

## Prof. Dr. MUSTAFA ANIK

### Kişisel Bilgiler

E-posta: manik@ogu.edu.tr

Web: <https://avesis.ogu.edu.tr/manik>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-0166-7862

Yoksis Araştırmacı ID: 2824

### Eğitim Bilgileri

Doktora, The Pennsylvania State University, Materials Science And Engineering, Amerika Birleşik Devletleri 1997 - 2000  
Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Türkiye 1992 - 1995  
Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Türkiye 1987 - 1992

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Electrochemical Aspects of the Chemical Mechanical Planarization of Tungsten, The Pennsylvania State University, Materials Science And Engineering, 2000

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2010 - Devam Ediyor

Doç. Dr., Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2005 - 2010

Yrd. Doç. Dr., Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2001 - 2005

### Akademik İdari Deneyim

Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Metalurji Ve Malzeme Mühendisliği Bölümü, 2013 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Nanobilim ve Nanoteknoloji, 2011 - Devam Ediyor

Enstitü Müdürü, Eskişehir Osmangazi Üniversitesi, Metalurji Enstitüsü, 2015 - 2015

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

- I. **Investigating the Structural and Lithium Storage Properties of High-Entropy Oxides in the Mg-Co-Ni-Cu-Zn-O System**  
LÖKÇÜ E., ANIK M.  
Scripta Materialia, cilt.240, 2024 (SCI-Expanded)
- II. **Synthesis of N-Doped Graphene Photo-Catalyst for Photo-Assisted Charging of Li-Ion Oxygen Battery**  
Kaçar N., LÖKÇÜ E., ÇAYIRLI M., ÖZDEN R. C., COŞKUN Ş., TOPARLI Ç., ÇELİKYÜREK İ., ANIK M.  
Global Challenges, cilt.8, sa.1, 2024 (SCI-Expanded)
- III. **Photocatalytic Efficiency of g-C<sub>3</sub>N<sub>4</sub>/Graphene Nanocomposites in the Photo-Assisted Charging of the Li-Ion Oxygen Battery**  
Kaçar N., Çayirli M., Özden R. C., Lökçü E., Anik M.  
ACS OMEGA, cilt.8, sa.48, ss.46227-46235, 2023 (SCI-Expanded)
- IV. **Ultrasound-assisted synthesis of rGO/SiO<sub>2</sub>-based nanosheets and their electrochemical performances in Li-ion batteries**  
Lökçü E., CAN S., Anik M.  
Turkish Journal of Chemistry, cilt.47, sa.2, ss.495-503, 2023 (SCI-Expanded)
- V. **Photoassisted Charging of Li-Ion Oxygen Batteries Using g-C<sub>3</sub>N<sub>4</sub>/rGO Nanocomposite Photocatalysts**  
LÖKÇÜ E., Kaçar N., ÇAYIRLI M., ÖZDEN R. C., ANIK M.  
ACS APPLIED MATERIALS & INTERFACES, cilt.14, sa.30, ss.34583-34592, 2022 (SCI-Expanded)
- VI. **Effect of rGO loading on the electrochemical performance of Li<sub>2</sub>Si/rGO composite anodes for lithium-ion batteries**  
Çelikbilek Z., CAN S., LÖKÇÜ E., ANIK M.  
International Journal of Energy Research, cilt.46, sa.2, ss.1137-1145, 2022 (SCI-Expanded)
- VII. **Electrochemical hydrogen storage properties of mechanically alloyed Mg<sub>0.8</sub>Ti<sub>0.2-x</sub>Mn<sub>x</sub>Ni (x 1/4 0, 0.025, 0.05, 0.1) type alloys**  
Küçükdeveci N., AKAY ERDOĞAN I., BİNAL AYBAR A., ANIK M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.47, sa.4, ss.2511-2519, 2022 (SCI-Expanded)
- VIII. **Synthesis and electrochemical performance of lithium silicide based alloy anodes for Li-ion oxygen batteries**  
LÖKÇÜ E., ANIK M.  
International Journal of Hydrogen Energy, cilt.46, ss.10624-10631, 2021 (SCI-Expanded)
- IX. **Electrochemical Performance of (MgCoNiZn)<sub>(1-x)</sub>Li<sub>x</sub>O High-Entropy Oxides in Lithium-Ion Batteries**  
LÖKÇÜ E., Toparli C., ANIK M.  
ACS APPLIED MATERIALS & INTERFACES, cilt.12, sa.21, ss.23860-23866, 2020 (SCI-Expanded)
- X. **Enhancement of the mechanical properties of EN52CrMoV4 spring steel by deep cryogenic treatment**  
Verbesserung der mechanischen Eigenschaften von EN52CrMoV4 Federstahl durch Tieftemperaturbehandlung  
ÖZDEN R. C., Anik M.  
MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, cilt.51, sa.4, ss.422-431, 2020 (SCI-Expanded)
- XI. **Synthesis of La<sub>2</sub>MgNi<sub>9</sub> hydrogen storage alloy in molten salt**  
Durger N. B., ANIK M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.15, ss.8750-8756, 2020 (SCI-Expanded)
- XII. **Corrosion and Wear Characteristics of Electroless Ni-P, Ni-P-W and Composite Ni-P-W/Al<sub>2</sub>O<sub>3</sub>**

