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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, (La1-xREx)0.85K0.15MnO3 (RE = Pr ve Sm) MANGANİT BİLEŞİKLERİNİN YAPISAL, MANYETİK VE MANYETOKALORİK ÖZELLİKLERİNİN İNCELENMESİ, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Fizik, 2018

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### 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**  
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- 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**  
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- III. **Room-temperature magnetocaloric properties of  $\text{yLa}_{0.67}\text{Ca}_{0.27}\text{Sr}_{0.06}\text{MnO}_3/1-\text{yLa}_{0.7}\text{Sr}_{0.3}\text{Mn}_{0.95}\text{Cu}_{0.05}\text{O}_3$  composites**  
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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 ( $x = 0, 0.01, 0.03, \text{ and } 0.10$ )**  
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- 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**  
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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.  
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- VII. **Magnetic refrigeration: Current progress in magnetocaloric properties of perovskite manganite materials**  
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- 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.  
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- IX. **Large magnetocaloric effect in La-based manganite composites near room temperature**  
Kılıç Çetin S., Akça G., Ekicibil A.  
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- X. **Synthesis and characterization of bifunctional Ru doped La-based perovskites for magnetic refrigeration and energy storage systems**  
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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.  
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- 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.  
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- 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.

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- 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.  
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- 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**  
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- 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**  
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- 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**  
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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**  
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- 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**  
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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**  
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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**  
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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.  
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- 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**  
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- 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.  
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## Kitap & Kitap Bölümleri

- I. **Transport Properties of Superconducting Materials**  
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- 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**  
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- 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.  
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- 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**  
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- 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**  
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- 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.  
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- 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),**  
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- 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**  
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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**  
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- 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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- 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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- XVII. **Structural, 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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- XX. **MAGNETIC AND MAGNETOCALORIC PROPERTIES OF  $\text{La}_{0.7}\text{Te}_{0.3}\text{MnO}_3$  MANGANITE COMPOUND**  
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- 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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- XXV. **The effect of monovalent Ag and K cation on the magnetocaloric properties in  $(\text{La}_{0.9}\text{Pr}_{0.1})_{0.85}\text{A}_{0.15}\text{MnO}_3$  manganites (A= Ag,K)**  
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- XXVIII. **Magnetic and Magnetocaloric Properties of  $(\text{La}_{0.9}\text{Er}_{0.1})_{0.67}\text{Ba}_{0.33}\text{MnO}_3$  Perovskite Manganite**  
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- XXXII. **Magnetic susceptibility of Mn and Gd Co-Substituted ZnO Bulk Compounds**  
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## **Metrikler**

Yayın: 78  
Atf (WoS): 99  
Atf (Scopus): 137  
H-İndeks (WoS): 7  
H-İndeks (Scopus): 9

## **Kongre ve Sempozyum Katılımı Faaliyetleri**

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3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021, Katılımcı, Ankara, Türkiye, 2021  
8th International conference on materials science and nanotechnology for next generation (MSNG2021), Katılımcı, Elazığ, Türkiye, 2021  
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