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Kişisel Bilgiler

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Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Carbon coated electric arc furnace dust prepared by one-pot pyrolysis: An efficient, low carbon footprint electrode material for lithium-ion batteries**
Karahan B. D.
MATERIALS CHEMISTRY AND PHYSICS, cilt.287, 2022 (SCI-Expanded)

II. **Upcycling of industrial iron scale waste for reutilization as anode material in lithium ion batteries**
Gulcan M. F. , Karahan B. D.
MATERIALS CHEMISTRY AND PHYSICS, cilt.276, 2022 (SCI-Expanded)

III. **Corrosion Behavior of Ni-Fe-Mo Deposits Obtained under Different Electrodeposition Conditions**
Solmaz R., Karahan B. D.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, cilt.30, sa.8, ss.5593-5602, 2021 (SCI-Expanded)

IV. **Modification of the Cu current collector by magnetron sputtering to improve the cycle performance of MxOy (M:Ni,Mn,Co) anodes for lithium ion batteries**
Solmaz R., Karahan B. D.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.872, 2021 (SCI-Expanded)

V. **Effect of vinylene carbonate as electrolyte additive for Mn2O3/NiMnO3 anodes of lithium-ion batteries**
Solmaz R., Karahan B. D.
IONICS, cilt.27, sa.7, ss.2813-2824, 2021 (SCI-Expanded)

VI. **Designing carbon-supported Fe2O3 anodes for lithium ion batteries**
Gulcan M. F. , Karahan B. D.
JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.51, sa.6, ss.917-931, 2021 (SCI-Expanded)

VII. **ZrO2 coating via e-beam evaporation on PE separators for lithium-ion batteries**
Sivlin D., Unal F., Karahan B. D. , Kazmanli K., Keles Ö.
IONICS, cilt.27, sa.2, ss.577-586, 2021 (SCI-Expanded)

VIII. **Leaching of iron and chromium from an indigenous ferro chromium alloy via a rotary evaporator: optimum conditions determination and kinetic analysis**
Gulcan M. F. , Karahan B. D. , Gürmen S.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, cilt.9, sa.6, ss.14103-14115, 2020 (SCI-Expanded)

IX. **Superlattice-structured films by magnetron sputtering as new era electrodes for advanced lithium-ion batteries**
Keleş Ö., Karahan B. D. , Eryilmaz L., Amine R., Abouimrane A., Chen Z., Zuo X., Zhu Z., Al-Hallaj S., Amine K.

NANO ENERGY, cilt.76, 2020 (SCI-Expanded)

X. **Fabrication of nickel manganese cobalt oxide (NMCO) anodes for lithium-ion batteries via hydrothermal process**
Solmaz R., Karahan B. D. , Keleş Ö.
JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.50, sa.10, ss.1079-1089, 2020 (SCI-Expanded)

XI. **A Study on the Corrosion Behavior of 7072/3004/7072 Clad Aluminum Alloy in Different Media**
Tunc İ., Karahan B. D. , Keles Ö.
Journal of Materials Engineering and Performance, cilt.29, sa.7, ss.4506-4514, 2020 (SCI-Expanded)

XII. **Nickel-framed film with alternate layers of nickel and silicon for high performance lithium ion battery anodes**
Karahan B. D.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.823, 2020 (SCI-Expanded)

XIII. **Characterization and corrosion studies of ternary Zn-Ni-Sn alloys**
Solmaz R., Karahan B. D.
INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, cilt.27, sa.1, ss.74-82, 2020 (SCI-Expanded)

XIV. **Engineering self-standing Si-Mo-O based nanostructure arrays as anodes for new era lithium-ion batteries**
Karahan B. D. , Amine K.
JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.49, sa.7, ss.671-680, 2019 (SCI-Expanded)

XV. **Molybdenum Oxide and Hybride Films as Anodes for Lithium Ion Batteries**
Karahan B. D. , Yagsi C., Keles Ö.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, cilt.19, sa.2, ss.941-949, 2019 (SCI-Expanded)

