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### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: G-5239-2018

Yoksis Araştırmacı ID: 184334

### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2013 - 2019

Lisans, Çukurova Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Türkiye 2015 - 2018

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2011 - 2013

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2010 - 2011

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Türkiye 2003 - 2010

Lisans, Anadolu Üniversitesi, Açıköğretim Fakültesi, Kamu Yönetimi, Türkiye 2005 - 2009

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, FeSe Tabanlı Kristallerin Üretimi, Karakterizasyonu ve Fiziksel Özelliklerinin Araştırılması, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2019

Yüksek Lisans, Na KATKILI BSCCO SÜPERİLETKENİNİN AKTİVASYON ENERJİSİNE SİNERJİLEME SICAKLIĞININ ETKİSİ, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2013

### Araştırma Alanları

Fizik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun maddenin termal özellikleri, Yoğun Madde

2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Manyetik özellikler ve malzemeler, Süperiletkenlik, Temel Bilimler

### Akademik Unvanlar / Görevler

Araştırma Görevlisi, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2011 - 2018

Araştırma Görevlisi, –Seçiniz–, Leibniz Institute For Solid State And Materials Research, Dresden, Institute For Solid State Research, 2014 - 2015

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

- I. **Remarkable variation in microstructural, thermoelectric, and magnetic properties of CaMnO<sub>3</sub> through Ce doping**  
GÜRSUL M., ÇETİN G., ERGİN İ., Korkmaz L., ÖZÇELİK B., Torres M., Madre M., Sotelo A.  
Materials Science and Engineering: B, cilt.299, 2024 (SCI-Expanded)
- II. **Drastic microstructural modification of Bi<sub>2</sub>Ca<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> ceramics by Na doping and laser texturing**  
Özçelik C., Depci T., Gürsul M., Çetin G., Özçelik B., Torres M. A., Madre M. A., Sotelo A.  
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- III. **Detailed low temperature studies on thermoelectric performance of K-doped Bi<sub>2</sub>Ca<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> ceramics fibers**  
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PHYSICA SCRIPTA, cilt.97, sa.8, 2022 (SCI-Expanded)
- IV. **Impact of silver addition on the superconducting performances of Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>0.925</sub>Na<sub>0.075</sub>Cu<sub>2</sub>O<sub>y</sub>:Ag composite fibers**  
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JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, cilt.1, sa.1, ss.1-10, 2022 (SCI-Expanded)
- V. **Role of Y substitution for Ca-site on magneto-resistivity properties of Bi-2212 superconductor rods prepared by LFZ**  
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- VI. **Tuning thermoelectric properties of Bi<sub>2</sub>Ca<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> through K doping and laser floating zone processing**  
Ozcelik C., Depci T., GÜRSUL M., ÇETİN G., ÖZÇELİK B., Torres M. A., Madre M. A., Sotelo A.  
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- VII. **Significant enhancement of superconducting performances of Bi-2212 fibers through combined sodium substitution and LFZ process**  
GÜRSUL M., Ergin İ., Ozcelik C., Depci T., ÖZÇELİK B., Madre M. A., Sotelo A.  
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- VIII. **Increase of electric performances in Bi<sub>2</sub>Sr<sub>2-x</sub>Rb<sub>x</sub>Co<sub>2</sub>O<sub>8</sub>+delta laser grown ceramics induced by annealing**  
ÖZÇELİK B., ÇETİN G., GÜRSUL M., Ozcelik C., Torres M. A., Madre M. A., Sotelo A.  
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- IX. **Effect of annealing and potassium substitution on the thermoelectric and magnetic properties of directionally grown Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> ceramics**  
ÇETİN G., ÖZÇELİK B., GÜRSUL M., Torres M. A., Madre M. A., Sotelo A.  
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- X. **Low temperature thermoelectric properties of K-substituted Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> ceramics prepared via laser floating zone technique**  
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- XI. **Structural and physical properties of Na-substituted K<sub>0.8</sub>Fe<sub>2-y</sub>Se<sub>2</sub> single crystal**  
GÜRSUL M., ÖZÇELİK B., LİU M., BOLTALIN A. I., MOROZOV I. V.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.777, ss.1074-1079, 2019 (SCI-Expanded)
- XII. **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, cilt.29, sa.22, ss.19147-19154, 2018 (SCI-Expanded)
- XIII. **Effect of Sodium Substitution on Structural and Magnetic Properties of KFe<sub>2-y</sub>Se<sub>2</sub>**  
GÜRSUL M., ÖZÇELİK B., EKİCİBİL A., LİU M., Boltalin A. I., Morozov I. V.

- JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.9, ss.2401-2406, 2016 (SCI-Expanded)
- XIV. **Effect of Cooling Rate on Structure, Composition, and Superconducting Properties of FeTe<sub>0.6</sub>Se<sub>0.4</sub> Prepared by Self-Flux Technique**  
GÜRSUL M., EKİCİBİL A., GULER N. K., ÖZÇELİK B.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.29, sa.5, ss.1187-1192, 2016 (SCI-Expanded)
- XV. **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.  
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- XVI. **Sintering Effects in Na-Substituted Bi-(2212) Superconductor Prepared by a Polymer Method**  
GÜRSUL M., EKİCİBİL A., ÖZÇELİK B., Madre M. A., Sotelo A.  
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- XVII. **Improvement of the intergranular pinning energy in the Na-doped Bi-2212 superconductors**  
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- XVIII. **Improvement of superconducting properties in Na-doped BSCCO superconductor**  
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- XIX. **Effect of K substitution on Structural, Electrical and Magnetic Properties of Bi-2212 system**  
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M. A.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Rapid Suppression of Superconductivity in Co<sub>3</sub>O<sub>4</sub> Nanoparticles-added Bi-2212 Ceramics**  
GÜRSUL M.  
Türk Doğa ve Fen Dergisi, cilt.12, sa.1, ss.44-52, 2023 (Hakemli Dergi)
- II. **Detail investigation of thermoelectric performance and magnetic properties of Cs-doped Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>2</sub>O<sub>y</sub> ceramic materials**  
Ozcelik B., Gursul M., Cetin G., Ozcelik C., Torres M. A., Madre M. A., Sotelo A.  
SN APPLIED SCIENCES, cilt.3, sa.1, 2021 (ESCI)
- III. **Effects of Rotor Material on Eddy Current Brake Performance**  
ULUOCAK İ., YAVUZ H., GÜRSUL M.  
European Mechanical Science, cilt.1, sa.4, ss.129-132, 2017 (Hakemli Dergi)
- IV. **The synthesis and magnetic structure of the iron selenide Ba<sub>0.8</sub>Fe<sub>2</sub>Se<sub>2</sub>**  
KANTARCI GÜLER N., GÜRSUL M., İŞİK C., EKİCİBİL A., ÖZÇELİK B., OKAZAKI H., TAKEYA H., TAKANO Y.  
Journal of Physics: Conference Series, cilt.667, sa.12003, 2016 (Scopus)
- V. **"The physical and magnetic properties of FeSe<sub>11</sub> superconductor**  
İŞİK C., KANTARCI GÜLER N., GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.  
Journal of Physics: Conference Series, cilt.667, sa.12002, 2016 (Scopus)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Role of Bi-Site Zn substitution on structural, superconducting and magnetic features of Bi-2212**  
KARAÇORA F., GÜRSUL M., ÖZÇELİK B.  
1st International Conference on Engineering, Natural and Social Sciences, Konya, Türkiye, 20 - 22 Aralık 2022
- II. **ENHANCEMENT of THERMOELECTRIC PROPERTIES by Na and Y SUBSTITUTION into CaMnO<sub>3</sub>**  
Çetin G., Ergin İ., Gürsul M., Özçelik B., Sotelo A., Madre M. A.

