

## Res. Asst. PhD MUSTAFA AKYOL

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### International Researcher IDs

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### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2011 - 2016

Doctorate, University of California, Los Angeles, Faculty Of Engineering (Dissertation Study), Electrical Engineering, United States Of America 2013 - 2015

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2009 - 2011

Undergraduate, Cukurova University, Fen-Edebiyat Fak., Fizik Bölümü, Turkey 2004 - 2008

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, CURRENT-DRIVEN SPIN-ORBIT-TORQUE PHENOMENA IN PERPENDICULARLY MAGNETIZED HEAVY METAL|FERROMAGNET |INSULATOR MULTILAYER STRUCTURES, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2016

Postgraduate, GEÇİŞ METALİ Dy KATKILI Zn<sub>0.80</sub>-4yDyyO<sub>x</sub> BİLEŞİKLERİNİN YAPISAL VE MANYETİK ÖZELLİKLERİNİN ARAŞTIRILMASI, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2011

### Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Electronic and magnetic devices, microelectronics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Cukurova University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2016 - Continues

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2011 - 2016

Other, University of California, Los Angeles, Faculty Of Engineering , Electrical Engineering, 2013 - 2015

Research Assistant, Van Yüzüncü Yil University, Fen-Edebiyat Fak., Fizik Bölümü, 2011 - 2011

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

- I. **Effect of Ag-doping process into the yttrium iron garnet (Y<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub>) thin films on the structural, magnetic and optical properties**  
Demiryürek N., Akyol M., KARADAĞ F., EKİCİBİL A.  
Journal of Materials Science: Materials in Electronics, vol.35, no.6, 2024 (SCI-Expanded)
- II. **Electronic and magnetic properties of boron substituted CuFeO<sub>2</sub> delafossite oxide**  
Ezircan A., Aslan M. S., Miyazaki H., Akyol M., Ozkendir O. M., EKİCİBİL A., Öztürk H.  
Philosophical Magazine, 2024 (SCI-Expanded)
- III. **Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures**  
Hopoglu H., KAYA D., Maslov M., Kaya S., Demir L., Altuntas I., Urgan F., AKYOL M., EKİCİBİL A., Tüzemen E.  
PHYSICA B-CONDENSED MATTER, vol.661, 2023 (SCI-Expanded)
- IV. **Investigation of the effect of sintering temperature on structural, magnetic and magnetocaloric properties in PrCaMn<sub>2</sub>O<sub>6</sub> double perovskite manganite system**  
AYAŞ A. O., Kandemir A., Cetin S. K., AKÇA G., Akyol M., EKİCİBİL A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.33, no.10, pp.7357-7370, 2022 (SCI-Expanded)
- V. **Strong magnetic coupling in MnO delta nanoparticles by doping Boron**  
Demiryurek N., Kivrak B., Akyol M., EKİCİBİL A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1224, 2021 (SCI-Expanded)
- VI. **Effect of B site partial Ru substitution on structural magnetic and magnetocaloric properties in La<sub>0.7</sub>Pb<sub>0.3</sub>Mn<sub>1-x</sub>Ru<sub>x</sub>O<sub>3</sub> (x=0.0, 0.1 and 0.2) perovskite system**  
Ayas A. O., Cetin S., AKYOL M., AKÇA G., EKİCİBİL A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (SCI-Expanded)
- VII. **Structural, magnetic and optical properties of Au/YIG, YIG/Au and Au/YIG/Au multilayer thin film stacks**  
Akyol M., Demiryurek N., Iloglu O., Tumen K. U., Karadağ F., Ekicibil A.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.493, 2020 (SCI-Expanded)
- VIII. **Structural, electronic and magnetic properties of Mn doped ZnO nanoplates synthesized by electrodeposition method**  
KICIR N., TÜKEN T., AKYOL M., EKİCİBİL A., UFUKTEPE Y.  
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.237, 2019 (SCI-Expanded)
- IX. **Effect of boron content on structure and magnetic properties in CoFe<sub>2</sub>O<sub>4</sub> spinel nanocrystals**  
Akyol M., Adanur I., Ayas A. O., KARADAĞ F., EKİCİBİL A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.744, pp.528-534, 2018 (SCI-Expanded)
- X. **Effect of reducing agent and surfactant on the morphology, structural and magnetic properties of Ni magnetic nanoparticles**  
Adanur I., Akyol M., EKİCİBİL A.  
PHILOSOPHICAL MAGAZINE LETTERS, vol.98, no.8, pp.319-329, 2018 (SCI-Expanded)
- XI. **Structural, optical and magnetic properties of CdZnS and Ni:CdZnS nanoparticles**  
HOROZ S., AKYOL M., EKİCİBİL A., ŞAHİN Ö.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.23, pp.18193-18199, 2017 (SCI-Expanded)
- XII. **Magnetic field dependence of magnetic coupling in CoCr<sub>2</sub>O<sub>4</sub> nanoparticles**  
AKYOL M., Adanur I., Ayas A. O., EKİCİBİL A.  
PHYSICA B-CONDENSED MATTER, vol.525, pp.144-148, 2017 (SCI-Expanded)
- XIII. **Effect of Monovalent Cation Doping on Structural, Magnetic, and Magnetocaloric Properties of Pr<sub>0.85</sub>A<sub>0.15</sub>MnO<sub>3</sub> (A = Ag and K) Manganites**  
AKÇA G., Ayas A. O., Cetin S. K., AKYOL M., EKİCİBİL A.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.6, pp.1515-1525, 2017 (SCI-Expanded)

