

## Asst. Prof. HARUN EROL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: HGC-2429-2022

ScopusID: 55836609800

Yoksis Researcher ID: 117331

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2010 - 2016

Undergraduate Minor, Erciyes University, Fen Fakültesi, Matematik, Turkey 2008 - 2010

Undergraduate, Erciyes University, Fen Fakültesi, Fizik , Turkey 2004 - 2008

### Dissertations

Doctorate, Al-Zn alaşımında bileşim ve sıcaklığın ısısal iletkenliğe, elektriksel iletkenliğe ve katı-sıvı yüzey enerjisine etkisi, Erciyes University, Fen Bilimleri Enstitüsü, FİZİK, 2016

### Research Areas

Metallurgical and Materials Engineering, Physics

### Academic Titles / Tasks

Assistant Professor, Kayseri University, Teknik Bilimler Meslek Yüksekokulu, Makine Ve Metal Teknolojileri Bölümü, 2022 - Continues

Lecturer PhD, Kayseri University, Teknik Bilimler Meslek Yüksekokulu, Makine Ve Metal Teknolojileri Bölümü, 2021 - 2022

Research Assistant PhD, Cankiri Karatekin University, Faculty Of Science, Department Of Physics, 2016 - 2021

Research Assistant, Erciyes University, Fen Fakültesi, Fizik , 2012 - 2016

Research Assistant, Cankiri Karatekin University, Faculty Of Arts And Sciences, Department Of Physics, 2010 - 2012

### Academic and Administrative Experience

Assistant Director of Vocational School, Kayseri University, 2023 - Continues

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

- I. **Investigation of the AlB<sub>2</sub> intermetallic phases effect on Al–Zn–B alloys' electrochemical performance in Al–air battery anodes**  
Kahveci O., Kaya M. F., Erol H.  
APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, vol.129, no.324, pp.1-14, 2023 (SCI-Expanded)
- II. **Determination of solid-liquid interfacial energy of solid Mg<sub>2</sub>Si intermetallic phase in equilibrium with liquid AlSiMg eutectic solution in AlSiMg energy storage alloy**  
KAHVECİ O., EROL H., Joban O. T. J., Gunduz M.  
INTERMETALLICS, vol.135, 2021 (SCI-Expanded)
- III. **Effect of low B addition on Al-Zn alloy's hydrogen production performance**  
KAYA M. F., KAHVECİ O., Erol H., Akkaya A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.29, pp.15192-15202, 2021 (SCI-Expanded)
- IV. **Dependency of the thermal and electrical conductivity on temperatures and compositions of Zn in the Al-Zn alloys**  
Erol H., Cadirli E., Erol E. A., Gunduz M.  
INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, vol.32, no.2, pp.95-105, 2019 (SCI-Expanded)
- V. **Effect of Growth Velocity and Zn Content on Microhardness in Directionally Solidified Al-Zn Alloys**  
Acer E., Cadirli E., Erol H., KAYA H., Sahin M., Gunduz M.  
MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS, vol.21, no.6, 2018 (SCI-Expanded)
- VI. **Effects of Growth Rates and Compositions on Dendrite Arm Spacings in Directionally Solidified Al-Zn Alloys**  
Acer E., Cadirli E., Erol H., KAYA H., Gunduz M.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.12, pp.5911-5923, 2017 (SCI-Expanded)
- VII. **Effect of Growth Rate on the Microstructure and Microhardness in a Directionally Solidified Al-Zn-Mg Alloy**  
Acer E., Cadirli E., Erol H., Gunduz M.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.6, pp.3040-3051, 2016 (SCI-Expanded)
- VIII. **Effect of heat treatment on the microstructures and mechanical properties of Al-5.5Zn-2.5Mg alloy**  
Acer E., Cadirli E., Erol H., Kirindi T., Gunduz M.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.662, pp.144-156, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Bi Katkılamanın Al-B İkilili Alaşımının Hidrojen Üretim Performansına Etkisinin İncelenmesi**  
Erol H.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.38, no.3, pp.620-627, 2022 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Solid-liquid interfacial energy of Al-Zn solid-solutions in equilibrium with Al-Zn liquid**  
Yilmaz E., Erol H., Acer Erol E., Gündüz M.  
Joint 5th International Conference on Advances in Solidification Processes, ICASP 2019 and 5th International Symposium on Cutting Edge of Computer Simulation of Solidification, Casting and Refining, CSSCR 2019, Salzburg, Austria, 17 - 21 June 2019, vol.529
- II. **Tensile Strength of Al-Zr Overhead Line Conductors**  
EROL H., Tecer H., Acer E., Kadioglu C., Gunduz M.  
6th International Light Metals Technology Conference (LMT 2013), Old Windsor, United Kingdom, 24 - 26 July

2013, vol.765, pp.793-794

**III. Relationship Between Growth Rates and Dendritic Microstructure Parameters In Al-5wt. Zn Binary Alloy**

Acer E., EROL H., Gunduz M.

6th International Light Metals Technology Conference (LMT 2013), Old Windsor, United Kingdom, 24 - 26 July

2013, vol.765, pp.215-219

**IV. Effect of Aging on Conductivity of Heat Resistant Overhead Line Conductors**

Tecer H., Acer E., EROL H., Gunduz M.

6th International Light Metals Technology Conference (LMT 2013), Old Windsor, United Kingdom, 24 - 26 July

2013, vol.765, pp.783-784

## **Metrics**

Publication: 14

Citation (WoS): 88

Citation (Scopus): 101

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