

## Doç. Dr. GÖNÜL AKÇA

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2010 - 2018

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 2006 - 2010

Lisans, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Türkiye 2002 - 2006

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, (La<sub>1-x</sub>RE<sub>x</sub>)<sub>0.85</sub>K<sub>0.15</sub>MnO<sub>3</sub> (RE = Pr ve Sm) MANGANİT BİLEŞİKLERİNİN YAPISAL, MANYETİK VE MANYETOKALORİK ÖZELLİKLERİNİN İNCELENMESİ, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 2018

Yüksek Lisans, (Li-Ho) katkılı BPSCCO için süperiletkenlik özellikleri, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 2010

### Araştırma Alanları

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

### Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2018 - Devam Ediyor

Araştırma Görevlisi, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2009 - 2018

### Verdiği Dersler

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

- I. **Study of magnetocaloric properties of small Bi-doped  $\text{Pr}_{0.55}\text{Ca}_{0.05}\text{Ba}_{0.40}\text{Mn}_{1-x}\text{Bi}_x\text{O}_3$  manganites**  
Akça G., Kılıç Çetin S., Ekicibil A.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, cilt.35, sa.1442, ss.1-13, 2024 (SCI-Expanded)
- II. **Optimizing the curie temperature of  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ -based composite materials around room temperature through the addition of Mo, Mn, and Ni metallic elements**  
Ak Y. S., Coşkun A. T., Kılıç Çetin S., Akça G., Irmak A. E., Ekicibil A., Coşkun A.  
Journal of Materials Science: Materials in Electronics, cilt.35, sa.16, 2024 (SCI-Expanded)
- III. **Room-temperature magnetocaloric properties of  $\text{yLa}_{0.67}\text{Ca}_{0.27}\text{Sr}_{0.06}\text{MnO}_3/1-y\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{0.95}\text{Cu}_{0.05}\text{O}_3$  composites**  
Kılıç Çetin S., Akça G., Aslan M. S., Ekicibil A.  
Journal of Thermal Analysis and Calorimetry, cilt.1, sa.24, ss.1-11, 2024 (SCI-Expanded)
- IV. **Enhancement of magnetocaloric effect by partial substitution of Bi in  $\text{La}_{0.60}\text{Dy}_{0.10}\text{Sr}_{0.30}\text{Mn}_{(1-x)}\text{Bi}_x\text{O}_3$  manganites ( $x = 0, 0.01, 0.03, \text{ and } 0.10$ )**  
KURT M. Z., KILIÇ ÇETİN S., KANDEMİR A., AKÇA G., KARADAĞ F., EKİCİBİL A.  
Journal of Materials Science: Materials in Electronics, cilt.35, sa.8, 2024 (SCI-Expanded)
- V. **Magnetocaloric effect in  $\text{PrGd}_{1-x}\text{Ba}_x\text{Mn}_2\text{O}_6$  ( $0.0 \leq x \leq 1.0$ ) double perovskite manganite system**  
Akça G., Kandemir A., Ayaş A. O., Kılıç Çetin S., Akyol M., Ekicibil A.  
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- VI. **Effects of Ca substitution on magnetic and magnetocaloric properties in  $\text{PrBa}_{1-x}\text{Ca}_x\text{Mn}_2\text{O}_6$  system**  
Kandemir A., Akça G., Kılıç Çetin S., Ayaş A. O., Akyol M., Ekicibil A.  
JOURNAL OF SOLID STATE CHEMISTRY, cilt.324, ss.1-13, 2023 (SCI-Expanded)
- VII. **Magnetic refrigeration: Current progress in magnetocaloric properties of perovskite manganite materials**  
Ayaş A. O., Çetin S., Akça G., Akyol M., Ekicibil A.  
MATERIALS TODAY COMMUNICATIONS, cilt.35, ss.1-17, 2023 (SCI-Expanded)
- VIII. **A comparative study of magnetic, and magnetocaloric properties of different transition metal-doped  $\text{La}_{0.67}\text{Sr}_{0.33}\text{AO}_3$  (A: Mn, Co, Cr, and Fe) samples**  
Coşkun A. T., Ak Y. S., Güleç N., Akça G., Kılıç Çetin S., Ekicibil A., Coşkun A.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, cilt.34, ss.1-15, 2023 (SCI-Expanded)
- IX. **Large magnetocaloric effect in La-based manganite composites near room temperature**  
Kılıç Çetin S., Akça G., Ekicibil A.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, cilt.147, sa.23, ss.13073-13087, 2022 (SCI-Expanded)
- X. **Synthesis and characterization of bifunctional Ru doped La-based perovskites for magnetic refrigeration and energy storage systems**  
Kılıç Çetin S., Akça G., Kaya D., Ayaş A. O., Ekicibil A.  
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- XI. **Enhancement of magnetic entropy change in  $\text{La}_{0.57}\text{Nd}_{0.1}\text{Sr}_{0.33-x}\text{Ca}_x\text{MnO}_3$  manganites**  
Akça G.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, cilt.1, ss.1-18, 2022 (SCI-Expanded)
- XII. **Investigation of the effect of sintering temperature on structural, magnetic and magnetocaloric properties in  $\text{PrCaMn}_2\text{O}_6$  double perovskite manganite system**  
AYAŞ A. O., KANDEMİR A., CETİN S. K., AKÇA G., AKYOL M., EKİCİBİL A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.33, sa.10, ss.7357-7370, 2022 (SCI-Expanded)
- XIII. **Role of nickel doping on magnetocaloric properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Ni}_x\text{O}_3$  manganites**