### **Coatings on AZ91 Sheet**

Tasci S., ÖZDEN R. C., ANIK M.

METALS AND MATERIALS INTERNATIONAL, cilt.25, sa.2, ss.313-323, 2019 (SCI-Expanded)

- XIII. **Dissolution Behavior of Electrodeposited Ni-W Alloys**  
Adiguzel Z., ANIK M.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, cilt.54, sa.2, ss.316-324, 2018 (SCI-Expanded)
- XIV. **Direct synthesis of La-Mg-Ni-Co type hydrogen storage alloys from oxide mixtures**  
BİNAL AYBAR A., ANIK M.  
JOURNAL OF ENERGY CHEMISTRY, cilt.26, sa.4, ss.719-723, 2017 (SCI-Expanded)
- XV. **Molten salt synthesis of La(Ni<sub>1-x</sub>Co<sub>x</sub>)(5) (x=0, 0.1, 0.2, 0.3) type hydrogen storage alloys**  
ANIK M., Hatirnaz N. B., BİNAL AYBAR A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.41, sa.1, ss.361-368, 2016 (SCI-Expanded)
- XVI. **Synthesis of La<sub>2</sub>Ni<sub>7</sub> hydrogen storage alloy by the electro-deoxidation technique**  
ANIK M., BİNAL AYBAR A., Kucukdeveci N., Erken H., BAKSAN B., GAŞAN H., Hatirnaz N. B., LÖKÇÜ E.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.40, sa.5, ss.2248-2254, 2015 (SCI-Expanded)
- XVII. **Synthesis of La-2(Ni<sub>1-x</sub>Co<sub>x</sub>)(7) (x=0.05, 0.1, 0.2) Hydrogen Storage Alloys by the Electro-Deoxidation Technique**  
ANIK M., BİNAL AYBAR A., Hatirnaz N. B., Ozdemir D.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.162, sa.6, 2015 (SCI-Expanded)
- XVIII. **Hydrogen storage characteristics of Ti<sub>2</sub>Ni alloy synthesized by the electro-deoxidation technique**  
ANIK M., BAKSAN B., Orbay T. O., Kucukdeveci N., BİNAL AYBAR A., ÖZDEN R. C., GAŞAN H., KOÇ N.  
INTERMETALLICS, cilt.46, ss.51-55, 2014 (SCI-Expanded)
- XIX. **Discharging characteristics of CoB nano powders**  
ANIK M., Kucukdeveci N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.38, sa.3, ss.1501-1509, 2013 (SCI-Expanded)
- XX. **Charge/discharge characteristics of electroless CoB films**  
ANIK M., Kucukdeveci N., Yilmaz A.  
THIN SOLID FILMS, cilt.527, ss.69-75, 2013 (SCI-Expanded)
- XXI. **Improvement of the electrochemical hydrogen storage performance of magnesium based alloys by various additive elements**  
Anik M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.37, sa.2, ss.1905-1911, 2012 (SCI-Expanded)
- XXII. **Development of the high performance magnesium based hydrogen storage alloy**  
ANIK M., Karanfil F., Kucukdeveci N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.37, sa.1, ss.299-308, 2012 (SCI-Expanded)
- XXIII. **Effect of Titanium additive element on the discharging behavior of MgNi Alloy electrode**  
Anik M.  
International Journal of Hydrogen Energy, cilt.36, sa.23, ss.15075-15080, 2011 (SCI-Expanded)
- XXIV. **Electrochemical hydrogen storage characteristics of Mg-Pd-Ni ternary alloys**  
ANIK M., Ozdemir G., Kucukdeveci N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.36, sa.11, ss.6744-6750, 2011 (SCI-Expanded)
- XXV. **Effect of Al, B, Ti and Zr additive elements on the electrochemical hydrogen storage performance of MgNi alloy**  
ANIK M., Ozdemir G., Kucukdeveci N., BAKSAN B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.36, sa.2, ss.1568-1577, 2011 (SCI-Expanded)
- XXVI. **Anodic reaction characteristics of tungsten in basic phosphate solutions**  
Anik M.  
Corrosion Science, cilt.52, sa.9, ss.3109-3117, 2010 (SCI-Expanded)
- XXVII. **Corrosion characteristics of Alloy AZ63 in buffered neutral solutions**  
ANIK M., Gunesdogdu I. M.