- XIV. **Thermally activated flux mechanism in Mg-doped InN epitaxial film**  
Güneş M., AKYOL M., EKİCİBİL A., Tiras E.  
PHILOSOPHICAL MAGAZINE, vol.97, no.28, pp.2564-2574, 2017 (SCI-Expanded)
- XV. **Room temperature magnetocaloric effect in Pr<sub>1.75</sub>Sr<sub>1.25</sub>Mn<sub>2</sub>O<sub>7</sub> double-layered perovskite manganite system**  
Ayas A. O., AKYOL M., Cetin S., Kaya M., Dincer I., EKİCİBİL A., Elerman Y.  
PHILOSOPHICAL MAGAZINE, vol.97, no.9, pp.671-682, 2017 (SCI-Expanded)
- XVI. **Effect of Monovalent Cation Doping on Structural, Magnetic, and Magnetocaloric Properties of Pr<sub>0.85</sub>A<sub>0.15</sub>MnO<sub>3</sub> (A = Ag and K) Manganites**  
AKÇA G., Ayas A. O., KILIÇ ÇETİN S., AKYOL M., EKİCİBİL A.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.1, pp.1-11, 2016 (SCI-Expanded)
- XVII. **Effect of heavy metal layer thickness on spin-orbit torque and current-induced switching in Hf broken vertical bar CoFeB broken vertical bar MgO structures**  
Akyol M., Jiang W., Yu G., Fan Y., Güneş M., EKİCİBİL A., Amiri P. K., Wang K. L.  
APPLIED PHYSICS LETTERS, vol.109, no.2, 2016 (SCI-Expanded)
- XVIII. **Competing effect of spin-orbit torque terms on perpendicular magnetization switching in structures with multiple inversion asymmetries**  
Yu G., Akyol M., Upadhyaya P., Li X., He C., Fan Y., MONTAZERI M., Alzate J. G., LANG M., Wong K. L., et al.  
SCIENTIFIC REPORTS, vol.6, 2016 (SCI-Expanded)
- XIX. **Structural and magnetic properties with large reversible magnetocaloric effect in (La<sub>1-x</sub>Pr<sub>x</sub>) (0.85)Ag<sub>0.15</sub>MnO<sub>3</sub> (0.0 ≤ x ≤ 0.5) compounds**  
Ayas A. O., AKYOL M., EKİCİBİL A.  
PHILOSOPHICAL MAGAZINE, vol.96, no.10, pp.922-937, 2016 (SCI-Expanded)
- XX. **Electric-field control of spin-orbit torque in a magnetically doped topological insulator**  
Fan Y., KOU X., Upadhyaya P., Shao Q., PAN L., LANG M., CHE X., TANG J., MONTAZERI M., MURATA K., et al.  
NATURE NANOTECHNOLOGY, vol.11, no.4, pp.352-359, 2016 (SCI-Expanded)
- XXI. **Microstructural and magnetic properties of A(x):Zn<sub>1-x</sub>O (A=Mn, Gd and Mn/Gd) nanocrystals**  
AKYOL M., Cetin S., EKİCİBİL A.  
PHILOSOPHICAL MAGAZINE, vol.96, no.1, pp.31-44, 2016 (SCI-Expanded)
- XXII. **Electric-Field-Controlled Magnetoelectric RAM: Progress, Challenges, and Scaling**  
Amiri P. K., Alzate J. G., Cai X. Q., Ebrahimi F., Hu Q., Wong K., Grezes C., Lee H., Yu G., Li X., et al.  
IEEE TRANSACTIONS ON MAGNETICS, vol.51, no.11, 2015 (SCI-Expanded)
- XXIII. **Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo vertical bar CoFeB vertical bar MgO structures**  
Li X., Yu G., Wu H., Ong P. V., Wong K., Hu Q., Ebrahimi F., Upadhyaya P., Akyol M., Kioussis N., et al.  
APPLIED PHYSICS LETTERS, vol.107, no.14, 2015 (SCI-Expanded)
- XXIV. **Effect of Ca doping on thermally activated flux flow in the Y<sub>3</sub>Ba<sub>5</sub>Cu<sub>8</sub>O<sub>18</sub> superconductor**  
AKYOL M., Ayas A. O., AKÇA G., Cetin S., EKİCİBİL A.  
BULLETIN OF MATERIALS SCIENCE, vol.38, no.5, pp.1231-1237, 2015 (SCI-Expanded)
- XXV. **AC-magnetic susceptibility of Dy doped ZnO compounds**  
AKYOL M., EKİCİBİL A., Kiyimac K.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.385, pp.65-69, 2015 (SCI-Expanded)
- XXVI. **Magnetocaloric Properties of La<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> and (La<sub>0.80</sub>Pr<sub>0.20</sub>)(0.85)Ag<sub>0.15</sub>MnO<sub>3</sub> Compounds**  
Ayas A. O., AKYOL M., CETIN S., AKÇA G., EKİCİBİL A., ÖZÇELİK B.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.6, pp.1649-1658, 2015 (SCI-Expanded)
- XXVII. **Current-induced spin-orbit torque switching of perpendicularly magnetized Hf vertical bar CoFeB vertical bar MgO and Hf vertical bar CoFeB vertical bar TaOx structures**  
Akyol M., Yu G., Alzate J. G., Upadhyaya P., Li X., Wong K. L., EKİCİBİL A., Amiri P. K., Wang K. L.  
APPLIED PHYSICS LETTERS, vol.106, no.16, 2015 (SCI-Expanded)
- XXVIII. **Effect of the oxide layer on current-induced spin-orbit torques in Hf vertical bar CoFeB vertical bar MgO and Hf vertical bar CoFeB vertical bar TaOx structures**

