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## Education Information

Doctorate, Anadolu University, Institute Of Science, Fizik, Turkey 2005 - 2011

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2003 - 2005

Undergraduate, Inonu University, Fen Edebiyat Fakültesi, Fizik, Turkey 1999 - 2003

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Natural Sciences

## Academic Titles / Tasks

Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2023 - Continues

Associate Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2022 - 2023

Associate Professor, Inonu University, Rektörlük, Fizik, 2017 - 2022

Research Assistant, Anadolu University, Faculty Of Science, Fizik, 2005 - 2009

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

- I. **Production of V-Doped P2-type Na<sub>0.67</sub>Mn<sub>0.5</sub>Fe<sub>0.43</sub>Al<sub>0.07</sub>O<sub>2</sub> Cathodes and Investigation of Na-Ion Full Cells Performance**  
Altın S., Doğan E., Altundağ S., Altın E.  
ENERGY TECHNOLOGY, no.1, pp.1-14, 2023 (SCI-Expanded)
- II. **High-Performance Ag-Doped Na<sub>0.67</sub>MnO<sub>2</sub> Cathode: Operando XRD Study and Full-Cell Performance Analysis with Presodiated Anode**  
Altın S., Özgül M., Altundağ S., Altın E.  
ACS APPLIED ENERGY MATERIALS, vol.1, no.1, pp.1-12, 2023 (SCI-Expanded)
- III. **Production of Pb-doped LiFePO<sub>4</sub> and analysis of their electrochemical performance**  
Gültek E., Altundağ S., Altın S., Altın E.

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, pp.1803, 2023 (SCI-Expanded)

- IV. **Investigation of electrochemical performance of Na-ion batteries by hard carbon anodes produced by biomass of Prunus armeniaca seeds**  
Oktay Z. M., Onal Y., Depci T., Altundag S., Altin S., Yaşar S., Altin E.  
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- V. **Improved performance of the NaFePO<sub>4</sub>/Hardcarbon sodium-ion full cell**  
Altundag S., Altin S., yaşar s., Altin E.  
VACUUM, vol.210, pp.111853, 2023 (SCI-Expanded)
- VI. **Elucidating the optimized P2 type Na<sub>0.67</sub>Mn<sub>1-x</sub>Cu<sub>x</sub>O<sub>2</sub> cathode active material via operando XAS**  
Altin S., Altundağ S., Altin E., Vanpaucke D., Avci S., Ateş M. N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.936, pp.1-9, 2023 (SCI-Expanded)
- VII. **High-performance electrodes for Li-ion cell: Heteroatom-doped porous carbon/CoS structure and investigation of their structural and electrochemical properties**  
Bugday N., ALTIN E., ALTIN S., YAŞAR S.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.13, pp.18379-18393, 2022 (SCI-Expanded)
- VIII. **Production of Eu-doped LiFePO<sub>4</sub> by glass-ceramic technique and investigation of their thermal, structural, electrochemical performances**  
ALTIN S., Coban M., ALTUNDAĞ S., ALTIN E.  
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- IX. **Boron-doped porous carbon material derived from ZIF-11: Investigation of cotton fabric supercapacitor and Li-ion battery performances**  
Bugday N., ALTIN S., BULUT F., ALTIN E., YAŞAR S.  
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- X. **Investigation of structural and electrochemical performance of Ru-substituted LiFePO<sub>4</sub> cathode material: an improvement of the capacity and rate performance**  
Yolun A., ALTIN E., Altundag S., Arshad M., Abbas S. M., ALTIN S.  
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- XI. **Li<sub>1+x</sub>FePO<sub>4</sub> (x = 0 - 0.5) production from Fe<sup>3+</sup> sources by glass-ceramic technique with different carbon sources and investigation of structural, thermal and electrochemical performance**  
Altin E., Altundağ S., Gültek E., Altin S.  
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- XII. **Improved battery performance of silicon modified Na<sub>0.67</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>2</sub> and its structural and electrochemical properties: An investigation of infrared thermal imaging**  
ALTIN S., Altundag E., ALTIN E., Altundag S.  
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- XIII. **Magnetic Properties and Environmental Temperature Effects on Battery Performance of Na<sub>0.67</sub>Mn<sub>0.5</sub>Fe<sub>0.5</sub>O<sub>2</sub>**  
ALTIN S., BAYRİ A., ALTIN E., Oz E., YAŞAR S., Altundag S., Harfouche M., AVCI S.  
ENERGY TECHNOLOGY, vol.9, no.5, 2021 (SCI-Expanded)
- XIV. **Investigation of Ti-substitution effects on structural and electrochemical properties of Na<sub>0.67</sub>Mn<sub>0.5</sub>Fe<sub>0.5</sub>O<sub>2</sub> battery cells**  
ALTIN S., Altundag S., ALTIN E., Oz E., Harfouche M., BAYRİ A.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.14, pp.11794-11806, 2020 (SCI-Expanded)
- XV. **LiNi<sub>0.8</sub>Co<sub>0.15</sub>Ti<sub>0.05</sub>O<sub>2</sub>: synthesis by solid state reaction and investigation of structural and electrochemical properties with enhanced battery performance**  
Bayri A., Gocer E., Altin E., Altundag S., Oz E., Harfouche M., Altin S., Avci S.  
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- XVI. **An investigation of the improvement in energy storage performance of**