- MATERIALS & DESIGN, cilt.31, sa.6, ss.3100-3105, 2010 (SCI-Expanded)
- XXVIII. **Electrochemical hydrogen storage capacities of Mg<sub>2</sub>Ni and MgNi alloys synthesized by mechanical alloying**  
Anik M.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.491, ss.565-570, 2010 (SCI-Expanded)
- XXIX. **Electrochemical hydrogen storage performance of Mg-Ti-Zr-Ni alloys**  
ANIK M., AKAY ERDOĞAN I., Oezdemir G., BAKSAN B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.34, sa.24, ss.9765-9772, 2009 (SCI-Expanded)
- XXX. **Improvement of the electrochemical hydrogen storage performance of Mg<sub>2</sub>Ni by the partial replacements of Mg by Al, Ti and Zr**  
Anik M.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.486, ss.109-114, 2009 (SCI-Expanded)
- XXXI. **Effect of electroless nickel coating on the electrochemical hydrogen storage characteristics of Al and Zr including Mg-based alloys**  
ANIK M., AKAY ERDOĞAN I., Topcu S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.34, sa.13, ss.5449-5457, 2009 (SCI-Expanded)
- XXXII. **pH-dependent anodic reaction behavior of tungsten in acidic phosphate solutions**  
Anik M.  
ELECTROCHIMICA ACTA, cilt.54, sa.15, ss.3943-3951, 2009 (SCI-Expanded)
- XXXIII. **Electrochemical hydrogen storage characteristics of Mg<sub>1.5</sub>Al<sub>0.5-x</sub>Zr<sub>x</sub>Ni (x=0, 0.1, 0.2, 0.3, 0.4, 0.5) alloys synthesized by mechanical alloying**  
ANIK M., GAŞAN H., Topcu S., AKAY ERDOĞAN I., Aydinbeyli N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.34, sa.6, ss.2692-2700, 2009 (SCI-Expanded)
- XXXIV. **Effect of coating bath composition on the properties of electroless nickel-boron films**  
ANIK M., Korpe E., Sen E.  
SURFACE & COATINGS TECHNOLOGY, cilt.202, sa.9, ss.1718-1727, 2008 (SCI-Expanded)
- XXXV. **Analysis of the electrochemical reaction behavior of alloy AZ91 by EIS technique in H<sub>3</sub>PO<sub>4</sub>/KOH buffered K<sub>2</sub>SO<sub>4</sub> solutions**  
Anik M., Celikten G.  
CORROSION SCIENCE, cilt.49, sa.4, ss.1878-1894, 2007 (SCI-Expanded)
- XXXVI. **Effect of alloy microstructure on electroless NiP deposition behavior on Alloy AZ91**  
Anik M., Korpe E.  
SURFACE & COATINGS TECHNOLOGY, cilt.201, sa.8, ss.4702-4710, 2007 (SCI-Expanded)
- XXXVII. **Effect of concentration gradient on the anodic behavior of tungsten**  
Anik M.  
CORROSION SCIENCE, cilt.48, sa.12, ss.4158-4173, 2006 (SCI-Expanded)
- XXXVIII. **Dissolution kinetics of WO<sub>3</sub> in acidic solutions**  
Anik M., Cansizoglu T.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.36, sa.5, ss.603-608, 2006 (SCI-Expanded)
- XXXIX. **Effect of the eutectic phase mixture on the anodic behavior of alloy AZ91**  
Anik M., Avci P., Tanverdi A., Celikyurek İ., BAKSAN B., Gurler R.  
MATERIALS & DESIGN, cilt.27, sa.5, ss.347-355, 2006 (SCI-Expanded)
- XL. **Selection of an oxidant for copper chemical mechanical polishing: Copper-iodate system**  
Anik M.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.35, sa.1, ss.1-7, 2005 (SCI-Expanded)
- XLI. **Reduction characteristics of iodate ion on copper: Application to copper chemical mechanical polishing**  
Anik M.  
Journal of Applied Electrochemistry, cilt.34, sa.9, ss.963-969, 2004 (SCI-Expanded)
- XLII. **Diffusion effect on the anodic reactions of tungsten**  
Anik M., Cansizoglu T., Cevik S.

