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Personal Information

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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2013 - 2019

Under Graduate, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2015 - 2018

Post Graduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2011 - 2013

Post Graduate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2010 - 2011

Under Graduate, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, Turkey 2003 - 2010

Under Graduate, Anadolu University, Açıköğretim Fakültesi, Kamu Yönetimi, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, FeSe Tabanlı Kristallerin Üretimi, Karakterizasyonu ve Fiziksel Özelliklerinin Araştırılması, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2019

Post Graduate, Na KATKILI BSCCO SÜPERİLETKENİNİN AKTİVASYON ENERJİSİNE SİNERJİLEME SICAKLIĞININ ETKİSİ, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2013

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Thermal Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Magnetic Properties and Materials, Superconductivity, Natural Sciences

Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Edebiyat Fakültesi, Fizik, 2018 - Continues

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2011 - 2018

Research Assistant, --Seçiniz--, Leibniz Institute For Solid State And Materials Research, Dresden, Institute For Solid State Research, 2014 - 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. Increase of electric performances in $\text{Bi}_2\text{Sr}_{2-x}\text{Rb}_x\text{Co}_2\text{O}_8$ laser grown ceramics induced by

annealing

ÖZÇELİK B., ÇETİN G., GÜRSUL M., Ozcelik C., Torres M. A. , Madre M. A. , Sotelo A.
SOLID STATE SCIENCES, vol.108, 2020 (Journal Indexed in SCI)

