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Education Information

Doctorate, The Pennsylvania State University, Materials Science And Engineering, United States Of America 1997 - 2000

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, Turkey 1992 - 1995

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, Turkey 1987 - 1992

Foreign Languages

English, C1 Advanced

Dissertations

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

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2010 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2005 - 2010

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2001 - 2005

Academic and Administrative Experience

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Metalurji Ve Malzeme Mühendisliği Bölümü,

2013 - Continues

Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - Continues

Head of Department, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Nanobilim ve Nanoteknoloji, 2011 - Continues

Director of The Institution, Eskisehir Osmangazi University, Metalurji Enstitüsü, 2015 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of MoS₂/Graphene Hetero-Film Photocatalyst and Li-Oxygen Battery Application**
Çelt A. C., Çayırı Can M., Özden R. C., Lökçü E., Anik M.
CHEMSELECTROCHEM, pp.1-6, 2025 (SCI-Expanded)
- II. **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, vol.240, 2024 (SCI-Expanded)
- III. **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, vol.8, no.1, 2024 (SCI-Expanded)
- IV. **Photocatalytic Efficiency of g-C₃N₄-N₄/Graphene Nanocomposites in the Photo-Assisted Charging of the Li-Ion Oxygen Battery**
Kaçar N., Çayırı M., Özden R. C., Lökçü E., Anik M.
ACS OMEGA, vol.8, no.48, pp.46227-46235, 2023 (SCI-Expanded)
- V. **Ultrasound-assisted synthesis of rGO/SiO₂-based nanosheets and their electrochemical performances in Li-ion batteries**
Lökçü E., CAN S., Anik M.
Turkish Journal of Chemistry, vol.47, no.2, pp.495-503, 2023 (SCI-Expanded)
- VI. **Photoassisted Charging of Li-Ion Oxygen Batteries Using g-C₃N₄/rGO Nanocomposite Photocatalysts**
LÖKÇÜ E., Kaçar N., ÇAYIRLI M., ÖZDEN R. C., ANIK M.
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.30, pp.34583-34592, 2022 (SCI-Expanded)
- VII. **Effect of rGO loading on the electrochemical performance of Li₂₂Si₅/rGO composite anodes for lithium-ion batteries**
Çelikbilek Z., CAN S., LÖKÇÜ E., ANIK M.
International Journal of Energy Research, vol.46, no.2, pp.1137-1145, 2022 (SCI-Expanded)
- VIII. **Electrochemical hydrogen storage properties of mechanically alloyed Mg_{0.8}Ti_{0.2-x}Mn_xNi ($x = 1/4, 0, 0.025, 0.05, 0.1$) type alloys**
Küçükdeveci N., AKAY ERDOĞAN İ., BİNAL AYBAR A., ANIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.4, pp.2511-2519, 2022 (SCI-Expanded)
- IX. **Synthesis and electrochemical performance of lithium silicide based alloy anodes for Li-ion oxygen batteries**
LÖKÇÜ E., ANIK M.
International Journal of Hydrogen Energy, vol.46, pp.10624-10631, 2021 (SCI-Expanded)
- X. **Electrochemical Performance of (MgCoNiZn)(1-x)LixO High-Entropy Oxides in Lithium-Ion Batteries**
LÖKÇÜ E., Toparlı C., ANIK M.
ACS APPLIED MATERIALS & INTERFACES, vol.12, no.21, pp.23860-23866, 2020 (SCI-Expanded)
- XI. **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, vol.51, no.4, pp.422-431, 2020 (SCI-Expanded)
- XII. **Synthesis of La₂MgNi₉ hydrogen storage alloy in molten salt**
Durger N. B., ANIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.15, pp.8750-8756, 2020 (SCI-Expanded)
- XIII. **Corrosion and Wear Characteristics of Electroless Ni-P, Ni-P-W and Composite Ni-P-W/Al₂O₃ Coatings on AZ91 Sheet**
Tascı S., ÖZDEN R. C., ANIK M.
METALS AND MATERIALS INTERNATIONAL, vol.25, no.2, pp.313-323, 2019 (SCI-Expanded)
- XIV. **Dissolution Behavior of Electrodeposited Ni-W Alloys**
Adiguzel Z., ANIK M.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.54, no.2, pp.316-324, 2018 (SCI-Expanded)
- XV. **Direct synthesis of La-Mg-Ni-Co type hydrogen storage alloys from oxide mixtures**
BİNAL AYBAR A., ANIK M.
JOURNAL OF ENERGY CHEMISTRY, vol.26, no.4, pp.719-723, 2017 (SCI-Expanded)
- XVI. **Molten salt synthesis of La(Ni_{1-x}Cox)(5) (x=0, 0.1, 0.2, 0.3) type hydrogen storage alloys**
ANIK M., Hatırnaz N. B., BİNAL AYBAR A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.1, pp.361-368, 2016 (SCI-Expanded)
- XVII. **Synthesis of La₂Ni₇ hydrogen storage alloy by the electro-deoxidation technique**
ANIK M., BİNAL AYBAR A., Kucukdeveci N., Erken H., BAKSAN B., GAŞAN H., Hatırnaz N. B., LÖKÇÜ E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.5, pp.2248-2254, 2015 (SCI-Expanded)