- TURKISH JOURNAL OF CHEMISTRY, cilt.28, sa.4, ss.425-439, 2004 (SCI-Expanded)
- XLIII. **Effect of pH on the anodic Behavior of tungsten**  
Anik M., Osseo-Asare K.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.149, sa.6, 2002 (SCI-Expanded)
- XLIV. **Anodic Behavior of tungsten in H<sub>3</sub>PO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub>-H<sub>2</sub>SO<sub>4</sub>/KOH solutions**  
Anik M.  
TURKISH JOURNAL OF CHEMISTRY, cilt.26, sa.6, ss.915-924, 2002 (SCI-Expanded)
- XLV. **Chemical Mechanical Polishing of Tungsten: Effect of Tungstate Ion on the Electrochemical Behavior of Tungsten**  
Osseo-Asare K., Anik M., DeSimone J.  
Electrochemical and Solid-State Letters, cilt.2, sa.3, ss.143-144, 1999 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Effect of H<sub>2</sub>/Ar Ratio on the Photoanodic Currents of Graphene/MoS<sub>2</sub> Films**  
ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.26, ss.718-722, 2023 (Scopus)
- II. **Glycine-Assisted Synthesis of High Surface Area (FeMnCrCoZn)<sub>304</sub> Microsheets**  
ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.26, ss.416-419, 2023 (Scopus)
- III. **Improved Energy Efficiency of Lithium-Air Batteries by using Alloy Based Anode and Photocatalyst Loading Cathode**  
LÖKÇÜ E., ANIK M., ÖZDEN R. C.  
The Eurasia Proceedings of Science Technology Engineering and Mathematics, cilt.21, sa.1, ss.237-240, 2022 (Scopus)
- IV. **Electrochemical Performance of Tin-Based Solder Alloys for Secondary Lithium Batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science Technology Engineering and Mathematics, cilt.21, sa.1, ss.214-217, 2022 (Scopus)
- V. **Improvement of Photo-Catalytic Properties of Graphene by N-Doping**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
The Eurasia Proceedings of Science Technology Engineering and Mathematics, cilt.21, sa.1, ss.283-287, 2022 (Scopus)
- VI. **Synthesis of Nanocomposite Photo-Catalysts for Photo-Assisted Charging of Li-Ion Oxygen Batteries**  
Lökçü E., Özden R. C., Anik M.  
The Eurasia Proceedings of Science Technology Engineering and Mathematics, cilt.21, sa.1, ss.316-320, 2022 (Scopus)
- VII. **Synthesis of rGO/g-C<sub>3</sub>N<sub>4</sub> Composite Cathodes for Li – Ion – Oxygen Battery**  
LÖKÇÜ E., KAÇAR N., ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.16, ss.47-51, 2021 (Hakemli Dergi)
- VIII. **Synthesis and Electrochemical Performance of Spinel Crystal Structured ((FeNiCrMn)<sub>1-x</sub>Cox)<sub>304</sub> (x=0.1, 0.2, 0.3) High Entropy Oxides**  
ÇAYIRLI M., ERDOĞAN ESEN E., LÖKÇÜ E., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.16, ss.140-144, 2021 (Hakemli Dergi)
- IX. **Synthesis of Graphene/g-C<sub>3</sub>N<sub>4</sub> Composite Photo-Electrodes for Li – Ion – Oxygen Battery**  
KAÇAR N., LÖKÇÜ E., ÖZDEN R. C., ANIK M.