Cetin S. K., AKÇA G., Aslan M. S., EKİCİBİL A.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.8, ss.10458-10472, 2021 (SCI-Expanded)

- XIV. **Microstructural Analysis, Magnetic Properties, and Critical Behavior of  $\text{La}_{0.7}\text{Ba}_{0.15}\text{Sr}_{0.15}\text{CoO}_3$  Perovskite**  
Alzahrani B., Akça G., Hcini S., Bouazizi M. L.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.34, sa.2, ss.507-518, 2021 (SCI-Expanded)
- XV. **Structural, Magnetic, and Electrical Properties of  $\text{Bi}_{1.6}\text{Pb}_{0.4}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$  Superconductor Prepared by Different Techniques**  
Coskun A., AKÇA G., Tasarkuyu E., Battal O., EKİCİBİL A.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.33, sa.11, ss.3377-3393, 2020 (SCI-Expanded)
- XVI. **Composite  $x\text{La}_{0.7}\text{Ca}_{0.2}\text{Sr}_{0.1}\text{MnO}_3 / (1-x)\text{La}_{0.7}\text{Te}_{0.3}\text{MnO}_3$  materials: magnetocaloric properties around room temperature**  
Akça G., Cetin S., Ekicibil A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.9, ss.6796-6808, 2020 (SCI-Expanded)
- XVII. **Structural, Magnetic, and Magnetocaloric Properties of Pb-Substituted  $\text{La}_{0.7}(\text{Te}_{1-x}\text{Pbx})_{0.3}\text{MnO}_3$  ( $0.0 \leq x \leq 0.3$ ) Manganites**  
KILIÇ ÇETİN S., AKÇA G., AYAŞ A. O., Akyol M., EKİCİBİL A.  
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- XVIII. **Effect of B site partial Ru substitution on structural magnetic and magnetocaloric properties in  $\text{La}_{0.7}\text{Pb}_{0.3}\text{Mn}_{1-x}\text{Ru}_x\text{O}_3$  ( $x=0.0, 0.1$  and  $0.2$ ) perovskite system**  
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- XIX. **Impact of small Er rare earth element substitution on magnetocaloric properties of  $(\text{La}_{0.9}\text{Er}_{0.1})_{0.6}\text{Pb}_{0.33}\text{MnO}_3$  perovskite**  
Cetin S., Akça G., Ekicibil A.  
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- XX. **Structural, magnetic and magnetocaloric properties of  $(\text{La}_{1-x}\text{Sm}_x)_{0.85}\text{K}_{0.15}\text{MnO}_3$  ( $x=0.0, 0.1, 0.2$  and  $0.3$ ) perovskite manganites**  
AKÇA G., Cetin S. K., EKİCİBİL A.  
CERAMICS INTERNATIONAL, cilt.43, sa.17, ss.15811-15820, 2017 (SCI-Expanded)
- XXI. **Effect of Monovalent Cation Doping on Structural, Magnetic, and Magnetocaloric Properties of  $\text{Pr}_{0.85}\text{A}_{0.15}\text{MnO}_3$  ( $\text{A} = \text{Ag}$  and  $\text{K}$ ) Manganites**  
AKÇA G., Ayas A. O., Cetin S. K., AKYOL M., EKİCİBİL A.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.30, sa.6, ss.1515-1525, 2017 (SCI-Expanded)
- XXII. **Magnetocaloric properties of  $(\text{La}_{1-x}\text{Pr}_x)_{0.85}\text{K}_{0.15}\text{MnO}_3$  ( $x=0.0, 0.1, 0.3$  and  $0.5$ ) perovskite manganites**  
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- XXIII. **Effect of Ca doping on thermally activated flux flow in the  $\text{Y}_3\text{Ba}_5\text{Cu}_8\text{O}_{18}$  superconductor**  
AKYOL M., Ayas A. O., AKÇA G., Cetin S., EKİCİBİL A.  
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- XXIV. **Magnetocaloric Properties of  $\text{La}_{0.85}\text{Ag}_{0.15}\text{MnO}_3$  and  $(\text{La}_{0.80}\text{Pr}_{0.20})_{0.85}\text{Ag}_{0.15}\text{MnO}_3$  Compounds**  
Ayas A. O., AKYOL M., CETIN S., AKÇA G., EKİCİBİL A., ÖZÇELİK B.  
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- XXV. **Effects of Mn and Gd Co-substituted into ZnO on Structural and Magnetic Properties**  
Bulcar K., AKYOL M., AKÇA G., Ayas A. O., TOPAKSU M., EKİCİBİL A.  
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- XXVI. **Influence of lithium-holmium co-doped on structural and electrical properties of BSCCO superconductor**  
AKÇA G., EKİCİBİL A., Kiyamac K.