- II. **Effect of annealing and potassium substitution on the thermoelectric and magnetic properties of directionally grown Bi₂Sr₂Co₂O_y ceramics**
ÇETİN G., ÖZÇELİK B., GÜRSUL M., Torres M. A. , Madre M. A. , Sotelo A.
Boletín de la Sociedad Española de Cerámica y Vidrio, vol.59, no.3, pp.121-128, 2020 (Journal Indexed in SCI)
- III. **Low temperature thermoelectric properties of K-substituted Bi₂Sr₂Co₂O_y ceramics prepared via laser floating zone technique**
ÖZÇELİK B., ÇETİN G., GÜRSUL M., MADRE M. A. , SOTELO A., ADACHÍ S., TAKANO Y.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.39, no.10, pp.3082-3087, 2019 (Journal Indexed in SCI)
- IV. **Structural and physical properties of Na-substituted K_{0.8}Fe_{2-y}Se₂ single crystal**
GÜRSUL M., ÖZÇELİK B., LIU M., BOLTALIN A. I. , MOROZOV I. V.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.777, pp.1074-1079, 2019 (Journal Indexed in SCI)
- V. **Effect of Na-substitution on magnetoresistance and flux pinning energy of Bi-2212 ceramics prepared via hot-forging process**
ÖZÇELİK B., GÜRSUL M., NANE F. K. , Madre M. A. , Sotelo A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.22, pp.19147-19154, 2018 (Journal Indexed in SCI)
- VI. **Effect of Sodium Substitution on Structural and Magnetic Properties of KFe_{2-y}Se₂**
GÜRSUL M., ÖZÇELİK B., EKİCİBİL A., LIU M., Boltalin A. I. , Morozov I. V.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.9, pp.2401-2406, 2016 (Journal Indexed in SCI)
- VII. **Effect of Cooling Rate on Structure, Composition, and Superconducting Properties of FeTe_{0.6}Se_{0.4} Prepared by Self-Flux Technique**
GÜRSUL M., EKİCİBİL A., GULER N. K. , ÖZÇELİK B.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.5, pp.1187-1192, 2016 (Journal Indexed in SCI)
- VIII. **Thermal Conductivity and Thermoelectric Power of Potassium and Sodium-Substituted Bi-2212 Superconductor Prepared by PEI Technique**
ÖZÇELİK B., TANGUNER A., GÜRSUL M., Sotelo A., Madre M. A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.9, pp.2641-2647, 2015 (Journal Indexed in SCI)
- IX. **Sintering Effects in Na-Substituted Bi-(2212) Superconductor Prepared by a Polymer Method**
GÜRSUL M., EKİCİBİL A., ÖZÇELİK B., Madre M. A. , Sotelo A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.7, pp.1913-1924, 2015 (Journal Indexed in SCI)
- X. **Improvement of the intergranular pinning energy in the Na-doped Bi-2212 superconductors**
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M. A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.5, pp.2830-2837, 2015 (Journal Indexed in SCI)
- XI. **Improvement of superconducting properties in Na-doped BSCCO superconductor**
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M. A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.1, pp.441-447, 2015 (Journal Indexed in SCI)
- XII. **Effect of K substitution on Structural, Electrical and Magnetic Properties of Bi-2212 system**
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M. A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, is.10, pp.4476-4482, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Effects of Rotor Material on Eddy Current Brake Performance**
ULUOCAK İ., YAVUZ H., GÜRSUL M.
European Mechanical Science, vol.1, no.4, pp.129-132, 2017 (Refereed Journals of Other Institutions)
- II. **The synthesis and magnetic structure of the iron selenide Ba_{0.8}Fe₂Se₂**
KANTARCI GÜLER N., GÜRSUL M., IŞIK C., EKİCİBİL A., ÖZÇELİK B., OKAZAKI H., TAKEYA H., TAKANO Y.
Journal of Physics: Conference Series, vol.667, no.12003, 2016 (Refereed Journals of Other Institutions)
- III. **"The physical and magnetic properties of FeSe₁₁ superconductor**
IŞIK C., KANTARCI GÜLER N., GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.
Journal of Physics: Conference Series, vol.667, no.12002, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Enhancement of the Low Temperature Thermoelectric Performance of Na-substituted Bi₂Sr₂Co₂O_x Ceramics**
ÇETİN G., ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M., SHİNTARO A., YOSHİHİKO T.
International Conference on Condensed Matter and Material Science, Adana, Türkiye 14-19 Ekim 2019, 14 - 19 October 2019
- II. **Synthesis, Composition and Structural Properties of Superconducting B-FeSe**
GÜRSUL M., ÖZÇELİK B.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 April 2019
- III. **Effect of Cs-substitution on Bi₂Sr₂Co₂O_x Thermoelectric Materials**
ÖZÇELİK B., ÇETİN KARAKAYA G., GÜRSUL M.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), 4 - 06 October 2018
- IV. **Structural composition and thermoelectric properties of bulk Bi₂Ca_{2-x}NaxCo_{1.8}O_y materials**
ÖZÇELİK B., ÇETİN G., GÜRSUL M.
MATERIALS SCIENCE AND ADVANCED-NANOTECHNOLOGIES FOR NEXT GENERATION (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.47-48
- V. **Effects of Rotor Material on Eddy Current Brake Performance**
ULUOCAK İ., YAVUZ H., GÜRSUL M.
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- VI. **Synthesis, crystal structure and magnetic properties of the Iron Selenide CeFe₂Se₂**
GÜRSUL M., ÖZÇELİK B.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017
- VII. **Synthesis, crystal structure and magnetic properties of the Iron Selenide CeFe₂Se₂**
GÜRSUL M., ÖZÇELİK B.
2nd International Mediterranean Science and Engineering Congress (IMSEC2017), Adana, Turkey, 25 - 27 October 2017, pp.611
- VIII. **Synthesis, crystal structure and magnetic properties of the Iron Selenide CeFe₂Se₂**
GÜRSUL M., ÖZÇELİK B.
2nd International Mediterranean Science and Engineering Congress (IMSEC2017), Adana, Turkey, 25 - 27 October 2017, pp.611
- IX. **Improvement of the thermoelectric properties of Bi₂Ca₂Co_{1.8}O_y by K substitution**
GÜRSUL M., ÖZÇELİK B., TORRES M. A., MADRE A., SOTELO A.
2nd International Mediterranean Science and Engineering Congress (IMSEC2017), Adana, Turkey, 25 - 27 October 2017, pp.6
- X. **Improvement of the thermoelectric properties of Bi₂Ca₂Co_{1.8}O_y by K substitution**
GÜRSUL M., ÖZÇELİK B., TORRES M. A., MADRE A., SOTELO A.