- Akyol M., Alzate J. G., Yu G., Upadhyaya P., Wong K. L., EKİCİBİL A., Amiri P. K., Wang K. L.  
APPLIED PHYSICS LETTERS, vol.106, no.3, 2015 (SCI-Expanded)
- XXIX. **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.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.27, no.11, pp.2631-2637, 2014 (SCI-Expanded)
- XXX. **Current-driven perpendicular magnetization switching in Ta/CoFeB/[TaOx or MgO/TaOx] films with lateral structural asymmetry**  
Yu G., Chang L., Akyol M., Upadhyaya P., He C., Li X., Wong K. L., Amiri P. K., Wang K. L.  
APPLIED PHYSICS LETTERS, vol.105, no.10, 2014 (SCI-Expanded)
- XXXI. **Effect of Tungsten (W) Substitution on the Physical Properties of Bi-(2223) Superconductors**  
Turk N., Gundogmus H., AKYOL M., Yakinci Z. D., EKİCİBİL A., ÖZÇELİK B.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.27, no.3, pp.711-716, 2014 (SCI-Expanded)
- XXXII. **DC Magnetic Properties of the Ho doped ZnO Compounds**  
AKYOL M., EKİCİBİL A., Kiyamac K.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.11, pp.3257-3262, 2013 (SCI-Expanded)
- XXXIII. **The Structural and Magnetic Properties of Zn<sub>0.8-4x</sub>Dy<sub>x</sub>O<sub>y</sub> (0.05 ≤ x ≤ 0.10) Compounds Prepared by Solid-State Reactions**  
AKYOL M., EKİCİBİL A., Firat T., Kiyamac K.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.7, pp.2439-2445, 2013 (SCI-Expanded)
- XXXIV. **The effects of choice feeding and season on the feeding behaviour and growth performance of calves**  
Gorgulu M., AKYOL M., Boga M., Goncu S.  
JOURNAL OF ANIMAL AND FEED SCIENCES, vol.21, no.2, pp.263-275, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of Eu Doping on the Structural, Magnetic and Magnetocaloric Properties in La<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub>**  
AKYOL M.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.33, no.1, pp.143-150, 2018 (Peer-Reviewed Journal)
- II. **GEÇİŞ METALİ Dy KATKILI Zn<sub>0.80-4y</sub>Dy<sub>y</sub>O<sub>x</sub> BİLEŞİKLERİNİN YAPISAL VE MANYETİK ÖZELLİKLERİNİN ARAŞTIRILMASI**  
AKYOL M., EKİCİBİL A., Kiyamac K.  
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.26, pp.173-182, 2011 (Peer-Reviewed Journal)
- III. **eçiş Metali Dy Katkılı Zn<sub>0.80-4y</sub>Dy<sub>y</sub>O<sub>x</sub> Bileşiklerinin Yapısal ve Manyetik Özelliklerinin Araştırılması**  
AKYOL M., EKİCİBİL A., KIYMAÇ K.  
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi, 2011 (Peer-Reviewed Journal)
- IV. **Kızılyüksek Krom Yatağı?na (Aladağ) Ait Rezerv ve İşletme Yönteminin Belirlenmesi**  
AKYOL M., KILIÇ A. M.  
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi, vol.22, no.1, pp.148-158, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Transport Properties of Superconducting Materials**  
EKİCİBİL A., KARADAĞ F., KILIÇ ÇETİN S., AYAS A. O., AKÇA G., AKYOL M., KAYA D.  
in: Superconducting Materials, Slimani Yassine, Hannachi Essia, Editor, Springer, Singapore, pp.29-60, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Magnetic Properties of NiGe/Au/C60 Thin Films at 5 K**  
KAYA D., AKYOL M., WANG Y., GUO Q., KARADAĞ F., EKİCİBİL A.  
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 October 2019
- II. **Synthesizing and Characterization of MnO Nanoparticles (NPs)**  
Demiyürek N., Adanur İ., AKYOL M., EKİCİBİL A.  
5th International conference on materials science and nanotechnology for next generation(MSNG2018), 4 - 06 October 2018
- III. **Spin-Orbit Torque Driven Magnetization Switching in Metal-based Multilayer Structures**  
AKYOL M.  
Science and Applications of Thin Films, Conference Exhibition (SATF 2018), 17 - 21 September 2018
- IV. **Spin-Orbit Torques in Metal Layers**  
AKYOL M.  
5th International conference on materials science and nanotechnology for next generation(MSNG2018), 4 - 06 October 2018
- V. **Effect of Deposition Pressure and Power on the Perpendicular Magnetic Anisotropy in Hf/CoFeB/MgO Multilayer Structure**  
AKYOL M., EKİCİBİL A.  
Science and Applications of Thin Films, Conference Exhibition (SATF 2018), 17 - 21 September 2018
- VI. **YIG Film Grown on Quartz by Spin-Coating**  
EKİCİBİL A., DEMİYÜREK N., Adanur İ., KARADAĞ F., AKYOL M.  
Science and Applications of Thin Films, Conference Exhibition (SATF 2018), 17 - 21 September 2018
- VII. **Magnetic Properties of Perovskite (La<sub>0.9</sub>Dy<sub>0.1</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Compound**  
Ayaş A. O., Akyol M., Kılıç Çetin S., Akça G., Ekicibil A.  
5.th International Conference on Materials Science and Nanotechnology for Next Generation, Nevşehir, Turkey, 4 - 06 June 2018
- VIII. **Structural Investigation of (La<sub>0.8</sub>Gd<sub>0.2</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Compound**  
AYAS A. O., AKYOL M., EKİCİBİL A.  
8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 22 October 2017, pp.1
- IX. **Synthesizing and Characterization of Ni<sub>1-x</sub>B<sub>x</sub>/NiO<sub>y</sub> (x=0.0 and 0.05) Core/Shell Magnetic Nanoparticles (MNPs)**  
AKYOL M., Adanur İ., EKİCİBİL A.  
International Conference on Condensed Matter and Materials science, 11 - 15 October 2017
- X. **Magnetic and Magnetocaloric Properties of (La<sub>0.8</sub>Gd<sub>0.2</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Compound**  
AYAS A. O., AKYOL M., EKİCİBİL A.  
International Conference on Condensed Matter and Material Sciences, Adana, Turkey, 11 - 15 October 2017, pp.1
- XI. **Structural, Optical and Magnetic Properties of Co (5): CdZnS Nanoparticles**  
HOROZ S., AKYOL M., EKİCİBİL A., ŞAHİN Ö.  
4th International Conference On Materials Science and Nanotechnology For Next Generation, 28 - 30 June 2017
- XII. **Non-volatile Spintronics: Current-Induced Spin-Orbit Torque Phenomena**  
AKYOL M.  
4th International Conference On Materials Science and Nanotechnology For Next Generation, 28 - 30 June 2017
- XIII. **Effect of Boron on Structural and Magnetic Properties in Co(Cr<sub>1-x</sub>B<sub>x</sub>)<sub>2</sub>O<sub>4</sub> (x=0.0, 0.1) Multiferroic Spinel Nanoparticles**  
Adanur İ., AKYOL M., EKİCİBİL A.  
4th International Conference On Materials Science and Nanotechnology For Next Generation, 28 - 30 June 2017
- XIV. **Influence of La Substitution on Structural, Magnetic and Magnetocaloric Properties in (La<sub>0.3</sub>Pr<sub>0.7</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Manganite Sample**  
AYAS A. O., AKYOL M., EKİCİBİL A.  
4th International Conference On Materials Science and Nanotechnology for Next Generation (Msnng2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.1