**Na(2/3)Mn(1/2)Fe(1/2)O(2) by systematic Al-substitution**

Altin S., Altundag S., Altin E., Harfouche M., Bayri A.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.17, pp.14784-14794, 2020 (SCI-Expanded)

- XVII. **Synthesis of Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> nanorods by a V-assisted route and investigation of their battery performance**  
Altin S., Demirel S., Oz E., Altin E., Hetherington C., Bayri A., Avci S.  
CRYSTENGCOMM, vol.22, no.14, pp.2483-2490, 2020 (SCI-Expanded)
- XVIII. **Fabrication of Cr doped Na<sub>0.67</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>2</sub> compounds and investigation of their structural, electrical, magnetic and electrochemical properties**  
Altin E., Altundag S., Altin S., Bayri A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.19, pp.17848-17855, 2019 (SCI-Expanded)
- XIX. **Improving of the battery performance of Dy-substituted LiCoO<sub>2</sub> and investigating the mechanism of the cells**  
ALTIN S., ALTUNDAG S., ALTIN E., BAYRI A.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.23, no.10, pp.2881-2895, 2019 (SCI-Expanded)
- XX. **Investigations of the capacity fading mechanism of Na(0.44)MnO(2) via ex situ XAS and magnetization measurements**  
ALTIN S., OZ E., ALTIN E., DEMIREL S., BAYRI A., AVCI S.  
DALTON TRANSACTIONS, vol.47, no.47, pp.17102-17108, 2018 (SCI-Expanded)
- XXI. **Structural, magnetic, electrical, and electrochemical properties of Sr-Co-Ru-O: A hybrid-capacitor application**  
ALTIN S., BAYRI A., DEMIREL S., ÖZ E., ALTIN E., AVCI S.  
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.101, no.10, pp.4572-4581, 2018 (SCI-Expanded)
- XXII. **Fabrication of Ca-Mn-Nb-O compounds and their structural, electrical, magnetic and thermoelectric properties**  
OZ E., DEMIREL S., ALTIN S., ALTIN E., Baglayan O., BAYRI A., AVCI S.  
MATERIALS RESEARCH EXPRESS, vol.5, no.3, 2018 (SCI-Expanded)
- XXIII. **Structural, magnetic, electrical and electrochemical properties of SrCo<sub>0.25</sub>, Sr<sub>9</sub>Co<sub>2</sub>Mn<sub>5</sub>O<sub>21</sub> and SrMnO<sub>3</sub> compounds**  
Demirel S., Oz E., Altin S., Bayri A., Baglayan O., Altin E., Avci S.  
CERAMICS INTERNATIONAL, vol.43, no.17, pp.14818-14826, 2017 (SCI-Expanded)
- XXIV. **Thermally Induced Spin State Transition in LiCoO<sub>2</sub> and Its Effects on Battery Performance**  
Oz E., Demirel S., ALTIN S., ALTIN E., BAYRI A., AVCI S.  
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- XXV. **Electrochemical effects and magnetic properties of B substituted LiCoO<sub>2</sub>: Improving Li-battery performance**  
OZ E., ALTIN S., DEMIREL S., BAYRI A., ALTIN E., Baglayan O., AVCI S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.657, pp.835-847, 2016 (SCI-Expanded)
- XXVI. **Enhancement of battery performance of LiMn<sub>2</sub>O<sub>4</sub>: correlations between electrochemical and magnetic properties**  
DEMIREL S., OZ E., ALTIN S., BAYRI A., ALTIN E., AVCI S.  
RSC ADVANCES, vol.6, no.49, pp.43823-43831, 2016 (SCI-Expanded)
- XXVII. **Growth mechanism and magnetic and electrochemical properties of Na<sub>0.44</sub>MnO<sub>2</sub> nanorods as cathode material for Na-ion batteries**  
DEMIREL S., OZ E., ALTIN E., ALTIN S., BAYRI A., Kaya P., Turan S., Avci S.  
MATERIALS CHARACTERIZATION, vol.105, pp.104-112, 2015 (SCI-Expanded)
- XXVIII. **Magnetic and thermoelectric properties of B-substituted NaCoO<sub>2</sub>**  
ALTIN E., OZ E., DEMIREL S., BAYRI A.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.119, no.3, pp.1187-1196, 2015 (SCI-Expanded)