- The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.16, ss.162-166, 2021 (Hakemli Dergi)
- X. **Study of the Lithium Diffusion Properties of (MgCoNiLiZn)O High EntropyOxide as an Anode in Lithium-Ion Battery**  
LÖKÇÜ E., ANIK M., ÖZDEN R. C.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.16, ss.77-81, 2021 (Hakemli Dergi)
- XI. **Cryogenic Process Optimization for Medium Carbon Spring Steels**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), cilt.16, ss.14-19, 2021 (Hakemli Dergi)
- XII. **Effects of Deep Cryogenic Treatment on the Mechanical Properties of Medium Carbon Spring Steels**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering and Mathematics, cilt.11, ss.48-52, 2020 (Hakemli Dergi)
- XIII. **Effect of Co Content on the Electrochemical Properties of (MgCoNiZnLi)O Based High Entropy Oxides for Li-Ion Batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), cilt.11, ss.29-32, 2020 (Hakemli Dergi)
- XIV. **Effect of Mg Content on the Electrochemical Properties of (MgCoNiZnLi)O Based High Entropy Oxides for Li-Ion Batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), cilt.11, ss.53-56, 2020 (Hakemli Dergi)
- XV. **Effects of Deep Cryogenic Treatment on the Microstructural Properties of Medium Carbon Spring Steels**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
The Eurasia Proceedings of Science, Technology, Engineering and Mathematics, cilt.11, ss.5-8, 2020 (Hakemli Dergi)
- XVI. **The Anode Performance of the Mg<sub>0.2</sub>Co<sub>0.2</sub>Ni<sub>0.2</sub>Zn<sub>0.2</sub>Li<sub>0.1</sub>Cu<sub>0.1</sub>O High Entropy Oxide for Li-Ion Batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), cilt.11, ss.136-140, 2020 (Hakemli Dergi)
- XVII. **SYNTESIS AND ELECTROCHEMICAL PERFORMANCE OF THE (Mg<sub>0.2</sub>Co<sub>0.2</sub>Ni<sub>0.2</sub>Zn<sub>0.2</sub>Li<sub>0.2</sub>)O HIGH ENTROPY OXIDE AS ANODE MATERIAL FOR Li-ION BATTERIES**  
ANIK M., LÖKÇÜ E.  
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), cilt.7, ss.329-332, 2019 (Hakemli Dergi)
- XVIII. **Use of molten salt method in the synthesis of metal hydride electrode materials**  
ANIK M.  
The online journal of science and technology, cilt.7, sa.3, ss.164-168, 2017 (Hakemli Dergi)
- XIX. **Isıl İşlemin Akımsız Ni-B Kaplamanın Mikro-Yapısına, Korozyon Direncine Ve Sertliğine Etkisi**  
ANIK M., BAKSAN B., KÖRPE E.  
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), cilt.22, sa.2, ss.111-124, 2009 (Hakemli Dergi)