- XVIII. **Synthesis of La-2(Ni_{1-x}Cox)(7) (x=0.05, 0.1, 0.2) Hydrogen Storage Alloys by the Electro-Deoxidation Technique**
ANIK M., BİNAL AYBAR A., Hatırnaz N. B., Ozdemir D.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.6, 2015 (SCI-Expanded)
- XIX. **Hydrogen storage characteristics of Ti₂Ni 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, vol.46, pp.51-55, 2014 (SCI-Expanded)
- XX. **Discharging characteristics of CoB nano powders**
ANIK M., Kucukdeveci N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.38, no.3, pp.1501-1509, 2013 (SCI-Expanded)
- XXI. **Charge/discharge characteristics of electroless CoB films**
ANIK M., Kucukdeveci N., Yilmaz A.
THIN SOLID FILMS, vol.527, pp.69-75, 2013 (SCI-Expanded)
- XXII. **Improvement of the electrochemical hydrogen storage performance of magnesium based alloys by various additive elements**
Anik M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.2, pp.1905-1911, 2012 (SCI-Expanded)
- XXIII. **Development of the high performance magnesium based hydrogen storage alloy**
ANIK M., Karanfil F., Kucukdeveci N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.1, pp.299-308, 2012 (SCI-Expanded)
- XXIV. **Effect of Titanium additive element on the discharging behavior of MgNi Alloy electrode**
Anik M.
International Journal of Hydrogen Energy, vol.36, no.23, pp.15075-15080, 2011 (SCI-Expanded)
- XXV. **Electrochemical hydrogen storage characteristics of Mg-Pd-Ni ternary alloys**
ANIK M., Ozdemir G., Kucukdeveci N.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.11, pp.6744-6750, 2011 (SCI-Expanded)
- XXVI. **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, vol.36, no.2, pp.1568-1577, 2011 (SCI-Expanded)
- XXVII. **Anodic reaction characteristics of tungsten in basic phosphate solutions**
Anik M.
Corrosion Science, vol.52, no.9, pp.3109-3117, 2010 (SCI-Expanded)
- XXVIII. **Corrosion characteristics of Alloy AZ63 in buffered neutral solutions**
ANIK M., Gunesdogdu I. M.
MATERIALS & DESIGN, vol.31, no.6, pp.3100-3105, 2010 (SCI-Expanded)
- XXIX. **Electrochemical hydrogen storage capacities of Mg₂Ni and MgNi alloys synthesized by mechanical alloying**
Anik M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.491, pp.565-570, 2010 (SCI-Expanded)
- XXX. **Electrochemical hydrogen storage performance of Mg-Ti-Zr-Ni alloys**
ANIK M., AKAY ERDOĞAN I., Oezdemir G., BAKSAN B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.24, pp.9765-9772, 2009 (SCI-Expanded)
- XXXI. **Improvement of the electrochemical hydrogen storage performance of Mg₂Ni by the partial replacements of Mg by Al, Ti and Zr**
Anik M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.486, pp.109-114, 2009 (SCI-Expanded)
- XXXII. **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, vol.34, no.13, pp.5449-5457, 2009 (SCI-Expanded)
- XXXIII. **pH-dependent anodic reaction behavior of tungsten in acidic phosphate solutions**
Anik M.
ELECTROCHIMICA ACTA, vol.54, no.15, pp.3943-3951, 2009 (SCI-Expanded)
- XXXIV. **Electrochemical hydrogen storage characteristics of Mg_{1.5}Al_{0.5-x}Zr_xNi (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, vol.34, no.6, pp.2692-2700, 2009 (SCI-Expanded)
- XXXV. **Effect of coating bath composition on the properties of electroless nickel-boron films**
ANIK M., Korpe E., Sen E.
SURFACE & COATINGS TECHNOLOGY, vol.202, no.9, pp.1718-1727, 2008 (SCI-Expanded)
- XXXVI. **Analysis of the electrochemical reaction behavior of alloy AZ91 by EIS technique in H₃PO₄/KOH buffered K₂SO₄ solutions**
Anik M., Celikten G.
CORROSION SCIENCE, vol.49, no.4, pp.1878-1894, 2007 (SCI-Expanded)
- XXXVII. **Effect of alloy microstructure on electroless NiP deposition behavior on Alloy AZ91**
Anik M., Korpe E.
SURFACE & COATINGS TECHNOLOGY, vol.201, no.8, pp.4702-4710, 2007 (SCI-Expanded)
- XXXVIII. **Effect of concentration gradient on the anodic behavior of tungsten**
Anik M.
CORROSION SCIENCE, vol.48, no.12, pp.4158-4173, 2006 (SCI-Expanded)
- XXXIX. **Dissolution kinetics of WO₃ in acidic solutions**
Anik M., Cansizoglu T.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.36, no.5, pp.603-608, 2006 (SCI-Expanded)
- XL. **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, vol.27, no.5, pp.347-355, 2006 (SCI-Expanded)
- XLI. **Selection of an oxidant for copper chemical mechanical polishing: Copper-iodate system**
Anik M.
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.35, no.1, pp.1-7, 2005 (SCI-Expanded)