- XXIX. **An enhancement ZT and spin state transition of Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub> with Pb doping**  
DEMİREL S., ALTIN E., OZ E., ALTIN S., BAYRİ A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.627, pp.430-437, 2015 (SCI-Expanded)
- XXX. **Thermoelectric and mechanical properties of Mg-Al-Sb alloys**  
ALTIN E., OZ E., ERDEM M., DEMİREL S., Aydogdu Y., ALTIN S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.26, no.2, pp.1023-1032, 2015 (SCI-Expanded)
- XXXI. **Thermal and mechanical properties of La-Al-Sb alloys**  
ALTIN E., OZ E., DEMİREL S., ERDEM M.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.12, pp.5331-5337, 2014 (SCI-Expanded)
- XXXII. **Enhanced thermoelectric properties induced by chemical pressure in Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub>**  
DEMİREL S., Avci S., ALTIN E., ALTIN S., YAKINCI M. C.  
CERAMICS INTERNATIONAL, vol.40, no.4, pp.5217-5222, 2014 (SCI-Expanded)
- XXXIII. **Vortex pinning and magnetic peak effect in Eu(Eu,Ba)(<sub>2.125</sub>)Cu<sub>3</sub>O<sub>x</sub>**  
ALTIN E., GOKHFELD D. M., DEMİREL S., OZ E., KURT F., ALTIN S., YAKINCI M. C.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.25, no.3, pp.1466-1473, 2014 (SCI-Expanded)
- XXXIV. **MgB<sub>2</sub> thin film fabrication with excess Mg by sequential e-beam evaporation and transport properties under magnetic fields**  
ALTIN E., KURT F., ALTIN S., YAKINCI M. C., YAKINCI Z. D.  
CURRENT APPLIED PHYSICS, vol.14, no.3, pp.245-250, 2014 (SCI-Expanded)
- XXXV. **J(c) enhancement and flux pinning of Se substituted YBCO compound**  
YAKINCI Z. D., GOKHFELD D. M., ALTIN E., KURT F., ALTIN S., DEMİREL S., AKSAN M. A., YAKINCI M. C.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.12, pp.4790-4797, 2013 (SCI-Expanded)
- XXXVI. **Physical, electrical, transport and magnetic properties of Nd(Ba,Nd)(<sub>2.1</sub>)Cu<sub>3</sub>O<sub>7</sub>-delta system**  
ALTIN E., GOKHFELD D. M., KURT F., YAKINCI Z. D.  
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- XXXVII. **3D like vortex behavior and the thermally activated flux flow mechanism in (Hg<sub>0.8</sub>Re<sub>0.2</sub>)Ba<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> superconducting films**  
YAKINCI Z. D., ALTIN E.  
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- XXXVIII. **Dark current and optical properties in asymmetric GaAs/AlGaAs staircase-like multiquantum well structure**  
ALTIN E., HOŞTUT M., Ergun Y.  
INFRARED PHYSICS & TECHNOLOGY, vol.58, pp.74-79, 2013 (SCI-Expanded)
- XXXIX. **Hysteresis loops of MgB<sub>2</sub> + Co composite tapes**  
ALTIN E., GOKHFELD D. M., KOMOGORTSEV S. V., ALTIN S., YAKINCI M. C.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.24, no.4, pp.1341-1347, 2013 (SCI-Expanded)
- XL. **Barrier lowering effect and dark current characteristics in asymmetric GaAs/AlGaAs multi quantum well structure**  
ALTIN E., HOŞTUT M., Ergun Y.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.105, no.4, pp.833-839, 2011 (SCI-Expanded)
- XLI. **Power Law Dependence of I-V Characteristics of Bi-2212 Whiskers at Low Magnetic Fields**  
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JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, pp.223-227, 2011 (SCI-Expanded)
- XLII. **Effect of Bi<sub>2</sub>O<sub>3</sub> Addition on the Single-Crystal BiSrCaCuO Whisker Growth**