- XV. **Pr<sub>1.75</sub>Sr<sub>1.25</sub>Mn<sub>2</sub>O<sub>7</sub> Double-Layered Perovskite Manganite System: Structural, Magnetic and Magnetocaloric Properties**  
 AYAS A. O., AKYOL M., CETIN S. K., KAYA M., DINÇER İ., EKİCİBİL A., ELERMAN Y.  
 4th International Conference On Materials Science and Nanotechnology for Next Generation (Msg2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.1
- XVI. **Determination of potential use of Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>:Ag,Tb for dosimetry purposes using OSL technique**  
 Özdemir A., Güçkan V., Altunal V., Depçi T., NUR N., KURT K., AKYOL M., TUKEN T., Hereytani E. B., İflazoğlu S., et al.  
 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017, pp.154
- XVII. **Structural Properties of (La<sub>0.9</sub>Gd<sub>0.1</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Manganite Compound**  
 AYAS A. O., AKYOL M., EKİCİBİL A.  
 2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, Antalya, Turkey, 18 - 21 April 2017, pp.1
- XVIII. **Study of Exchange Bias Effect in CoCr<sub>2</sub>O<sub>4</sub> Multiferroic Spinel Nanoparticles**  
 AKYOL M., Adanur İ., AYAS A. O., EKİCİBİL A.  
 2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, Antalya, Turkey, 18 - 21 April 2017, pp.1
- XIX. **Effect of Partial Gd Substitution on Structural, Magnetic and Magnetocaloric Properties in (La<sub>0.7</sub>Gd<sub>0.3</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Manganite Compound**  
 AYAS A. O., AKYOL M., EKİCİBİL A.  
 2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, Antalya, Turkey, 18 - 21 April 2017, pp.1
- XX. **Effect of Boron Doping on the Structure and Magnetic Property of Co(Fe<sub>1-x</sub>B<sub>x</sub>)<sub>2</sub>O<sub>4</sub> (x=0.0 and 0.15) Multiferroic Spinel Nanoparticles**  
 AKYOL M., Adanur İ., KARADAĞ F., EKİCİBİL A.  
 2nd International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, Antalya, Turkey, 18 - 21 April 2017, pp.1
- XXI. **Magnetic Cooling Technology and Magnetic Cooling Performance of (La<sub>1-x</sub>Pr<sub>x</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> (x = 0.8, 0.9 and 1.0) Materials**  
 Ayaş A. O., AKYOL M., EKİCİBİL A.  
 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1
- XXII. **The Effect of Sintering Temperature on Magnetic and Luminescence Characteristics of Beryllium Oxide**  
 Altunal V., AKYOL M., Özdemir A., Güçkan V., EKİCİBİL A., YEĞİNGİL Z.  
 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1
- XXIII. **The effect of monovalent Ag and K cation on the magnetocaloric properties in (La<sub>0.9</sub>Pr<sub>0.1</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> manganites (A= Ag,K)**  
 AKÇA G., Ayas A. O., KILIÇ ÇETİN S., AKYOL M., EKİCİBİL A.  
 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1
- XXIV. **Transmission Electron Microscope (TEM) Study of Hf|CoFeB|MgO Multilayer Structure**  
 AKYOL M., EKİCİBİL A.  
 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1
- XXV. **Synthesizing of Multiferroic Spinel CoFe<sub>2</sub>O<sub>4</sub> Nanoparticle**  
 Adanur İ., AKYOL M., KARADAĞ F., EKİCİBİL A.  
 1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.1
- XXVI. **Surface Roughness Dependence of Perpendicular Magnetic Anisotropy**  
 AKYOL M., EKİCİBİL A.  
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- XXVII. **Current-induced spin-orbit torques in TaO<sub>x</sub> and MgO capped structures**  
 AKYOL M., Amiri P. K., EKİCİBİL A., Wang K. L.