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Effects of Mn-site doping on the magnetocaloric properties of  $\text{La}_{0.62}\text{Bi}_{0.05}\text{Ca}_{0.33}\text{Mn}_{1-x}\text{Ru}_x\text{O}_3$  manganite system**  
KILIÇ ÇETİN S., AKÇA G., EKİCİBİL A.  
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- II. **Effects of copper substitution to Mn-site on magnetic and magnetocaloric properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Cu}_x\text{O}_3$  manganites**  
KILIÇ ÇETİN S., AKÇA G., ASLAN M. S., EKİCİBİL A.  
Adıyaman Üniversitesi Fen Bilimleri Dergisi, cilt.12, sa.1, ss.142-161, 2022 (Hakemli Dergi)
- III. **Magnetic and Magnetocaloric Properties of  $0.5\text{La}_{0.7}\text{Ca}_{0.2}\text{Sr}_{0.1}\text{MnO}_3/0.5\text{La}_{0.7}\text{Te}_{0.3}\text{MnO}_3$  Composite**  
Akça G., Kılıç Çetin S., Ekicibil A.  
CUMHURİYET SCIENCE JOURNAL, cilt.41, sa.1, ss.144-151, 2020 (Hakemli Dergi)
- IV. **The Investigation of Structural, Magnetic and Magnetocaloric Properties of  $(\text{La}_{0.9}\text{Er}_{0.1})_{0.85}\text{K}_{0.15}\text{MnO}_3$  Manganite Compound**  
AKÇA G., KILIÇ ÇETİN S.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, cilt.34, sa.1, ss.139-144, 2019 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. **Transport Properties of Superconducting Materials**  
Ekicibil A., Karadağ F., Kiliç Çetin S., Ayaş A. O., Akça G., Akyol M., Kaya D.  
Superconducting Materials, Yassine Slimani, Essia Hannachi, Editör, Springer, London/Berlin, Singapore, ss.29-60, 2022
- II. **Transport Properties of Superconducting Materials**  
EKİCİBİL A., KARADAĞ F., KILIÇ ÇETİN S., AYAŞ A. O., AKÇA G., AKYOL M., KAYA D.  
Superconducting Materials, Slimani Yassine, Hannachi Essia, Editör, Springer, Singapore, ss.29-60, 2022