- ALTIN S., AKSAN M. A., ALTIN E., BALCI Y., YAKINCI M. C.  
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- XLIII. **The effect of Mo addition on the microstructure and J(c) properties of MgB<sub>2</sub> tapes fabricated by PIT method**  
Bayazit E., ALTIN S., YAKINCI M. C., AKSAN M. A., BALCI Y.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.457, pp.42-46, 2008 (SCI-Expanded)
- XLIV. **Magnetoresistance properties of Co-added MgB<sub>2</sub> tapes prepared by PIT method**  
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PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.460, pp.610-611, 2007 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Magnetic Properties of Eu<sup>3+</sup> ions for different surroundings: An investigation of the spin-orbit coupling in the structures**  
ALTIN E., BAYRI A.  
chemistry research journal, vol.4, no.5, pp.18-22, 2019 (Peer-Reviewed Journal)
- II. **KIZILÖTESİ SENSÖRLERİN SAĞLIK ALANINDAKİ UYGULAMALARI**  
ALTIN E., DEMİREL S.  
inönü Üniversitesi Sağlık Hizmetleri Meslek Yüksekokulu Dergisi, vol.5, no.8, pp.4-19, 2016 (Peer-Reviewed Journal)
- III. **Giant Dielectric Constant and Mechanical Heat Conducting and Structural Properties of Dental Composites by adding Ca ions**  
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### Refereed Congress / Symposium Publications in Proceedings

- I. **New Cu-Al Based Quaternary and Quinary High Temperature Shape Memory Alloy Composition Systems**  
Karaduman O., Ozkul I., Altin S., Altin E., Baglayan O., Canbay C. A.  
34th International Physics Congress (IPS) of the Turkish-Physical-Society (TPS), Konacik, Turkey, 5 - 09 September 2018, vol.2042
- II. **In situ MgB<sub>2</sub> Thin Film Fabrication on Commercial Ni tapes by e beam Evaporation and their electrical performance**  
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- III. **Effects of boron substitution on structure and morphology of NaMn<sub>2</sub>O<sub>4</sub> nanorods**  
AVCI S., DEMİREL S., OZ E., ALTIN E., ALTIN S., BAYRI A.  
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- IV. **Battery performance and structural properties of boron substituted Li- ion batteries**  
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- V. **Microstructural characterization of Na<sub>0.44</sub>MnO<sub>2</sub> nanorods as a cathode material for Na- ion batteries**  
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- VI. **The fabrication of B substituted Na<sub>4</sub>Mn<sub>9</sub>O<sub>18</sub> nanorods and their structural properties**  
Demirel S., Avci S., Altin E., Öz E., Altin S.  
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- VII. **Magnetic properties of Na<sub>0.44</sub>MnO<sub>2</sub> nanorods**  
Demirel S., Öz E., Avcı S., Altın E., Altın S., Bayrı A.  
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- VIII. **Evaluation of average grain size and microstrain in Li Co<sub>1-x</sub>BxO<sub>2</sub> cathode materials by the Williamson- Hall method**  
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- IX. **Jc enhancement and magnetic properties of Se substituted Yba<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub>**  
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- X. **MgB<sub>2</sub> thin film fabrication with e- beam evaporation and improvement critical current density**  
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7th Asian Conference on Applied Superconductivity and Cryogenics, Nevşehir, Turkey, 23 October 2013, pp.17
- XI. **Na<sub>0.44</sub>MnO<sub>2</sub> nanorods as a cathode material for Na- ion batteries**  
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- XII. **Power Law Dependences on I V of Bi 212 Whiskers at Low Magnetic fields**  
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- XIII. **Normal state electronic properties under applied magnetic fields of whiskers fabricated by Bi Ga and Sb doping**  
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- XIV. **Çökeltme Yöntemi Kullanılarak MgB<sub>2</sub> Kalın Filmlerin Hazırlanması ve Karakterizasyonu**  
YAKINCI Z. D., ALTIN E., türk n., ALTIN S., ÖZABACI M., AKSAN M. A., BALCI Y., YAKINCI M. E.  
II. Ulusal Bor Çalıştayı, Ankara, 2008, Turkey, 20 - 22 June 2008
- XV. **Dip Coating Yöntemi İle Şerit MgB<sub>2</sub> Süperiletkenlerin Eldesi ve Karakterizasyonu**  
ÖZABACI M., ALTIN S., gülşah K., YAKINCI Z. D., ALTIN E., AKSAN M. A., BALCI Y., YAKINCI M. E.  
II. Ulusal Bor Çalıştayı, Ankara, 2008, Turkey, 13 - 15 June 2008
- XVI. **Magnetoresistance properties of Co added MgB<sub>2</sub> tapes prepared by PIT method**  
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8th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Dresden (Germany), 9 - 14 July 2006
- XVII. **Magnetic Properties of Mo Substituted MgB<sub>2</sub> Superconductor Tapes**  
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6th International Conference of The Balkan Physical Union, 6 - 08 July 2006
- XVIII. **Co Katkılı MgB<sub>2</sub> Süperiletken Sistem**  
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III. Ulusal Yüksek Sıcaklık Süperiletkenler Sempozyumu, BOLU, Turkey, 20 - 22 June 2005