- XLII. **Reduction characteristics of iodate ion on copper: Application to copper chemical mechanical polishing**
 Anik M.
 Journal of Applied Electrochemistry, vol.34, no.9, pp.963-969, 2004 (SCI-Expanded)
- XLIII. **Diffusion effect on the anodic reactions of tungsten**
 Anik M., Cansizglu T., Cevik S.
 TURKISH JOURNAL OF CHEMISTRY, vol.28, no.4, pp.425-439, 2004 (SCI-Expanded)
- XLIV. **Effect of pH on the anodic Behavior of tungsten**
 Anik M., Osseo-Asare K.
 JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.149, no.6, 2002 (SCI-Expanded)
- XLV. **Anodic Behavior of tungsten in H₃PO₄-K₂SO₄-H₂SO₄/KOH solutions**
 Anik M.
 TURKISH JOURNAL OF CHEMISTRY, vol.26, no.6, pp.915-924, 2002 (SCI-Expanded)
- XLVI. **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, vol.2, no.3, pp.143-144, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of H₂/Ar Ratio on the Photoanodic Currents of Graphene/MoS₂ Films**
 ÖZDEN R. C., ANIK M.
 The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.26, pp.718-722, 2023 (Scopus)
- II. **Glycine-Assisted Synthesis of High Surface Area (FeMnCrCoZn)₃₀₄ Microsheets**
 ÖZDEN R. C., ANIK M.
 The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.26, pp.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, vol.21, no.1, pp.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, vol.21, no.1, pp.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, vol.21, no.1, pp.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, vol.21, no.1, pp.316-320, 2022 (Scopus)
- VII. **Synthesis of rGO/g-C₃N₄ 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), vol.16, pp.47-51, 2021 (Peer-Reviewed Journal)
- VIII. **Synthesis and Electrochemical Performance of Spinel Crystal Structured ((FeNiCrMn)_{1-x}Cox)₃₀₄**