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- III. **DETERMINATION OF THE MOST SUITABLE CATIONIC SITE FOR NA-SUBSTITUTION IN Bi-2212 PHASE**  
GÜRSUL M.  
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VI, Ankara, Türkiye, 02 Aralık 2022 - 04 Ocak 2023
- IV. **The influence of Ce substitution on structural and transport properties of CaMnO<sub>3</sub>**  
Gürsul M., Çetin G., Ergin İ., Sotelo A., Madre M. M., Özçelik B.  
5 International Mediterranean Science and Engineering Congress, Antalya, Türkiye, 21 - 23 Ekim 2020, ss.729
- V. **A Study on Thermoelectric Properties of Ca<sub>1-x</sub>Sr<sub>x</sub>MnO<sub>3</sub> Perovskite Oxides**  
Gürsul M., Çetin G., Ergin İ., Sotelo A., M A M., Özçelik B.  
4th International virtual Conference on Physical Chemistry & Functional Materials (PCFM'21), Elazığ, Türkiye, 08 Nisan 2021
- VI. **Physical properties of NiO added Bi-2212 superconducting ceramics**  
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- VII. **Enhancement of the Low Temperature Thermoelectric Performance of Na-substituted Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>2</sub>O<sub>x</sub> 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 Ekim 2019
- VIII. **Synthesis, Composition and Structural Properties of Superconducting B-FeSe**  
GÜRSUL M., ÖZÇELİK B.  
4nd International Mediterranean Science and Engineering Congress (IMSEC 2019), 25 - 27 Nisan 2019
- IX. **Effect of Cs-substitution on Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>2</sub>O<sub>x</sub> Thermoelectric Materials**  
ÖZÇELİK B., ÇETİN KARAKAYA G., GÜRSUL M.  
5th International conference on materials science and nanotechnology for next generation (MSNG2018), 4 - 06 Ekim 2018
- X. **Structural composition and thermoelectric properties of bulk Bi<sub>2</sub>Ca<sub>2-x</sub>NaxCo<sub>1.8</sub>O<sub>y</sub> materials**  
ÖZÇELİK B., ÇETİN G., GÜRSUL M.  
MATERIALS SCIENCE AND ADVANCED-NANOTECHNOLOGIES FOR NEXT GENERATION (MSNG2018), Nevşehir, Türkiye, 4 - 06 Ekim 2018, ss.47-48
- XI. **Remarks on FeSe Based Superconductors**  
GÜRSUL M., ÖZÇELİK B.  
International Conference on Physical Chemistry and Functional Materials (PCFM'18), Elazığ, Türkiye, 19 - 21 Haziran 2018
- XII. **Thermoelectric and Magnetic Properties of Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>1.8-x</sub>TixO<sub>y</sub> Ceramic**  
ÇETİN G., GÜRSUL M., TORRES M., MADRE M. A., SOTELO A., ÖZÇELİK B.  
International Conference on Physical Chemistry and Functional Materials (PCFM'18), Elazığ, Türkiye, 19 - 21 Haziran 2018
- XIII. **ELECTRICAL PROPERTIES AND FLUX PINNING ENERGY OF Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1-x</sub>NaxCu<sub>2</sub>O<sub>8+δ</sub> FIBERS**  
KARAÇORA NANE F., GÜRSUL M., ERGİN İ., MADRE M. A., SOTELO A., ÖZÇELİK B.  
6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya, Türkiye, 29 Nisan - 04 Mayıs 2018
- XIV. **SYNTHESIS, STRUCTURAL, AND MAGNETIC PROPERTIES OF THE IRON-SELENIDE Na<sub>x</sub>K<sub>0.8-x</sub>Fe<sub>2</sub>Se<sub>2</sub>**  
GÜRSUL M., Liu M., Boltalin A., Morozov I. V., ÖZÇELİK B.  
6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya, Türkiye, 29 Nisan - 04 Mayıs 2018
- XV. **ELECTRICAL PROPERTIES AND FLUX PINNING ENERGY OF Y- SUBSTITUTED Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+δ</sub> SUPERCONDUCTORS**  
KARAÇORA NANE F., GÜRSUL M., ERGİN İ., MADRE M. A., SOTELO A., ÖZÇELİK B.