- 3th International Nanoscience and Nanotechnology for Next Generation (NaNNG) 2016, Antalya, Turkey, 20 - 22 October 2016, pp.99
- XXVIII. **Multiferroic Spinel CoA<sub>2</sub>O<sub>4</sub> (A:Cr, Fe) Nanoparticles: Structural and Magnetic Properties**  
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- XXIX. **The Effect of Sintering Temperature on Magnetic and Luminescence Characteristics of Beryllium Oxide**  
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- XXX. **Defect-Mediated Ferromagnetism in Mn/Gd doped ZnO Nanocrystals**  
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- XXXI. **Defect-Mediated Ferromagnetism in Mn/Gd doped ZnO Nanocrystals**  
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- XXXII. **Determination of longitudinal optical phonon energy of GaAs<sub>1-x</sub>Bix quantum wells (QWs) grown on various orientations by MBE**  
 AKYOL M., Pesen E., Güneş M.  
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- XXXIV. **Magnetic Properties and Magnetocaloric Effect in (La<sub>1-x</sub>Pr<sub>x</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> (0.0, 0.1, 0.3, 0.5, 1.0) Perovskites**  
 Ayaş A. O., AKYOL M., EKİCİBİL A.  
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- XXXV. **Magnetic susceptibility of Mn and Gd Co-Substituted ZnO Bulk Compounds**  
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- XXXVI. **Current Induced Perpendicular Magnetization Switching by Spin Orbit Torque in Structure Inversion Asymmetry**  
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- XXXVII. **Current Induced Perpendicular Magnetization Switching by Spin Orbit Torque in Structure Inversion Asymmetry**  
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 12th International NanoScience and NanoTechnology Conference, 3 - 05 June 2016
- XXXVIII. **Structural, magnetic and magnetocaloric properties of (La<sub>1-x</sub>Pr<sub>x</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> (0.0, 0.2, 0.4, 0.6, 0.8 1.0) manganites**  
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- XXXIX. **Fundamentals of Spintronics in Metal-Based Systems**  
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 Adanur İ., AKYOL M., EKİCİBİL A.  
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- XXI. Film Yüzeyine Dik Oluşan Manyetik Anizotropinin CoFeB Tabaka Kalınlığına Bağlılığı**  
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- XXII. La ile Pr Yer Değiştirmesinin La<sub>1-x</sub>Pr<sub>x</sub>0.85Ag<sub>0.15</sub>MnO<sub>3</sub> (x = 0, 0.1 ve 0.2) Perovskit Manganitlerinin Yapısal Manyetik ve Manyetokalorik Özellikleri Üzerine Etkisi**  
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- XXV. The Structural and Magnetic Properties of Zn<sub>0.8-4x</sub>HoxOy Compounds Prepared by Solid State Reactions**  
 Akyol M., Ekicibil A.  
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- XXVI. VOLTAGE CONTROL OF MAGNETIZATION IN FEPD NANOCRYSTALS FOR THE NEXT GENERATION OF MAGNETOELECTRIC MEMORY IN TANMS**  
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- XXIX. Current-Driven Magnetization Switching via Spin-Orbit Torque in Perpendicularly Magnetized Hf/CoFeB/(MgO or TaOx) Films with Structural Asymmetry**  
 AKYOL M., Yu G., Alzate J. G., Upadhyaya P., Li X., Wong K. L., EKİCİBİL A., Amiri P. K., Wang K. L.  
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- L. Investigation of structural, magnetic and magnetocaloric properties of (La<sub>1-x</sub>Pr<sub>x</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> (x = 0.0, 0.2)**  
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- LII. The structural, magnetic and magnetocaloric properties of Pr<sub>0.85</sub>A<sub>0.15</sub>MnO<sub>3</sub> (A = K and Ag) manganites?**  
 Akça G., Ayaş A. O., Kılıç S., Akyol M., Ekicibil A.  
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- LIII. The structural, magnetic and magnetocaloric properties of Pr<sub>0.85</sub>A<sub>0.15</sub>MnO<sub>3</sub> (A = K and Ag) manganites**  
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- LIV. **Investigation of structural properties and magnetocaloric effect of Pr<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> Perovskite Compound**  
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- LV. **Spin-Orbitronics: Current-Induced Magnetization Switching by Spin-Orbit Torque**  
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- LXI. **Spin-orbit torque-driven perpendicular magnetization switching in systems with structural asymmetry**  
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- LXII. **Effect of seed layer thickness on the perpendicular magnetic anisotropy and spin-orbit-torque driven switching in Hf/CoFeB/MgO structure**  
AKYOL M., Yu G., Jiang W., Alzate J. G., Amiri P. K., EKİCİBİL A., Wang K. L.  
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- LXIII. **Temperature and field dependence of thermally activated flux flow resistance in the Y<sub>3</sub>Ba<sub>5</sub>Cu<sub>8</sub>O<sub>18</sub> and Y<sub>3</sub>Ba<sub>5</sub>Ca<sub>2</sub>Cu<sub>8</sub>O<sub>18</sub> Superconductors**  
Ayaş A. O., AKYOL M., Cetin S. K., Akça G., EKİCİBİL A., Kiyamac K., KILIÇ S.  
7th Asian Conference on Applied Superconductivity and Cryogenics, Nevşehir, Turkey, 23 October 2013, vol.1, no.2, pp.1
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- LXV. **Exploration of Thermally Activated Flux Flow in the Y<sub>3</sub>Ba<sub>5</sub>Cu<sub>8</sub>O<sub>18</sub> and Y<sub>3</sub>Ba<sub>5</sub>Ca<sub>2</sub>Cu<sub>8</sub>O<sub>18</sub> Superconductors**