- I. **MgTiMnZrNi Alařımlarının Elektrokimyasal Hidrojen Depolama Performansları(Electrochemical Hydrogen Storage Performances of MgTiMnZrNi quaniry Alloys)**  
KÜÇÜKDEVECİ N., AKAY ERDOĐAN I., BİNAL AYBAR A., BAYER ÖZTÜRK Z., ANIK M.  
4. Internatınonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21 ), Nevşehir, Türkiye, 28 Mayıs 2021
- II. **Microstructural and Electrochemical Properties of (Mg<sub>0.2</sub>Co<sub>0.2</sub>Ni<sub>0.2</sub>Zn<sub>0.2</sub>Li<sub>0.1</sub>Al<sub>0.1</sub>)O High Entropy Oxide Anode**  
ÇAYIRLI M., CAN S., LÖKÇÜ E., ANIK M.  
International Congress of Engineering and Natural Sciences Studies, Ankara, Türkiye, 7 - 09 Mayıs 2021
- III. **Synthesis and Characterization of rGO@SiO<sub>2</sub> Nanostructures for Li-Ion Batteries**  
CAN S., ÇAYIRLI M., LÖKÇÜ E., ANIK M.  
International Congress of Engineering and Natural Sciences Studies, Ankara, Türkiye, 7 - 09 Mayıs 2021
- IV. **Effect of deep cryogenic treatment on the microstructural properties of medium carbon spring steels**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
International conference on technology, engineering and science, Türkiye, 29 Ekim - 01 Kasım 2020, cilt.11, ss.5-8
- V. **The anode performance of the Mg<sub>0.2</sub>Co<sub>0.2</sub>Ni<sub>0.2</sub>Zn<sub>0.2</sub>Li<sub>0.1</sub>Cu<sub>0.1</sub>O high entropy oxide for Li-ion batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
International conference on technology, engineering and science, Antalya, Türkiye, 29 Ekim - 01 Kasım 2020, cilt.11, ss.136-140
- VI. **Effect of deep cryojenik treatment on the mechanical properties of medium carbon spring steels**  
ÖZDEN R. C., LÖKÇÜ E., ANIK M.  
International conference on technology engineering and science, Antalya, Türkiye, 29 Ekim - 01 Kasım 2020, cilt.11, ss.48-52
- VII. **Effect of Mg content on the electrochemical properties of (MgCoNiZnLi)O based high entropy oxides for Li-ion batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
International conference on technology, engineering and science, Antalya, Türkiye, 29 Ekim - 01 Kasım 2020, cilt.11, ss.53-56
- VIII. **The effect of Co content on the electrochemical properties of CoMgNiZnLiO based high entropy oxides for Li ion batteries**  
LÖKÇÜ E., ÖZDEN R. C., ANIK M.  
International conference on technology enginnering ans science, Türkiye, 29 Ekim - 01 Kasım 2020, cilt.11, ss.29-32
- IX. **Synthesis of Li<sub>2</sub>Si<sub>5</sub>/reduced graphene oxide nanocomposite as anode material for Li-ion batteries**  
CAN S., LÖKÇÜ E., ANIK M.  
2nd international conference on natural and applied science and engineering, Türkiye, 21 - 25 Ekim 2020, ss.1-4
- X. **Synthesis and lithium storage properties of non-equiatomic MgNiCuZnCo high-entropy oxides**  
ÇAYIRLI M., LÖKÇÜ E., ANIK M.  
2nd international conference on natural and applied science and engineering, Türkiye, 21 - 25 Ekim 2020, ss.9-12
- XI. **Synthesis and lithium storage properties of non-equiatomic MgNiCuZnCo high-entropy oxides**  
ÇAYIRLI M., LÖKÇÜ E., ANIK M.  
ICNASEN-2020, Antalya, Türkiye, 21 - 25 Ekim 2020
- XII. **Effect of Manganese Additive Element on Mg<sub>0.8</sub>Ti<sub>0.2</sub>Ni Ternary Hydrogen Storage Alloys**  
KÜÇÜKDEVECİ N., BİNAL AYBAR A., AKAY ERDOĐAN I., ANIK M.  
4. The International Conference on Material Science and Technology in Kızılcahamam/Ankara, 18 - 20 Ekim 2019
- XIII. **Effects of Deep Cryogenic Treatment on The Mechanical Properties of 52CrMoV4 Steel**  
ÖZDEN R. C., ANIK M.  
UDCS'19 Fourth International Iron and Steel Symposium, 4 - 06 Nisan 2019
- XIV. **Effect Of Alloying Elements On The Wear Properties Of Cryogenically Treated Medium Carbon Spring**

## **Steels**

ÖZDEN R. C., ANIK M.