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- XVI. **Processing of Superconducting and Thermoelectric Bulk Materials via Laser Technologies**  
ÖZÇELİK B., ÇETİN G., GÜRSUL M., SOTELO A., MADRE M. A.  
Functional Nanostructures and Sensors for CBRN Defence and Environmental Safety and Security "FNS-CBRN Defence – 2018, Chisinau, Moldova, 14 Haziran - 17 Nisan 2018
- XVII. **EFFECT OF Na SUBSTITUTION ON SUPERCONDUCTING PROPERTIES, MAGNETORESISTANCE AND FLUX PINNING ENERGY OF Bi-2212 CERAMICS PREPARED BY SINTER-FORGED PROCESS**  
GÜRSUL M., KARAÇORA NANE F., SOTELO A., MADRE M. A., ÖZÇELİK B.  
6th International Conference on Superconductivity and Magnetism (ICSM2018), Antalya, Türkiye, 29 Nisan - 04 Mayıs 2018
- XVIII. **Effects of Rotor Material on Eddy Current Brake Performance**  
Uluocak İ., Yavuz H., Gürsul M.  
2nd International Mediterranean Science and Engineering Congress, Adana, Türkiye, 25 - 27 Ekim 2017
- XIX. **Synthesis, crystal structure and magnetic properties of the Iron Selenide CeFe<sub>2</sub>Se<sub>2</sub>**  
GÜRSUL M., ÖZÇELİK B.  
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- XX. **Synthesis, crystal structure and magnetic properties of the Iron Selenide CeFe<sub>2</sub>Se<sub>2</sub>**  
GÜRSUL M., ÖZÇELİK B.  
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- XXI. **Improvement of the thermoelectric properties of Bi<sub>2</sub>Ca<sub>2</sub>Co<sub>1.80</sub>y by K substitution**  
GÜRSUL M., ÖZÇELİK B., TORRES M. A., MADRE A., SOTELO A.  
2nd International Mediterranean Science and Engineering Congress (IMSEC2017), Adana, Türkiye, 25 - 27 Ekim 2017, ss.6
- XXII. **Effects of Ti Substitution on Thermoelectric Properties of Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>1.80</sub>y Ceramic Textured by Laser Floating Zone (LFZ) Technique**  
ÖZÇELİK B., GÜRSUL M., Torres M. A., Sotelo A., Madre M.  
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- XXIII. **Improvement of the Superconducting Properties of FeSe<sub>0.4</sub>Te<sub>0.6</sub> by Increasing Cooling Rate**  
GÜRSUL M., ÖZÇELİK B.  
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- XXIV. **Effects of Ti Substitution on Thermoelectric Properties of Bi<sub>2</sub>Sr<sub>2</sub>Co<sub>1.80</sub>y Ceramic Textured by Laser Floating Zone (LFZ) Technique**  
ÖZÇELİK B., GÜRSUL M., Sotelo A., Madre M., Torres M.  
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- XXV. **Effect of Na Substitution on the Physical, Magnetoresistivity and Flux Pinning Energy of the Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>1-x</sub>NaxCu<sub>2</sub>O<sub>8</sub>+ Superconductors**  
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4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosna-Hersek, 28 - 30 Haziran 2017, ss.19
- XXVI. **Synthesis Properties of FeSe Based Superconductors**  
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4th International conference on materials science and nanotechnology for next generation (MSNG2017), Saraybosna, Bosna-Hersek, 28 - 30 Haziran 2017, ss.59
- XXVII. **Structural and Magnetic Properties of the Iron Selenide K<sub>0.64</sub>Na<sub>0.16</sub>Fe<sub>2-y</sub>Se<sub>2</sub>**  
GÜRSUL M., LIU M., Morozov I., ÖZÇELİK B.  
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- XXVIII. **Characterization of the phase composition crystal structure and magnetic properties of the iron selenide BaFe<sub>2</sub>Se<sub>2</sub>**

GÜRSUL M., EKİCİBİL A., ÖZÇELİK B.

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- XXIX. **Characterization of phase composition crystal structure and magnetic properties of the iron selenide BaFe<sub>2</sub>Se<sub>2</sub>**  
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- XXX. **Structural and Magnetic Properties of K<sub>1-x</sub>Na<sub>x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
ÖZÇELİK B., GÜRSUL M., EKİCİBİL A.  
THE EMN PRAGUE MEETING, Prag, Çek Cumhuriyeti, 21 - 24 Haziran 2016, ss.130-131
- XXXI. **Structural and Magnetic Properties of K<sub>1-x</sub>Na<sub>x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
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- XXXII. **Structural and Magnetic Properties of K<sub>1-x</sub>Na<sub>x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
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- XXXIII. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF K<sub>1-x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
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ÖZÇELİK B., GÜRSUL M., EKİCİBİL A., LİU M., MOROZOV I., WURMEHL S., BÜCHNER B.  
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- XXXV. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF K<sub>1-x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
EKİCİBİL A., GÜRSUL M., ÖZÇELİK B.  
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- XXXVI. **EFFECT OF Na-SUBSTITUTION ON THE SUPERCONDUCTING PROPERTIES OF K<sub>1-x</sub>Fe<sub>2</sub>-ySe<sub>2</sub>**  
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ICSM 2016, Antalya, Türkiye, 24 - 30 Nisan 2016, ss.758
- XXXVII. **The synthesis and magnetic structure of the iron selenide Ba<sub>0.8</sub>Fe<sub>2</sub>Se<sub>2</sub>**  
Guler N. K., Gürsul M., Isik C., Ekicibil A., Özçelik B., Okazaki H., Takeya H., Takano Y.  
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- XXXVIII. **The physical and magnetic properties of FeSe-11 superconductor**  
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## Metrikler

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