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- LXVII. **AC-Susceptibility Measurements in Zn0.80-4xDyxOy Samples**  
EKİCİBİL A., AKYOL M., Kıymac K.  
International Conference on Superconductivity and Magnetism-ICSM 2012, İstanbul, Turkey, 29 April - 04 May 2012, vol.1, no.2, pp.1
- LXVIII. **AC Susceptibility Measurements in Zn0.80-4yDyyOx Samples**  
AKYOL M., EKİCİBİL A., Kıymac K.  
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- LXIX. **Use of Some Microorganisms as Bio-Fertilizers in Soilless Grown Squash for Saving Chemical Nutrients**  
DAŞGAN H. Y., Aydoner G., AKYOL M.  
28th International Horticultural Congress on Science and Horticulture for People (IHC) / International Symposium on Greenhouse and Soilless Cultivation / International Symposium on Advances in Ornamentals, Landscape and Urban Horticulture, Lisbon, Portugal, 22 - 27 August 2010, vol.927, pp.155-162
- LXX. **Magnetism in Zn0.80-4yDyyOx (0.05?y?0.10) Samples Prepared By Solid State Reactions**  
AKYOL M., EKİCİBİL A., Kıymac K.  
2nd International Workshop on Condensed Matter and Material Physics, Antalya, Turkey, 27 - 31 December 2011, pp.1
- LXXI. **Structural And Magnetic Properties of Zn0.80-4yDyyOx (0.05?y?0.10) Bulk Samples Prepared By Solid State Reactions**  
AKYOL M., EKİCİBİL A., Kıymac K., KILIÇ S.  
Turkish Physical Society, 28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.1
- LXXII. **Structural And Magnetic Properties of Zn0.80-4yDyyOx (0.05 ? y ? 0.10) Bulk Samples Prepared By Solid State Reactions**  
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## 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., Karakılçık 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
- III. **Genel Fizik III Laboratuvarı Deney Föyü**  
UFUKTEPE Y., KARAKILÇIK M., AKYOL M., AKÇA G., AKÇA S.  
Experiment, pp.1, 2015
- IV. **Temel Elektronik Laboratuvarı Deneyleri Föyü**  
Karakılçık M., KILIÇ S., AKYOL M., Baz Z.  
Experiment, pp.1, 2010