XVI. **Si-Cu alloy nanowires grown by oblique angle deposition as a stable negative electrode for Li-ion batteries**
Polat B. D. , Keles O., CHEN Z. H. , AMINE K.
JOURNAL OF MATERIALS SCIENCE, cilt.51, sa.13, ss.6207-6219, 2016 (SCI-Expanded)

XVII. **Compositionally-graded silicon-copper helical arrays as anodes for lithium-ion batteries**
Polat D. B. , Keleş Ö., AMINE K.
JOURNAL OF POWER SOURCES, cilt.304, ss.273-281, 2016 (SCI-Expanded)

XVIII. **SiAg film by magnetron sputtering for high reversible lithium ion storage anodes**
Polat B. D. , ERYILMAZ O. L. , Keleş Ö.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.654, ss.363-370, 2016 (SCI-Expanded)

XIX. **Functionally Graded Si Based Thin Films as Negative Electrodes for Next Generation Lithium Ion Batteries**
Polat B. D. , Keleş Ö.
ELECTROCHIMICA ACTA, cilt.187, ss.293-299, 2016 (SCI-Expanded)

XX. **The Effects of Film Thickness and Evaporation Rate on Si-Cu Thin Films for Lithium Ion Batteries**
Polat B. D. , Keleş Ö.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, cilt.15, sa.12, ss.9788-9796, 2015 (SCI-Expanded)

XXI. **Improving Si Anode Performance by Forming Copper Capped Copper-Silicon Thin Film Anodes for Rechargeable Lithium Ion Batteries**
POLAT B. D. , Keleş Ö.
ELECTROCHIMICA ACTA, cilt.170, ss.63-71, 2015 (SCI-Expanded)

XXII. **High capacity anode with well-aligned, ordered NISI nano-columnar arrays**
Polat B. D. , Eryilmaz O. L. , Chen Z., Keleş Ö., Amine K.
NANO ENERGY, cilt.13, ss.781-789, 2015 (SCI-Expanded)

XXIII. **Multi-layered Cu/Si nanorods and its use for lithium ion batteries**
Polat B. D. , Keleş Ö.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.622, ss.418-425, 2015 (SCI-Expanded)

XXIV. **Well-aligned, ordered, nanocolumnar, Cu-Si thin film as anode material for lithium-ion batteries**

Polat D. B. , Keleş Ö., AMINE K.
JOURNAL OF POWER SOURCES, cilt.270, ss.238-247, 2014 (SCI-Expanded)

XXV. **Use of Multilayered Ni-Sn and Ni-Sn-C Thin Film Anodes for Lithium-Ion Batteries**
Polat B. D. , Abouimrane A., Sezgin N., Keles O., Amine K.
ELECTROCHIMICA ACTA, cilt.135, ss.585-593, 2014 (SCI-Expanded)

XXVI. **Nanocolumnar Structured Porous Cu-Sn Thin Film as Anode Material for Lithium-Ion Batteries**
Polat D. B. , LU J., ABOUIMRANE A., Keleş Ö., AMINE K.
ACS APPLIED MATERIALS & INTERFACES, cilt.6, sa.14, ss.10877-10885, 2014 (SCI-Expanded)

XXVII. **A nano-architectured porous electrode assembly of copper rich Cu6Sn5 thin film for rechargeable lithium batteries**
Polat B. D. , Sezgin N., Keleş Ö., Kazmanli K., Abouimrane A., Amine K.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.553, ss.204-207, 2013 (SCI-Expanded)

XXVIII. **Generation of a Surface Pattern Having Conical Surface Features by Anodic Polarization of Aluminum**
Urgen M. K. , Keleş Ö., POLAT B. D. , BAYATA F.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.159, sa.9, 2012 (SCI-Expanded)

Desteklenen Projeler

Karahan B. D. P. , Gürmen S., TÜBİTAK Projesi, Yerli Fe-Cr Alaşımlarından Al2O3 İle Dekore Edilmiş, Metal Katkılı Fe2O3-Cr2O3 Kompozit Tozlarının Lityum İyon Piller İçin Anot Malzemesi Olarak Geliştirilmesi, 2019 - 2021

Metrikler

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