

Dr. Öğr. Üyesi EMRE ÇINKILIÇ

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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ScopusID: 55768061500

Yoksis Araştırmacı ID: 349786

Eğitim Bilgileri

Doktora, Ohio State University {Ohio}, Amerika Birleşik Devletleri 2013 - 2019

Yüksek Lisans, Ohio State University {Ohio}, Amerika Birleşik Devletleri 2011 - 2013

Lisans, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Türkiye 2004 - 2009

Yabancı Diller

İngilizce, C2 Ustalık

Yaptığı Tezler

Doktora, Alloy Design and Precipitation Modeling of High Fe Concentration Recycled Cast Aluminum Alloys for Structural Applications, Ohio State University {Ohio}, 2019

Yüksek Lisans, Comparison of Interface State Spectroscopy Techniques by Characterizing Dielectric - InGaAs Interfaces, Ohio State University {Ohio}, 2013

Araştırma Alanları

Malzeme Testi ve Kontrolü, Fiziksel Özellikler, İntermetalikler, Fiziksel Metalurji, Isıl İşlem, Malzeme Karakterizasyonu, Metalik Malzemeler, Yapı-Özellik İlişkisi, Demir Dışı Metal Üretimi, Geri Dönüşüm Süreçleri

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Hakkari Üniversitesi, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, 2021 - Devam Ediyor

Araştırma Görevlisi, Ohio State University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği, 2013 - 2019

Araştırma Görevlisi, Ohio State University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, 2011 - 2013

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. The beneficial effect of Ce additions to high Fe-containing secondary Al-Si-Mg cast alloys

Moodispaw M. P., Miao J., ÇİNKİLİÇ E., Luo A. A.

Journal of Alloys and Compounds, cilt.1009, 2024 (SCI-Expanded)

- II. **Thermodynamic Modeling of Solid Flux Interactions with Molten Aluminum**
Moodispaw M. P., ÇİNKİLİÇ E., Luo A. A.
International Journal of Metalcasting, cilt.18, sa.4, ss.2846-2852, 2024 (SCI-Expanded)
- III. **The Beneficial Effect of Iron in Aluminum-Cerium-Based Cast Alloys**
Moodispaw M. P., ÇİNKİLİÇ E., Miao J., Luo A. A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, cilt.55, sa.5, ss.1351-1362, 2024 (SCI-Expanded)
- IV. **Strontium Effects on the Formation of Iron-Intermetallic Phases in Secondary Al-9Si-0.6Fe Alloys**
Balasubramani N., Moodispaw M., ÇİNKİLİÇ E., Miao J., Luo A. A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, cilt.55, sa.2, ss.550-568, 2024 (SCI-Expanded)
- V. **Optimization of T5 heat treatment in high pressure die casting of Al-Si-Mg-Mn alloys by using an improved Kampmann-Wagner numerical (KWN) model**
Zhang J., ÇİNKİLİÇ E., Huang X., Wang G. G., Liu Y. (., Weiler J., Luo A. A.
Materials Science and Engineering: A, cilt.865, 2023 (SCI-Expanded)
- VI. **A New Recycled Al-Si-Mg Alloy for Sustainable Structural Die Casting Applications**
ÇİNKİLİÇ E., Moodispaw M., Zhang J., Miao J., Luo A. A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, cilt.53, sa.8, ss.2861-2873, 2022 (SCI-Expanded)
- VII. **On the interactions between molten aluminum and high entropy alloy particles during aluminum matrix composite processing**
Huang X., Zhang J., Miao J., ÇİNKİLİÇ E., Wang Q., Luo A. A.
Journal of Alloys and Compounds, cilt.895, 2022 (SCI-Expanded)
- VIII. **Modeling precipitation hardening and yield strength in cast Al-Si-Mg-Mn alloys**
ÇİNKİLİÇ E., Yan X., Luo A. A.
Metals, cilt.10, sa.10, ss.1-14, 2020 (SCI-Expanded)
- IX. **Predicting gas and shrinkage porosity in solidification microstructure: A coupled three-dimensional cellular automaton model**
Gu C., Ridgeway C. D., ÇİNKİLİÇ E., Lu Y., Luo A. A.
Journal of Materials Science and Technology, cilt.49, ss.91-105, 2020 (SCI-Expanded)
- X. **Three-dimensional cellular automaton simulation of coupled hydrogen porosity and microstructure during solidification of ternary aluminum alloys**
Gu C., Lu Y., Ridgeway C. D., ÇİNKİLİÇ E., Luo A. A.
Scientific Reports, cilt.9, sa.1, 2019 (SCI-Expanded)
- XI. **A Formation Map of Iron-Containing Intermetallic Phases in Recycled Cast Aluminum Alloys**
ÇİNKİLİÇ E., Ridgeway C., Yan X., Luo A.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, cilt.50, sa.12, ss.5945-5956, 2019 (SCI-Expanded)
- XII. **Predicting grain structure in high pressure die casting of aluminum alloys: A coupled cellular automaton and process model**
Gu C., Lu Y., ÇİNKİLİÇ E., Miao J., Klarner A., Yan X., Luo A. A.
Computational Materials Science, cilt.161, ss.64-75, 2019 (SCI-Expanded)
- XIII. **Investigation of the non-equilibrium solidification microstructure of a Mg-4Al-2RE (AE42) alloy**
Sun W., Shi X., ÇİNKİLİÇ E., Luo A. A.
Journal of Materials Science, cilt.51, sa.13, ss.6287-6294, 2016 (SCI-Expanded)
- XIV. **Impact of proton irradiation on deep level states in n-GaN**
Zhang Z., Arehart A., ÇİNKİLİÇ E., Chen J., Zhang E., Fleetwood D., Schrimpf R., McSkimming B., Speck J., Ringel S.
Applied Physics Letters, cilt.103, sa.4, 2013 (SCI-Expanded)
- XV. **Interface trap characterization of atomic layer deposition Al 2O₃/GaN metal-insulator-**

