2</sub> superconductors**  
Guner S. B., SAVAŞKAN B., ÖZTÜRK K., ÇELİK Ş., AKSOY C., KARABOĞA F., TAYLAN KOPARAN E., Yanmaz E.  
CRYOGENICS, vol.101, pp.131-136, 2019 (SCI-Expanded)
- XIX. **Enhanced Magnetic Levitation and Guidance Force in MgB<sub>2</sub> Bulks by Synthetic Engine Oil**  
SAVAŞKAN B., Taylan Koparan E., Güner S. B., Öztürk K., Çelik Ş.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, pp.827-837, 2019 (SCI-Expanded)
- XX. **Enhanced Magnetic Levitation and Guidance Force in MgB<sub>2</sub> Bulks by Synthetic Engine Oil Immersion**  
SAVAŞKAN B., TAYLAN KOPARAN E., Guner S. B., ÖZTÜRK K., ÇELİK Ş.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.4, pp.827-837, 2019 (SCI-Expanded)
- XXI. **Magnetic properties of the welded joined TSMG Y123+x wt% Y211 (x=20 and 30) bulk superconductors**  
Çakır B., Öztürk K., Guner S. B., Celik S., Aydinler A.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.557, pp.19-25, 2019 (SCI-Expanded)
- XXII. **Magnetic Properties of the Welded Joined TSMG Y123 + x wt% Y211 (x = 20 and 30) Bulk Superconductors**  
Çakır B., ÖZTÜRK K., Güner S. B., Çelik Ş., AYDINER A.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.557, pp.19-25, 2019 (SCI-Expanded)
- XXIII. **Levitation and guidance force relaxations of the single-seeded and multi-seeded YBCO superconductors**  
Abdioglu M., ÖZTÜRK K., Kabaer M., Ekici M.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.544, pp.27-32, 2018 (SCI-Expanded)
- XXIV. **The investigation on the regional nanoparticle Ag doping into MgTi<sub>0.06</sub>B<sub>2</sub> bulk for improvement the magnetic levitation force and the bulk critical current**  
ÖZTÜRK K., Dancer C. E. J., SAVAŞKAN B., AKSOY C., GUNER B., BADICA P., ALDICA G., Celik S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.724, pp.427-434, 2017 (SCI-Expanded)
- XXV. **Lateral Position Effect of Auxiliary Permanent Magnets on the Magnetic Force Properties of Cylindrical YBCO**  
Abdioglu M., Kabaer M., ÖZTÜRK K., Erdem O., Celik S.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.10, pp.2933-2938, 2017 (SCI-Expanded)
- XXVI. **Lateral Force Measurements for (Gd<sub>123</sub>)(1-x) : (Gd<sub>211</sub>) (x) Superconductors at Different Temperatures**