2nd International Mediterranean Science and Engineering Congress (IMSEC2017), Adana, Turkey, 25 - 27 October 2017, pp.6

- XI. **Effects of Ti Substitution on Thermoelectric Properties of Bi₂Sr₂Co_{1.80}O_y Ceramic Textured by Laser Floating Zone (LFZ) Technique**
ÖZÇELİK B., GÜRSUL M., Torres M. A. , Sotelo A., Madre M.
International Conference on Condensed Matter and Material Science, Adana,Türkiye, 11 - 15 October 2017
- XII. **Effects of Ti Substitution on Thermoelectric Properties of Bi₂Sr₂Co_{1.80}O_y Ceramic Textured by Laser Floating Zone (LFZ) Technique**
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M., Torres M.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017, pp.116
- XIII. **Improvement of the Superconducting Properties of FeSe_{0.4}Te_{0.6} by Increasing Cooling Rate**
GÜRSUL M., ÖZÇELİK B.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017, pp.56
- XIV. **Improvement of the Superconducting Properties of FeSe_{0.4}Te_{0.6} by Increasing Cooling Rate**
GÜRSUL M., ÖZÇELİK B.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017, pp.56
- XV. **Synthesis Properties of FeSe Based Superconductors**
GÜRSUL M., ÖZÇELİK B.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.59
- XVI. **Effect of Na Substitution on the Physical, Magnetoresistivity and Flux Pinning Energy of the Bi₂Sr₂Ca_{1-x}NaxCu₂O_{8+y} Superconductors**
ÖZÇELİK B., GÜRSUL M., SOTELO A., MADRE A.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.19
- XVII. **Structural and Magnetic Properties of the Iron Selenide K_{0.64}Na_{0.16}Fe_{2-y}Se₂**
GÜRSUL M., LIU M., Morozov I., ÖZÇELİK B.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.189
- XVIII. **Synthesis Properties of FeSe Based Superconductors**
GÜRSUL M., ÖZÇELİK B.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.59
- XIX. **Structural and Magnetic Properties of the Iron Selenide K_{0.64}Na_{0.16}Fe_{2-y}Se₂**
GÜRSUL M., LIU M., Morozov I., ÖZÇELİK B.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.189
- XX. **Effect of Na Substitution on the Physical, Magnetoresistivity and Flux Pinning Energy of the Bi₂Sr₂Ca_{1-x}NaxCu₂O_{8+y} Superconductors**
ÖZÇELİK B., GÜRSUL M., SOTELO A., MADRE A.
4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, pp.19
- XXI. **Characterization of the phase composition crystal structure and magnetic properties of the iron selenide BaFe₂Se₂**
GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- XXII. **Characterization of phase composition crystal structure and magnetic properties of the iron selenide BaFe₂Se₂**
GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.

1st International Mediterranean Science and Engineering Congress (IMSEC 2016), 26 - 28 October 2016