## Supported Projects

AKYOL M., Project Supported by Other Official Institutions, Nadir toprak elementi katkılı La tabanlı (La<sub>1-x</sub>RE<sub>x</sub>)<sub>0.85</sub>Ag<sub>0.15</sub>MnO<sub>3</sub> (0.0 ≤ x ≤ 0.3) Manganit Bileşiklerin Manyetik ve Manyetokalorik Özelliklerinin Belirlenmesi, 2014 - Continues

KARADAĞ F., Adanur İ., EKİCİBİL A., AYAŞ A. O., AKYOL M., Project Supported by Higher Education Institutions, Co<sub>1-x</sub>B<sub>x</sub>/CoO<sub>y</sub> (x=0, 0.1, 0.2, 0.5, 0.7, 1.0) çekirdek/kabuk manyetik nanoparçacıkların (MNP) fiziksel özelliklerinin araştırılması, 2017 - 2019

EKİCİBİL A., KILIÇ S., AKÇA G., AYAŞ A. O., AKYOL M., KARADAĞ F., Project Supported by Higher Education Institutions, A bölgesine Tellür Te katkılı ve B bölgesine Rutenyum Ru katkılı manganit bileşiklerin yapısal manyetik ve manyetokalorik özelliklerinin incelenmesi, 2015 - 2019

AKYOL M., Project Supported by Higher Education Institutions, Non-volatile Spintronics: Current-Induced Spin-Orbit Torque Phenomena, 2017 - 2017

KARADAĞ F., EKİCİBİL A., AKYOL M., Adanur İ., Project Supported by Higher Education Institutions, Bor katkılı Co(Fe<sub>1-x</sub>B<sub>x</sub>)<sub>2</sub>O<sub>4</sub> multiferroic spinellerin yapısal elektriksel ve manyetik özelliklerinin araştırılması, 2016 - 2017