UDCS'19 Fourth International Iron and Steel Symposium, 4 - 06 Nisan 2019

- XV. **Effects of Deep Cryogenic Treatment on the Wear Properties of 52 CrMoV4 Steel**  
ÖZDEN R. C., ANIK M., GAŞAN H.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE ENGINEERING, 9 - 12 Mayıs 2018
- XVI. **Electrochemical Hydrogen Storage: Alloy Synthesis and Characterization**  
ANIK M.  
3rd international conference on material science and technology in cappadocia (IMSTEC 18), 17 - 19 Eylül 2018
- XVII. **Direct Synthesis of La-Ni Based Hydrogen Storage Alloys from the Oxide Form**  
BİNAL AYBAR A., ANIK M.  
19. Uluslararası Metalurji ve Malzeme Kongresi, 25 - 27 Ekim 2018
- XVIII. **Synthesis of La-Ni based hydrogen storage alloys by electro-deoxidation**  
ANIK M.  
2nd international conference on innovations in natural science and engineering, 7 - 10 Eylül 2018
- XIX. **Characteristics of electroless NiPW coatings on AZ91 sheet**  
ÖZDEN R. C., ANIK M.  
2nd international conference on innovations in natural science and engineering, 7 - 10 Eylül 2018
- XX. **Electrode Performans of CoB Films as Anode Materials For Lithium Ion Batteries**  
KÜÇÜKDEVECİ N., ANIK M.  
2nd International Conference of Materials Science and Technology in Cappadocia, 11 - 13 Ekim 2017
- XXI. **Development of porous graphene based cathodes for Li-air batteries**  
LÖKÇÜ E., ANIK M.  
ICONTEs 2017, 26 - 29 Ekim 2017
- XXII. **Electrochemical hydrogen storage in nanostructures**  
LÖKÇÜ E., ANIK M.  
ICONTEs 2017, 26 - 29 Ekim 2017
- XXIII. **Characterization of electrochemically synthesized carbon nanotubes as cathode for metal air batteries**  
ANIK M., LÖKÇÜ E.  
ICONTEs 2017, 26 - 29 Ekim 2017
- XXIV. **Synthesis of anode and cathode electrodes for Li-air batteries**  
ANIK M., LÖKÇÜ E.  
METAL 2017, 24 - 26 Mayıs 2017
- XXV. **Synthesis of La-Mg-Ni-Co/Carbon nanotube composite hydrogen storage electrodes**  
LÖKÇÜ E., ANIK M.  
METAL 2017, 24 - 26 Mayıs 2017
- XXVI. **Effect of Magnesium Additive Element on the Hydrogen Storage Characteristics of La-Ni Based Alloys**  
BİNAL AYBAR A., ANIK M.  
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Türkiye, 10 - 12 Mayıs 2017
- XXVII. **Synthesis of La-Mg-Ni-Co Hydrogen Storage Alloys by Electro-deoxidation**  
BİNAL AYBAR A., ANIK M.  
The Second International Hydrogen Technologies Congress - 2017 (IHTEC 2017), Adana, Türkiye, 15 - 18 Mart 2017
- XXVIII. **Synthesis of CoB Nano-Powder as Electrode Material**  
KÜÇÜKDEVECİ N., ANIK M.  
2nd International Hydrogen Technologies Congress, 15 - 18 Mart 2017
- XXIX. **Use of molten salt method in the synthesis of metal hydride electrode materials**  
ANIK M.  
2016 ISTECh, 13 - 15 Temmuz 2016
- XXX. **Synthesis of carbon nanotubes via molten salt technique for li air batteries**



- ANIK M., LÖKÇÜ E.  
18th international metallurgy and materials congress, 29 Ekim - 01 Kasım 2016
- XXXI. **Corrosion characteristics of nanocrystalline Ni W electrolytic coating**  
ADIGÜZEL Z., ANIK M.  
EOROCORR 2016, 11 - 15 Ekim 2016
- XXXII. **AZ91 Magnezyum Alaşımı Üzerine Yapılan Akımsız Ni-P-W / Al<sub>2</sub>O<sub>3</sub> Kompozit Kaplamaya Uygulanan Isıl İşlemin Kaplamanın Korozyon Özelliklerine Etkisi**  
TAŞÇI S., ÖZDEN R. C., ANIK M.  
14th International Corrosion Symposium, 5 - 07 Ekim 2016
- XXXIII. **Corrosion properties of Ni P W Al<sub>2</sub>O<sub>3</sub> Electroless composite coatings on AZ91 magnesium alloy**  
Taşçı S., ÖZDEN R. C., ANIK M.  
18th international metallurgy and materials congress, 29 Eylül - 01 Ekim 2016
- XXXIV. **SYNTHESIS and CHARACTERIZATION of A2B7 TYPE HYDROGEN STORAGE ALLOYS**  
BİNAL AYBAR A., ANIK M.  
International Material Science and Technology in Cappadocia (IMSTEC'16), April 6-8, 2016, Nevşehir, Turkey, Nevşehir, Türkiye, 6 - 08 Nisan 2016, ss.819-822
- XXXV. **Synthesis of La Mg Ni Co hydrogen storage alloys by the electro deoxidation technique**  
BİNAL AYBAR A., ANIK M.  
IEE8E, 11 - 13 Mayıs 2016
- XXXVI. **Synthesis and characterization of A2B7 type hydrogen storage alloys**  
BİNAL AYBAR A., ANIK M.  
IMSTEC 2016, 6 - 08 Nisan 2016
- XXXVII. **Synthesis of cob nanopowder and determination of their electrode performances**  
KÜÇÜKDEVECİ N., ANIK M.  
IMSTEC 2016, 6 - 08 Nisan 2016
- XXXVIII. **Electrode performances of electroless cob films**  
KÜÇÜKDEVECİ N., ANIK M.  
IMSTEC 2016, 6 - 08 Nisan 2016
- XXXIX. **SYNTHESIS OF TI-NI BASED HYDROGEN STORAGE ALLOY IN MOLTEN SALT**  
ANIK M.  
25th Anniversary International Conference on Metallurgy and Materials (METAL), Brno, Çek Cumhuriyeti, 25 - 27 Mayıs 2016, ss.1280-1284
- XL. **Synthesis of L NixCo<sub>1-x</sub> 5 Type Hydrogen Storage Alloys by Electro deoxidation**  
ANIK M., HATIRNAZ N. B., BİNAL AYBAR A.  
World congress and Expo on MaterialsScience & Polymer Engineering, Dubai, Birleşik Arap Emirlikleri, 26 - 28 Kasım 2015
- XLI. **Synthesis of La NixCo<sub>1-x</sub> 5 type hydrogen storage alloys by electro deoxidation**  
ANIK M., Başak H., BİNAL AYBAR A.  
World congress and expo on materials science & polymer engineering, Dubai, Birleşik Arap Emirlikleri, 26 - 28 Kasım 2015
- XLII. **Synthesis of A2B7 Type Hydrogen Storage Alloys in the Molten Salt**  
BİNAL AYBAR A., Duygu A., ANIK M.  
mESC-IS 2015 International Symposium on Materials for Energy Storage & Conversion, Ankara, Türkiye, 7 - 09 Eylül 2015
- XLIII. **Use of Electro deoxidation in the synthesis of hydrogen storage alloys**  
Başak H., Özdemir D., ANIK M.  
mESC-IS 2015 International Symposium on Materials for Energy Storage & Conversion, Ankara, Türkiye, 7 - 09 Eylül 2015
- XLIV. **Molten Salt Synthesis of La Ni Co Hydrogen Storage Alloys**  
ANIK M., BİNAL AYBAR A., Başak H., Özdemir D.  
METAL 2015, Brno, Çek Cumhuriyeti, 3 - 05 Haziran 2015, ss.140