- XXIII. **Structural and Magnetic Properties of $K1-xNa_xFe2-ySe2$**
ÖZÇELİK B., EKİCİBİL A., GÜRSUL M.
THE EMN PRAGUE MEETING 2016, Prague, Czech Republic, 21 June - 24 July 2016, pp.130-131
- XXIV. **Structural and Magnetic Properties of $K1-xNa_xFe2-ySe2$**
ÖZÇELİK B., EKİCİBİL A., GÜRSUL M.
THE EMN PRAGUE MEETING 2016, Prague, Czech Republic, 21 June - 24 July 2016, pp.130-131
- XXV. **Structural and Magnetic Properties of $K1-xNa_xFe2-ySe2$**
ÖZÇELİK B., GÜRSUL M., EKİCİBİL A.
THE EMN PRAGUE MEETING, Prag, Czech Republic, 21 - 24 June 2016, pp.130-131
- XXVI. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF $K1-xFe2-ySe2$**
ÖZÇELİK B., GÜRSUL M., EKİCİBİL A., LİU M., MOROZOV I., WURMEHL S., BÜCHNER B.
International Congress on Superconductivity and Magnetism (ICSM2016), Antalya, Turkey, 24 - 30 April 2016, pp.763
- XXVII. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF $K1-xFe2-ySe2$**
EKİCİBİL A., GÜRSUL M., ÖZÇELİK B.
ICSM 2016, Antalya, Turkey, 24 - 30 April 2016, pp.758
- XXVIII. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF $K1-xFe2-ySe2$**
EKİCİBİL A., GÜRSUL M., ÖZÇELİK B.
ICSM 2016, Antalya, Turkey, 24 - 30 April 2016, pp.758
- XXIX. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF $K1-xFe2-ySe2$**
ÖZÇELİK B., GÜRSUL M., EKİCİBİL A., LİU M., MOROZOV I., WURMEHL S., BÜCHNER B.
International Congress on Superconductivity and Magnetism (ICSM2016), Antalya, Turkey, 24 - 30 April 2016, pp.763
- XXX. **The physical and magnetic properties of FeSe-11 superconductor**
Isik C., GULER N. K. , GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.
9th International Conference on Magnetic and Superconducting Materials (MSM), Antalya, Turkey, 30 April - 03 May 2015, vol.667
- XXXI. **The synthesis and magnetic structure of the iron selenide $Ba0.8Fe2Se2$**
Guler N. K. , Gürsul M., Isik C., Ekicibil A., Özçelik B., Okazaki H., Takeya H., Takano Y.
9th International Conference on Magnetic and Superconducting Materials (MSM), Antalya, Turkey, 30 April - 03 May 2015, vol.667
- XXXII. **Thermal Conductivity and Thermoelectric Power of Potassium and Sodium Substituted Bi 2212 Superconductor prepared by PEI Technique**
ÖZÇELİK B., tangüner a., GÜRSUL M., sotelo a., madre m.
9th International Conference on Magnetic and Superconducting Materials (MSM15), 30 April - 03 May 2015
- XXXIII. **Structure and Superconducting properties of $FeTe0.6Se0.4$**
Kantarci Güler N., GÜRSUL M., EKİCİBİL A., ÖZÇELİK B., Wurmehl S., Schulz M., Büchner B.
9th International Conference on Magnetic and Superconducting Materials (MSM15), 30 April - 03 May 2015
- XXXIV. **Effect of Na substitution on the Activation Energy of BSCCO superconductor**
GÜRSUL M., ÖZÇELİK B., Sotelo A., Madre M. A.
4th International Conference on Superconductivity and Magnetism, Antalya, Turkey, 27 April 2014 - 02 March 2015, pp.1

Other Publications

- I. **Ç.Ü. FEF Ders Notu Genel Fizik III Laboratuvarı**
UFUKTEPE Y., KARAKILÇIK M., YÜKSEL M., AKYOL M., AKÇA G., AKÇA S., GÜRSUL M., ŞEKER(ZAİMOĞLU) Z., ÇETİN G., YEĞEN S. B. , et al.
Lecture Note, pp.145, 2015

II. Genel Fizik III Laboratuvarı

UFUKTEPE Y., Karakılıç M., YÜKSEL M., AKYOL M., AKÇA G., AKÇA S., GÜRSUL M., ŞEKER(ZAİMOĞLU) Z., ÇETİN G., Balcı Yegen S., et al.
Experiment, pp.1, 2015

Supported Projects

ÖZÇELİK B., GÜRSUL M., ÇETİN G., Project Supported by Higher Education Institutions, Cs Katkısının Bi2Sr2Co2Ox Termoelektrik Malzemeleri Üzerine Etkisi, 2018 - 2019

ÖZÇELİK B., GÜRSUL M., Project Supported by Higher Education Institutions, FeSe Tabanlı Kristallerin Üretimi Karakterizasyonu ve Fiziksel Özelliklerinin Araştırılması, 2015 - 2019

ÖZÇELİK B., GÜRSUL M., Project Supported by Higher Education Institutions, Ti Katkısının LFZ tekniğiyle üretilmiş Bi2Sr2Co2Ox Termoelektrik Malzemeleri Üzerine Etkisi, 2017 - 2018

ÖZÇELİK B., GÜRSUL M., Project Supported by Higher Education Institutions, Seramik Tabanlı Termoelektrik Malzemelerin Üretimi, 2017 - 2017

Citations

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