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Magnetocaloric, structural and magnetic properties of  $\text{La}_{0.85}\text{Bi}_{0.05}\text{Na}_{0.1}\text{MnO}_3$  manganite**  
Aslan M. S., Kılıç Çetin S., Akça G., Ekicibil A.  
5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Ankara, Türkiye, 26 Haziran - 28 Ağustos 2024, ss.1
- II. **Magnetic entropy change in Bi-doped  $\text{Nd}_{0.55}\text{Ca}_{0.05}\text{Ba}_{0.40}\text{Mn}_{1-x}\text{Bi}_x\text{O}_3$  ( $x = 0$  and  $0.02$ ) perovskite manganites**  
AKÇA G., KILIÇ ÇETİN S., EKİCİBİL A.  
Middle East International Conference on Contemporary Scientific Studies-VIII, Adana, Türkiye, 7 - 08 Ocak 2023
- III. **Structural, Magnetic and Magnetocaloric Features of  $\text{PrBa}_{1-x}\text{Ca}_x\text{Mn}_2\text{O}_6$  ( $0.0 \leq x \leq 0.3$ ) Double Perovskite Manganite System**  
Kandemir A., Akça G., Kılıç Çetin S., Ayaş A. O., Akyol M., Ekicibil A.  
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Türkiye, 14 - 16 Aralık 2022, ss.135
- IV. **Magnetic and Magnetocaloric properties of  $\text{Pr}_{0.6}\text{Sr}_{0.4}\text{MnO}_3$  manganite**  
Akça G.

6th International Conference on Advances in Natural and Applied Sciences, Ağrı, Türkiye, 11 - 13 Ekim 2022, ss.1

- V. **INVESTIGATION OF MAGNETIC AND MAGNETOCALORIC PROPERTIES OF COMPOSITES CONSIST OF La-BASED MANGANITES**  
Kılıç Çetin S., Akça G., Aslan M. S., Ekicibil A.  
CUKUROVA 8th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Türkiye, 15 - 17 Nisan 2022, ss.717
- VI. **Structural, Magnetic and Magnetocaloric Properties of PrBa<sub>0.5</sub>Gd<sub>0.5</sub>Mn<sub>2</sub>O<sub>6</sub> Compound**  
Kandemir A., Ayaş A. O., Kılıç Çetin S., Akça G., Akyol M., Ekicibil A.  
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), Ankara, Türkiye, 15 - 17 Aralık 2021, ss.13
- VII. **Magnetic and magnetocaloric properties of Pr<sub>0.55</sub>Ca<sub>0.05</sub>Ba<sub>0.4</sub>Mn<sub>1-x</sub>BixO<sub>3</sub> (x:0, 0.02) manganites**  
Akça G., Kılıç Çetin S., Ekicibil A.  
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), Ankara, Türkiye, 15 - 17 Aralık 2021, ss.96
- VIII. **Structural and Magnetic Properties with Magnetocaloric Effect in Pr(Ba<sub>1-x</sub>Gdx)Mn<sub>2</sub>O<sub>6</sub> (x = 0.6, 0.7, and 1.0) Double Perovskite Manganite System**  
Kandemir A., Kılıç Çetin S., Ayaş A. O., Akça G., Akyol M., Ekicibil A.  
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Türkiye, 25 - 27 Ekim 2021, ss.1
- IX. **Increase in the relative cooling power of xLa<sub>0.67</sub>Ca<sub>0.27</sub>Sr<sub>0.06</sub>MnO<sub>3</sub> / (1-x)La<sub>0.7</sub>Sr<sub>0.3</sub>Mn<sub>0.94</sub>Ni<sub>0.06</sub>O<sub>3</sub> Composites (x = 0.25, 0.50 and 0.75),**  
KILIÇ ÇETİN S., AKÇA G., ASLAN M. S., EKİCİBİL A.  
8th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2021), Elazığ, Türkiye, 14 - 16 Temmuz 2021
- X. **Structural and Magnetic Properties with Magnetocaloric Effect in Pr(Gd<sub>1-x</sub>Bax)Mn<sub>2</sub>O<sub>6</sub> Double Perovskite Manganite System**  
Kandemir A., Kılıç Çetin S., Ayaş A. O., Akça G., Akyol M., Ekicibil A.  
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- XI. **Increase in the relative cooling power of xLa<sub>0.67</sub>Ca<sub>0.27</sub>Sr<sub>0.06</sub>MnO<sub>3</sub> / (1-x)La<sub>0.7</sub>Sr<sub>0.3</sub>Mn<sub>0.94</sub>Ni<sub>0.06</sub>O<sub>3</sub> Composites (x = 0.25, 0.50 and 0.75)**  
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- XII. **Magnetic Multi Phases: Magnetic and Magnetocaloric properties**  
AKÇA G.  
3. International Mediterranean Symposium, Mersin, Türkiye, 30 Ekim - 02 Kasım 2019, ss.310-311
- XIII. **Magnetocaloric properties of xLa<sub>0.7</sub>Ca<sub>0.2</sub>Sr<sub>0.1</sub>MnO<sub>3</sub> / (1-x)La<sub>0.7</sub>Te<sub>0.3</sub>MnO<sub>3</sub> composites**  
AKÇA G., KILIÇ ÇETİN S., EKİCİBİL A.  
6th International conference on materials science and nanotechnology for next generation (MSNG2019), Niğde, Türkiye, 16 - 19 Ekim 2019, ss.69
- XIV. **Magnetocaloric Effect in Er-Substituted (La<sub>1-x</sub>Er<sub>x</sub>)<sub>0.67</sub>Ba<sub>0.33</sub>MnO<sub>3</sub> manganites**  
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6th International conference on materials science and nanotechnology for next generation (MSNG2019), Niğde, Türkiye, 16 - 19 Ekim 2019, ss.80
- XV. **Determination of the Nature of Magnetic Phase Transition in Some Magnetocaloric Manganites Using Different Methods**  
AKÇA G., KILIÇ ÇETİN S., EKİCİBİL A.  
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL, Adana, Türkiye, 14 - 19 Ekim 2019, ss.52
- XVI. **Structural, magnetic and magnetocaloric properties of (La<sub>0.8</sub>Pr<sub>0.2</sub>)<sub>0.85</sub>K<sub>0.15</sub>MnO<sub>3</sub> manganite**