semiconductor capacitors using optically and thermally based deep level spectroscopies

Jackson C. M., Arehart A. R., ÇİNKİLİÇ E., McSkimming B., Speck J. S., Ringel S. A.

Journal of Applied Physics, cilt.113, sa.20, 2013 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. Characterization and modeling of concurrent precipitation in Mg-Al-Sn alloys using an improved Kampmann-Wagner numerical (KWN) model**
Miao J., Zhang C., Klarner A. D., Zhang J., ÇİNKİLİÇ E., Zhang F., Luo A. A.
Materialia, cilt.21, 2022 (Scopus)

Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. Effect of Vacuum Level on Porosity and Mechanical Properties of Aluminum Alloys in High Pressure Die Casting**
Trometer N., ÇİNKİLİÇ E., Godlewski L., Prabhu E., Luo A.
MS&T21 Materials Science and Technology, Columbus, Amerika Birleşik Devletleri, 17 Kasım 2021
- II. Increasing Melt Efficiency and Secondary Alloy Usage in Aluminum Die Casting**
Luo A., ÇİNKİLİÇ E., Moodispaw M., Zhang J., Yan X., Caron F., Branclean P.
Die Casting Congress and Exposition, Indianapolis, Amerika Birleşik Devletleri, 04 Ekim 2021
- III. Melt-Refractory Interactions During Aluminum Melt Processing**
ÇİNKİLİÇ E., Moodispaw M., Luo A., Chu Y., Yan X., Caron F.
Metalcasting Congress 2021, Amerika Birleşik Devletleri, 12 Nisan 2021
- IV. Thermodynamic Modeling of Solid Flux Interactions with Molten Aluminum**
Moodispaw M., ÇİNKİLİÇ E., Luo A.
Metalcasting Congress 2021, Amerika Birleşik Devletleri, 12 Nisan 2021
- V. Use of CALPHAD Modeling in Controlling the Microstructure of Cast Aluminum Alloys**
ÇİNKİLİÇ E., Klarner A., Sun W., Luo A.
American Foundry Society 119th Metalcasting Congress, Columbus, Amerika Birleşik Devletleri, 20 Nisan 2015

Metrikler

Yayın: 21

Atf (Scopus): 377

H-İndeks (Scopus): 11

Akademi Dışı Deneyim

Şirket, Alcoa, Alcoa Technical Center, Co-op