- XLV. **Haddelenmiş AZ91 Magnezyum Alaşımı Üzerine Ni-P-W Kaplama Uygulanması ve Kaplamanın Korozyon Karakteristikleri**  
TAŞÇI S., ÖZDEN R. C., ANIK M.  
13th International Corrosion Symposium, 15 - 17 Ekim 2014
- XLVI. **Selection of an oxidant for copper CMP**  
ANIK M.  
205th ECS Meeting, San Antonio, TX, Amerika Birleşik Devletleri, 9 - 13 Mayıs 2004, ss.327-337
- XLVII. **Ötektik fazın AZ91 alaşımının anodik davranışına etkisi**  
ANIK M., Avcı P., Tanrıverdi A., ÇELİKYÜREK İ., BAKSAN B., GÜRLER R.  
I. Ulusal Metalurji ve malzeme günleri, Eskişehir, Türkiye, 27 - 28 Mayıs 2004, ss.203-208
- XLVIII. **Diffusion effect on the anodic reactions of tungsten**  
Anik M., Cansizoglu T., Cevik S.  
International Symposium on Surface Oxide Films held at the 204th Electrochemical-Society Meeting, Florida, Amerika Birleşik Devletleri, 12 - 17 Ekim 2003, cilt.2003, ss.227-240

## Desteklenen Projeler

- BAYKUL M. C., LÖKÇÜ E., ANIK M., Yükseköğretim Kurumları Destekli Proje, Fotovoltaik Panel İle Şarj Edilebilen Li-Hava Pili'nin Geliştirilmesi, 2019 - 2022
- ANIK M., Yükseköğretim Kurumları Destekli Proje, Magnezyum Esaslı Elektrokimyasal Hidrojen Depolama Alaşımının Geliştirilmesi, 2013 - 2014
- ANIK M., Yükseköğretim Kurumları Destekli Proje, Yüksek Performanslı Elektrokimyasal Depolama Alaşımının Geliştirilmesi, 2013 - 2014

## Metrikler

- Yayın: 113  
Atıf (WoS): 1123  
Atıf (Scopus): 1253  
H-İndeks (WoS): 20  
H-İndeks (Scopus): 20

## Akademi Dışı Deneyim

- Eskişehir Osmangazi Üniversitesi  
Eskişehir Osmangazi Üniversitesi  
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