- Guner S. B., Celik S., Cansız A., ÖZTÜRK K.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.5, pp.1335-1343, 2017 (SCI-Expanded)
- XXVII. **Electromagnetic behaviour of bulk MgB<sub>2</sub> determined by numerical modelling using regional supercurrent properties**  
 ÖZTÜRK K., Dancer C. E. J.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.693, pp.1109-1115, 2017 (SCI-Expanded)
- XXVIII. **Optimization of levitation and guidance forces in a superconducting Maglev system**  
 Yildizer I., Cansız A., ÖZTÜRK K.  
 CRYOGENICS, vol.78, pp.57-65, 2016 (SCI-Expanded)
- XXIX. **Effect of Adding on the Critical Current Density and Lateral Levitation Force of Bulk**  
 SAVAŞKAN B., Koparan E. T., GUNER S. B., Celik S., ÖZTÜRK K., YANMAZ E.  
 JOURNAL OF LOW TEMPERATURE PHYSICS, vol.181, pp.38-48, 2015 (SCI-Expanded)
- XXX. **Effect of onboard PM position on the magnetic force and stiffness performance of multi-seeded YBCO**  
 ÖZTÜRK K., KABAER M., ABDİOĞLU M.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.644, pp.267-273, 2015 (SCI-Expanded)
- XXXI. **Comparative study of the magnetic stiffness, levitation and guidance force properties of single and multi seeded YBCOs for different HTS-PMG arrangements**  
 ÖZTÜRK K., ŞAHİN E., ABDİOĞLU M., KABAER M., Celik S., YANMAZ E., KÜÇÜKÖMEROĞLU T.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.643, pp.201-206, 2015 (SCI-Expanded)
- XXXII. **The Effect of Magnetic Field Distribution and Pole Array on the Vertical Levitation Force Properties of HTS Maglev Systems**  
 ÖZTÜRK K., Abdioglu M., Sahin E., Celik S., GEDİKLİ H., SAVAŞKAN B.  
 IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol.25, no.4, 2015 (SCI-Expanded)
- XXXIII. **Effect of C<sub>4</sub>H<sub>6</sub>O<sub>5</sub> Adding on the Critical Current Density and Lateral Levitation Force of Bulk MgB<sub>2</sub>**  
 Savaşkan B., Taylan Koparan E., Güner S. B., Çelik Ş., Öztürk K., Yanmaz E.  
 LOW TEMPERATURE PHYSICS, vol.181, pp.38-48, 2015 (SCI-Expanded)
- XXXIV. **Levitation and guidance force efficiencies of bulk YBCO for different permanent magnetic guideways**  
 Abdioglu M., ÖZTÜRK K., GEDİKLİ H., EKICI M., Cansız A.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.630, pp.260-265, 2015 (SCI-Expanded)
- XXXV. **Comparison of Levitation Forces of Bulk MgB<sub>2</sub> Superconductors Produced by Nano Boron and Carbon-Doped Nano Boron**  
 DUZ I., GUNER S. B., ERDEM O., DEMİR İ., KAPUCU V., CELIK S., ÖZTÜRK K., HOSSAIN S., Gencer A., YANMAZ E.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.27, no.10, pp.2241-2247, 2014 (SCI-Expanded)
- XXXVI. **Effects of Initial Cooling Conditions and Measurement Heights on the Levitation Performance of Bulk MgB Superconductor at Different Measurement Temperatures**  
 Erdem O., ÖZTÜRK K., GUNER S. B., CELIK S., YANMAZ E.  
 JOURNAL OF LOW TEMPERATURE PHYSICS, vol.177, pp.28-39, 2014 (SCI-Expanded)
- XXXVII. **Investigation on the levitation force behaviour of malic acid added bulk MgB<sub>2</sub> superconductors**  
 SAVAŞKAN B., Koparan E. T., CELIK S., ÖZTÜRK K., YANMAZ E.  
 PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.502, pp.63-69, 2014 (SCI-Expanded)
- XXXVIII. **Nanoindentation study on Gd-deposited YBaCuO superconductor**  
 Yılmaz F., Uzun O., Kolemen U., Kilicaslan M. F., Basman N., Ergen S., ÖZTÜRK K., YANMAZ E.  
 BULLETIN OF MATERIALS SCIENCE, vol.36, no.7, pp.1139-1145, 2013 (SCI-Expanded)
- XXXIX. **Analysis of indentation size effect (ISE) behavior in low-load Vickers microhardness testing of (Sm<sub>123</sub>)(1-x)(Nd<sub>123</sub>)(x) superconductor system**  
 CELIK S., Ozturk O., COSKUN E., SARIHAN M., Asikuzun E., ÖZTÜRK K., Terzioglu C.  
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.7, pp.2218-2227, 2013 (SCI-Expanded)
- XL. **Magnetization of Gd diffused YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconductor: Experiment and theory**  
 INANIR F., Yildiz S., ÖZTÜRK K., CELEBI S.

CHINESE PHYSICS B, vol.22, no.7, 2013 (SCI-Expanded)