YEĞİNGİL Z., Güçkan V., Özdemir A., Altunal V., EKİCİBİL A., AKYOL M., Project Supported by Higher Education Institutions, BeO seramik pellet malzemesinin OSL dozimetrik karakteristiklerinin ve fiziksel özelliklerinin çalışılması, 2016 - 2017

EKİCİBİL A., AKYOL M., KARADAĞ F., Project Supported by Higher Education Institutions, Demir Tabanlı A<sub>16</sub>Fe<sub>4</sub>Se<sub>5</sub> A=K, Cs Süperiletkenlerin Fiziksel Özellikleri, 2015 - 2017

EKİCİBİL A., AKYOL M., Project Supported by Higher Education Institutions, MgO Bariyerli Çoklu Katman Nano-filmleri Spintronik Özelliklerinin Araştırılması, 2013 - 2016

AKYOL M., Other International Funding Programs, Nanosystems Engineering Research Center for Translational Applications of Nanoscale Multiferroic Systems, 2012 - 2015

AKYOL M., Other International Funding Programs, The Center for Function Accelerated nanoMaterial Engineering (FAME), 2011 - 2015

## Activities in Scientific Journals

Applied Physics Letters, Evaluation Committee Member, 2016 - Continues

Materials Science and Semiconductor Processing, Evaluation Committee Member, 2015 - 2015

Journal of Magnetism and Magnetic Materials, Evaluation Committee Member, 2015 - 2015

## Metrics

Publication: 115

Citation (WoS): 527

Citation (Scopus): 561

H-Index (WoS): 11

H-Index (Scopus): 13

## Congress and Symposium Activities

4th YUKPOP Vacuum Workshop, Attendee, Afyon, Turkey, 2016

20th International Conference on Magnetism, Attendee, BARCELONA, Spain, 2015

9th International Conference on Magnetic and Superconducting Materials (MSM15), Invited Speaker, Antalya, Turkey, 2015

9th International Conference on Magnetic and Superconducting Materials (MSM15), Attendee, ANTALYA, Turkey, 2015

59th Annual Magnetism & Magnetic Materials Conference, Attendee, Honolulu, 2014  
Science & Applications of Thin Films, Conference & Exhibition, Attendee, İzmir, Turkey, 2014  
Annual Review of Center on Functional Engineered Nano Architectonics, Attendee, Los Angeles, United States Of America, 2014  
Annual Review of Electrical Engineering, University of California, Attendee, Los Angeles, United States Of America, 2013  
Joint European Magnetic Symposia, Attendee, Rhodes, Greece, 2013  
Advanced School on Synchrotron Techniques in Environmental Scientific Projects, Attendee, Trieste, Italy, 2013  
3rd International Conference on Superconductivity and Magnetism, Attendee, İstanbul, Turkey, 2012  
3rd Spring School and Educational Courses, SSEC-2012 on Superconductivity and Magnetism, Attendee, İstanbul, Turkey, 2012  
Uygulamalı Fizik Çalıştayı, Attendee, Adana, Turkey, 2012  
2nd International Student Workshop on Condensed Matter and Material Physics, Attendee, Antalya, Turkey, 2011  
Workshop on Physics and Chemistry of Solids: Theory and Experiment, Attendee, Ankara-Bilkent University, Turkey, 2011  
28th International Physics Congress, Attendee, Muğla-Bodrum, Turkey, 2011

## Scholarships

Fellowship, University, 2014 - Continues  
Yurt Dışı Doktora Araştırma Bursu, TÜBİTAK, 2013 - Continues

## Awards

AKYOL M., Bilimsel Yayın Başarı Ödülü, TÜBİTAK, May 2016  
AKYOL M., 2015 Yılı Bilimsel Aktivite "Altın" Ödülü, Çukurova Üniversitesi Fen-Edebiyat Fakültesi, May 2016  
AKYOL M., 2014 Yılı Bilimsel Aktivite "Altın" Ödülü, Çukurova Üniversitesi Fen-Edebiyat Fakültesi Dekanlığı, June 2015  
AKYOL M., Selected Advanced Student for Advanced School on Synchrotron Techniques in Environmental Scientific Projects, The Abdus Salam International Centre for Theoretical Physics (ICTP), April 2013  
AKYOL M., Selected Advanced Student for Workshop on Physics and Chemistry of Solids: Theory and Experiment, Institute of Theoretical and Applied Physics, November 2011  
AKYOL M., Bölüm Birinciliği Ödülü, Çukurova Üniversitesi, June 2004