

Res. Asst. TUNCAY ERDİL

Personal Information

Office Phone: [+90 312 210 5829](tel:+903122105829)

Email: tunerdil@metu.edu.tr

Web: <https://avesis.metu.edu.tr/e217065>

International Researcher IDs

ScholarID: GqT_MOMAAAAJ

ORCID: 0000-0002-5187-5902

Publons / Web Of Science ResearcherID: GRU-3089-2022

ScopusID: 57880883400

Yoksis Researcher ID: 385121

Research Areas

Metallurgical and Materials Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **B-Site Doping Boosts the OER and ORR Performance of Double Perovskite Oxide as Air Cathode for Zinc-Air Batteries**
Ozgun Ç., Erdil T., Geyikci U., Yildiz İ., Lokcu E., Toparlı Ç.
CHEMPHYSICHEM, vol.25, no.22, 2024 (SCI-Expanded)
- II. **Earth-Abundant Divalent Cation High-Entropy Spinel Ferrites as Bifunctional Electrocatalysts for Oxygen Evolution and Reduction Reactions**
ERDİL T., ÖZGÜR Ç., Geyikci U., LÖKÇÜ E., TOPARLI Ç.
ACS APPLIED ENERGY MATERIALS, vol.7, no.18, pp.7775-7786, 2024 (SCI-Expanded)
- III. **Engineering Oxygen Vacancies in (FeCrCoMnZn)₃O_{4-δ} High Entropy Spinel Oxides Through Altering Fabrication Atmosphere for High-Performance Rechargeable Zinc-Air Batteries**
Özgür Ç., Erdil T., Geyikci U., Okuyucu C., Lökçü E., Kalay Y. E., Toparlı Ç.
Global Challenges, vol.8, no.1, 2024 (SCI-Expanded)
- IV. **B-Site Effect on High-Entropy Perovskite Oxide as a Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries**
Erdil T., Toparlı Ç.
ACS APPLIED ENERGY MATERIALS, vol.6, no.21, pp.11255-11267, 2023 (SCI-Expanded)
- V. **Facile Synthesis and Origin of Enhanced Electrochemical Oxygen Evolution Reaction Performance of 2H-Hexagonal Ba₂CoMnO_{6-δ} as a New Member in Double Perovskite Oxides**
Erdil T., Lökçü E., Yildiz İ., Okuyucu C., Kalay Y. E., Toparlı Ç.
ACS OMEGA, vol.7, no.48, pp.44147-44155, 2022 (SCI-Expanded)
- VI. **Effect of synthesis environment on the electrochemical properties of (FeMnCrCoZn)₃O₄ high-entropy oxides for Li-ion batteries**
Bayraktar D. O., LÖKÇÜ E., ÖZGÜR Ç., Erdil T., TOPARLI Ç.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22124-22133, 2022 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. NANO POROUS HIGH ENTROPY OXIDE ELECTROCATALYST FOR HYDROGEN PRODUCTION

ÖZGÜR Ç., TOPARLI Ç., ERDİL T., LÖKÇÜ E.

3rd INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE-2023, İstanbul, Turkey, 11 -
13 October 2023