- XLII. **A numerical study to investigate magnetization, current density and trapped field properties of doped-Sm123 bulk superconductor under different magnetic fields**  
ÖZTÜRK K., Patel A., Glowacki B. A.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.209, no.12, pp.2558-2564, 2012 (SCI-Expanded)
- XLIII. **Effect of Magnetic Flux Distribution and Magnetic Powder Addition on the Magnetic Levitation Force of Sm123 Superconductors**  
Abdioglu M., ÖZTÜRK K., Kutuk S., BOLAT S., Yanmaz E.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.25, no.4, pp.923-929, 2012 (SCI-Expanded)
- XLIV. **Comparative study of critical current density, pinning force and levitation force behavior in Yb211 doped-Sm123 bulk superconductors**  
ÖZTÜRK K., AKBULUT S., Kutuk S., BOLAT S., Celik S., Basoglu M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.516, pp.167-171, 2012 (SCI-Expanded)
- XLV. **Levitation Force Density on Different Thicknesses of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Bulk Superconductor Fabricated by FQMG Process**  
Kutuk S., BOLAT S., ÖZTÜRK K., Akbulut S., ÇAKIR O.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, pp.475-479, 2011 (SCI-Expanded)
- XLVI. **Microstructure Study at Different Thicknesses of Disc-Shaped YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Prepared by FQMG Method**  
Kutuk S., BOLAT S., ÖZTÜRK K., Akbulut S., Yanmaz E.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, pp.471-474, 2011 (SCI-Expanded)
- XLVII. **Levitation force at different temperatures and superconducting properties of nano-structured MgB<sub>2</sub> superconductors**  
YANMAZ E., ÖZTÜRK K., Dancer C. E. J., BASOGLU M., Celik S., Grovenor C. R. M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.492, pp.48-51, 2010 (SCI-Expanded)
- XLVIII. **Comparison of levitation force relative to thickness of disk shaped YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> prepared by MPMG and FQMG processes**  
Kutuk S., BOLAT S., Basoglu M., ÖZTÜRK K.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.488, no.1, pp.425-429, 2009 (SCI-Expanded)
- XLIX. **Determination of levitation force and pinning properties of (Sm<sub>123</sub>)(1-x)(Yb<sub>211</sub>)(x) bulk superconductor depending on Yb<sub>211</sub> doping ratio**  
ÖZTÜRK K., Celik S., Cansiz A.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.206, no.11, pp.2569-2575, 2009 (SCI-Expanded)
- L. **Semiempirical equation of the levitation-force density for (Sm<sub>123</sub>)(1-x)(Yb<sub>211</sub>)(x) superconducting samples**  
Celik S., ÖZTÜRK K.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.206, no.4, pp.724-730, 2009 (SCI-Expanded)
- L. **Gadolinium diffusion-doping for enhancing activation energy in superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>**  
ÖZTÜRK K., Celik S., YANMAZ E.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.462, pp.19-23, 2008 (SCI-Expanded)
- LI. **Dependency of c-lattice parameter, activation energy and its magnetic power constant on x in Y<sub>1-x</sub>Yb<sub>x</sub>/2Gdx/2Ba(2)Cu(3)O<sub>7-y</sub> superconductors**  
Celik S., Oeztuerk K., YANMAZ E.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.458, pp.30-36, 2008 (SCI-Expanded)
- LII. **Effects of x in Yb<sub>1-x</sub>GdxBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-y</sub> samples on c-lattice parameter, activation energy and its magnetic power constant**  
Celik S., Oeztuerk K., YANMAZ E.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.456, pp.1-5, 2008 (SCI-Expanded)

- LIII. **Activation energy U(H) and pinning behavior of yb-impurity-diffused YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>**  
Ozturk K., CELIK S., YANMAZ E., SAVASKAN B.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.204, no.10, pp.3478-3486, 2007 (SCI-Expanded)
- LIV. **The effect of Gd diffusion-doped on structural and superconducting properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconductors**  
OZTURK K., CELIK S., Cevik U., YANMAZ E.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.433, pp.46-52, 2007 (SCI-Expanded)
- LV. **Copper diffusion in ZnS thin films**  
BACAŞIZ E., DZHAFAROV T., NOVRUZOV V., OZTURK K., TOMAKIN M., Kucukomeroglu T., ALTUNBAS M., YANMAZ E., ABAY B.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.201, no.13, pp.2948-2952, 2004 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Magnetic Characteristics of the Multi-Surface HTS-PMG Interactions in Maglev System**  
ÖZTÜRK K., ABDİOĞLU M., Karaahmet Z.  
COMSOL Conference 2019 Cambridge, 24 - 26 September 2019
- II. **Üstten-Çekirdeklenmiş-Eritme-Büyütme (TSMG) Yöntemiyle Üretilen İki Çekirdekli Silindirik YBCO Süperiletkenlerinde Manyetik Kaldırma Kuvveti ve Tuzaklanan Alan Özelliklerinin Araştırılması**  
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Publication: 113  
Citation (WoS): 463  
Citation (Scopus): 478  
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## Scholarships

Doktora Sonrası Yurtdışı Araştırma Bursu, Warwick University, UK (9 ay), TUBITAK, 2015 - Continues  
Doktora Sonrası Yurtdışı Araştırma Bursu, Cambridge University, UK (6ay), YOK, 2010 - Continues

## Non Academic Experience

Warwick University, Warwick Manufacturing Group  
Department of Materials Science and Metallurgy, University of Cambridge, UK  
TC Milli Eğitim Bakanlığı