- (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), vol.16, pp.140-144, 2021 (Peer-Reviewed Journal)
- IX. Synthesis of Graphene/g-C₃N₄ 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), vol.16, pp.162-166, 2021 (Peer-Reviewed Journal)
- 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), vol.16, pp.77-81, 2021 (Peer-Reviewed Journal)
- 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), vol.16, pp.14-19, 2021 (Peer-Reviewed Journal)
- 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, vol.11, pp.48-52, 2020 (Peer-Reviewed Journal)
- 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), vol.11, pp.29-32, 2020 (Peer-Reviewed Journal)
- 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), vol.11, pp.53-56, 2020 (Peer-Reviewed Journal)
- 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, vol.11, pp.5-8, 2020 (Peer-Reviewed Journal)
- XVI. The Anode Performance of the Mg_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}Li_{0.1}Cu_{0.1}O High Entropy Oxide for Li-Ion Batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), vol.11, pp.136-140, 2020 (Peer-Reviewed Journal)
- XVII. SYNTESES AND ELECTROCHEMICAL PERFORMANCE OF THE (Mg_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}Li_{0.2})O HIGH ENTROPY OXIDE AS ANODE MATERIAL FOR Li-ION BATTERIES**
ANIK M., LÖKÇÜ E.
The Eurasia Proceedings of Science, Technology,Engineering Mathematics (EPSTEM), vol.7, pp.329-332, 2019 (Peer-Reviewed Journal)
- XVIII. Use of molten salt method in the synthesis of metal hydride electrode materials**
ANIK M.
The online journal of science and technology, vol.7, no.3, pp.164-168, 2017 (Peer-Reviewed Journal)
- XIX. Isıl İşlemin Akımsız Ni-B Kaplamanın Mikro-Yapısına, Korozyon Direncine Ve Sertliğine Etkisi**
ANIK M., BAKSAN B., KÖRPE E.

Papers Published in Refereed Scientific Meetings

- I. **MgTiMnZrNi Alaşımlarının Elektrokimyasal Hidrojen Depolama Performansları(Electrochemical Hydrogen Storage Performances of MgTiMnZrNi quaniry Alloys)**
KÜÇÜKDEVECİ N., AKAY ERDOĞAN I., BİNAL AYBAR A., BAYER ÖZTÜRK Z., ANIK M.
4. Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21), Nevşehir, Turkey, 28 May 2021
- II. **Microstructural and Electrochemical Properties of (Mg_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}Li_{0.1}Al_{0.1})O High Entropy Oxide Anode**
ÇAYIRLI M., CAN S., LÖKÇÜ E., ANIK M.
International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 May 2021
- III. **Synthesis and Characterization of rGO@SiO₂ Nanostructures for Li-Ion Batteries**
CAN S., ÇAYIRLI M., LÖKÇÜ E., ANIK M.
International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 May 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, Turkey, 29 October - 01 November 2020, vol.11, pp.5-8
- V. **The anode performance of the Mg_{0.2}Co_{0.2}Ni_{0.2}Zn_{0.2}Li_{0.1}Cu_{0.1}O high entropy oxide for Li-ion batteries**
LÖKÇÜ E., ÖZDEN R. C., ANIK M.
International conference on technology, engineering and science, Antalya, Turkey, 29 October - 01 November 2020, vol.11, pp.136-140
- VI. **Effect of deep cryogenik 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, Turkey, 29 October - 01 November 2020, vol.11, pp.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, Turkey, 29 October - 01 November 2020, vol.11, pp.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, Turkey, 29 October - 01 November 2020, vol.11, pp.29-32
- IX. **Synthesis of Li₂₂Si₅/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, Turkey, 21 - 25 October 2020, pp.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, Turkey, 21 - 25 October 2020, pp.9-12
- XI. **Synthesis and lithium storage properties of non-equiatomic MgNiCuZnCo high-entropy oxides**
ÇAYIRLI M., LÖKÇÜ E., ANIK M.