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5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Türkiye, 4 - 06 Ekim 2018

- XVII. **Structural, magnetic and magnetocaloric properties of  $\text{La}_{0.7}\text{Ca}_{0.2}\text{Sr}_{0.1}\text{MnO}_3$  manganite**  
AKÇA G., KILIÇ ÇETİN S., EKİCİBİL A.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018) | 3. Uluslararası Akdeniz Bilim ve Mühendislik Kongresi (IMSEC 2018), Adana, Türkiye, 24 - 26 Ekim 2018, ss.1
- XVIII. **Magnetic and Magnetocaloric Properties of  $\text{La}_{0.7}\text{Ca}_{0.2}\text{Sr}_{0.1}\text{MnO}_3$  Manganite**  
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- XIX. **Magnetic and Magnetocaloric Properties of Er-doped  $(\text{La}_{0.9}\text{Er}_{0.1})_{0.67}\text{Pb}_{0.33}\text{MnO}_3$  Perovskite**  
KILIÇ ÇETİN S., AKÇA G., EKİCİBİL A.  
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- XX. **MAGNETIC AND MAGNETOCALORIC PROPERTIES OF  $\text{La}_{0.7}\text{Te}_{0.3}\text{MnO}_3$  MANGANITE COMPOUND**  
KILIÇ ÇETİN S., AKÇA G., AYAS A. O., AKYOL M., EKİCİBİL A.  
TURKISH PHYSICAL SOCIETY 34TH INTERNATIONAL PHYSICS CONGRESS, SEPTEMBER 5-9, 2018, BODRUM /TURKEY, Muğla, Türkiye, 5 - 09 Eylül 2018, ss.1
- XXI. **Magnetic Properties of Perovskite  $(\text{La}_{0.9}\text{Dy}_{0.1})_{0.85}\text{Ag}_{0.15}\text{MnO}_3$  Compound**  
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Yayın: 79  
Atf (WoS): 99  
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