## Supported Projects

- Altın E., Aktaş A., Erdemoğlu M., Turan M. D., Bulut F., Ateş N., TUBITAK Project, Yerli Kaynaklardan Yüksek Safılıkta Elde Edilmiş Mangan(IV)Oksitten Li-İyon Bataryalarda Anot Malzemesi Olarak Kullanılmak Üzere Üretilen MgO/MnO<sub>2</sub> Yapılarının Araştırılması, 2024 - 2026
- ALTIN S., ALTIN E., Project Supported by Higher Education Institutions, İyon Değişimre Yöntemi İle NaFePO<sub>4</sub> üretimi ve elektrokimyasal özelliklerinin araştırılması, 2021 - 2022
- BAYRI A., BULUT F., ALTIN S., ALTIN E., ADIGÜZEL H. İ., Project Supported by Higher Education Institutions, Na-iyon piller için demir-krom içeren elektrot geliştirilmesi, 2018 - 2019
- ALTIN S., ÖNAL Y., DEMİREL S., BAYRI A., YAŞAR S., ALTIN E., BULUT F., Project Supported by Higher Education

Institutions, Şarjedilebilir mini/mikro-pil üretimi ve elektrokimyasal performanslarının belirlenmesi, 2017 - 2019  
ALTIN E., Project Supported by Higher Education Institutions, YENİDEN DOLDURULABİLİR Na-PİLLERDE YENİ ANOT MALZEMELERİNİN ARAŞTIRILMASI, 2016 - 2017  
ALTIN E., Project Supported by Higher Education Institutions, Mg BAZLI ALAŞIMLARDA KİMYASAL BASINÇ DEĞİŞİMİNİN TERMOELEKTRİK VE MEKANİK ÖZELLİKLERE ETKİSİNİN ARAŞTIRILMASI, 2015 - 2016  
ALTIN E., TUBİTAK Project, Bor Katkılı Yeni Teknoloji Na-Ion Pillerin Tasarlanması Ve Performanslarının İncelenmesi, 2012 - 2014  
ALTIN E., TUBİTAK Project, Merdiven Kuyulu GaAs/GaAlAs foto-algılayıcılar, 2006 - 2009

## Patent

Altın S., Bayrı A., Altın E., Demirel S., Primer Tipi Sodyum Hipofosfit Pil Dizaynı, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2017 22861 B , Standard Registration, 2022  
Altın S., Demirel S., Bayrı A., Avcı S., Altın E., Öz E., Yüksek Kapasiteli ve Uzun ömürlü Li-yon Ve Na-yon Pil ve Bu Pillerde Kullanılan Katot Materyali Üretim Yöntemi, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2015 04382 B , Standard Registration, 2019

## Scientific Refereeing

CHEMICAL ENGINEERING JOURNAL, SCI Journal, January 2022  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, November 2020  
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, June 2020  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, March 2020

## Metrics

Publication: 67  
Citation (WoS): 175  
Citation (Scopus): 163  
H-Index (WoS): 7  
H-Index (Scopus): 7

## Awards

ALTIN E., 2003 Yılı İnönü Üniversitesi Fen Edebiyat Fakültesi Fizik Bölümü Birinciliği, İnönü Üniversitesi, June 2003