- XII. **Effect of Manganese Additive Element on Mg08Ti02Ni Ternary Hydrogen Storage Alloys**
KÜÇÜKDEVECİ N., BİNAL AYBAR A., AKAY ERDOĞAN I., ANIK M.
4. The International Conference on Material Science and Technology in Kızılıcahamam/Ankara, 18 - 20 October 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 April 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 April 2019
- XV. **Effects of Deep Cryogenic Treatment on the WearProperties of 52 CrMoV4 Steel**
ÖZDEN R. C., ANIK M., GAŞAN H.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE ENGINEERING, 9 - 12 May 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 September 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 October 2018
- XVIII. **Synthesis of La-Ni based hydrogen storage alloys by elektro-deoxidation**
ANIK M.
2nd international conference on innovations in natural science and engineering, 7 - 10 September 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 September 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 October 2017
- XXI. **Development of porous graphene based cathodes for Li-air batteries**
LÖKÇÜ E., ANIK M.
ICONTES 2017, 26 - 29 October 2017
- XXII. **Electrochemical hydrogen storage in nanostructures**
LÖKÇÜ E., ANIK M.
ICONTES 2017, 26 - 29 October 2017
- XXIII. **Characterization of electrotically synthesized carbon nanotubes as cathode for metal air batteries**
ANIK M., LÖKÇÜ E.
ICONTES 2017, 26 - 29 October 2017
- XXIV. **Synthesis of anode and cathode electrodes for Li-air batteries**
ANIK M., LÖKÇÜ E.
METAL 2017, 24 - 26 May 2017
- XXV. **Synthesis of La-Mg-Ni-Co/Carbon nantube composite hydrogen storage electrodes**
LÖKÇÜ E., ANIK M.
METAL 2017, 24 - 26 May 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, Turkey, 10 - 12 May 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, Turkey, 15 - 18 March 2017
- XXVIII. **Synthesis of CoB Nano-Powder as Electrode Material**
KÜÇÜKDEVECİ N., ANIK M.
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- XXIX. **Use of molten salt method in the synthesis of metal hydride electrode materials**
ANIK M.
2016 ISTEC, 13 - 15 July 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 October - 01 November 2016
- XXXI. **Corrosion characteristics of nanocrystalline Ni W electrolytic coating**
ADIGÜZEL Z., ANIK M.
EOROCORR 2016, 11 - 15 October 2016
- XXXII. **AZ91 Magnezyum Alaşımı Üzerine Yapılan Akımsız Ni-P-W / Al2O3 Kompozit Kaplamaya Uygulanan Isıl İşlemin Kaplamanın Korozyon Özelliklerine Etkisi**
TAŞÇI S., ÖZDEN R. C., ANIK M.
14th International Corrosion Symposium, 5 - 07 October 2016
- XXXIII. **Corrosion properties of Ni P W Al2O3 Electroless composite coatings on AZ91 magnesium alloy**
Taşçı S., ÖZDEN R. C., ANIK M.
18th international metallurgy and materials congress, 29 September - 01 October 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, Turkey, 6 - 08 April 2016, pp.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 May 2016
- XXXVI. **Synthesis and characterization of A2B7 type hydrogen storage alloys**
BİNAL AYBAR A., ANIK M.
IMSTEC 2016, 6 - 08 April 2016
- XXXVII. **Synthesis of cob nanopowder and determination of their electrode performances**
KÜÇÜKDEVECİ N., ANIK M.
IMSTEC 2016, 6 - 08 April 2016
- XXXVIII. **Electrode performances of electroless cob films**
KÜÇÜKDEVECİ N., ANIK M.
IMSTEC 2016, 6 - 08 April 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, Czech Republic, 25 - 27 May 2016, pp.1280-1284
- XL. **Synthesis of L NixCo_{1-x} 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, United Arab Emirates, 26 - 28 November 2015
- XLI. **Synthesis of La NixCo_{1-x} 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, United Arab Emirates, 26 - 28 November 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, Turkey, 7 - 09 September 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, Turkey, 7 - 09 September 2015
- XLIV. **Molten Salt Synthesis of La Ni Co Hydrogen Storage Alloys**
ANIK M., BİNAL AYBAR A., Başak H., Özdemir D.
METAL 2015, Brno, Czech Republic, 3 - 05 June 2015, pp.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 October 2014
- XLVI. **Selection of an oxidant for copper CMP**
ANIK M.
205th ECS Meeting, San Antonio, TX, United States Of America, 9 - 13 May 2004, pp.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, Turkey, 27 - 28 May 2004, pp.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, United States Of America, 12 - 17 October 2003, vol.2003, pp.227-240

Supported Projects

- BAYKUL M. C., LÖKÇÜ E., ANIK M., Project Supported by Higher Education Institutions, Fotovoltaik Panel İle Şarj Edilebilen Li-Hava Pilinin Geliştirilmesi, 2019 - 2022
- ANIK M., Project Supported by Higher Education Institutions, Magnezyum Esash Elektrokimyasal Hidrojen Depolama Alaşımının Geliştirilmesi, 2013 - 2014
- ANIK M., Project Supported by Higher Education Institutions, Yüksek Performanslı Elektrokimyasal Depolam Alaşımının Geliştirilmesi, 2013 - 2014

Metrics

- Publication: 113
Citation (WoS): 1123
Citation (Scopus): 1509
H-Index (WoS): 20
H-Index (Scopus): 20

Non Academic Experience

- Eskişehir Osmangazi Üniversitesi, Öğretim Üyesi
Eskişehir Osmangazi Üniversitesi, Araştırma Görevlisi
Orta Doğu Teknik Üniversitesi, Araştırma Görevlisi