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Education Information

Doctorate, Iowa State University, College of Engineering, Materials Science and Engineering, United States Of America
2005 - 2009

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2000 - 2004

Foreign Languages

English, C2 Mastery

Research Areas

Intermetallics, Physical Metallurgy, Thermal Treatment, Material Characterization, Metallic Materials, Non-Ferrous Alloy Production, Principles of Foundry Technology, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Structure of Liquids and Solids; Crystallography, Surfaces, Interfaces, Thin Films and Nanosystems

Academic Titles / Tasks

Associate Professor, Marmara University, Faculty Of Engineering, Metallurgical And Material Engineering, 2021 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Decoupled versus coupled growth dynamics of an irregular eutectic alloy**
Mohagheghi S., Bottin-Rousseau S., Akamatsu S., Serefogu M.
SCRIPTA MATERIALIA, vol.189, pp.11-15, 2020 (Journal Indexed in SCI)
- II. **On the Growth Dynamics of Nearly-Locked Grain in the Three-Phase In-Bi-Sn Eutectic System**
Mohagheghi S., Serefogu M.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.50A, no.11, pp.5221-5233, 2019 (Journal Indexed in SCI)
- III. **Crystal orientation relationships in ternary eutectic Al-Al₂Cu-Ag₂Al**
Steinmetz P., Dennstedt A., Serefogu M., Sargin I., Genau A., Hecht U.
ACTA MATERIALIA, vol.157, pp.96-105, 2018 (Journal Indexed in SCI)

- IV. **Quasi-isotropic and locked grain growth dynamics in a three-phase eutectic system**
Mohagheghi S., Serefoglu M.
ACTA MATERIALIA, vol.151, pp.432-442, 2018 (Journal Indexed in SCI)
- V. **Dynamics of spacing adjustment and recovery mechanisms of ABAC-type growth pattern in ternary eutectic systems**
Mohagheghi S., Serefoglu M.
JOURNAL OF CRYSTAL GROWTH, vol.470, pp.66-74, 2017 (Journal Indexed in SCI)
- VI. **Stability of three-phase ternary-eutectic growth patterns in thin sample**
Bottin-Rousseau S., ŞEREFÖĞLÜ KAYA M., Yuceturk S., Faivre G., Akamatsu S.
ACTA MATERIALIA, vol.109, pp.259-266, 2016 (Journal Indexed in SCI)
- VII. **Lamellar eutectic growth with anisotropic interphase boundaries: Experimental study using the rotating directional solidification method**
Akamatsu S., Bottin-Rousseau S., ŞEREFÖĞLÜ KAYA M., Faivre G.
ACTA MATERIALIA, vol.60, no.6-7, pp.3206-3214, 2012 (Journal Indexed in SCI)
- VIII. **A theory of thin lamellar eutectic growth with anisotropic interphase boundaries**
Akamatsu S., Bottin-Rousseau S., ŞEREFÖĞLÜ KAYA M., Faivre G.
ACTA MATERIALIA, vol.60, no.6-7, pp.3199-3205, 2012 (Journal Indexed in SCI)
- IX. **Control and Interpretation of Finite-Size Effects and Initial Morphology in Directional Solidification of a Rod-Type Eutectic Transparent Metal-Analog**
Napolitano R. E. , ŞEREFÖĞLÜ KAYA M.
JOM, vol.64, no.1, pp.68-75, 2012 (Journal Indexed in SCI)
- X. **Phase-field investigation of rod eutectic morphologies under geometrical confinement**
ŞEREFÖĞLÜ KAYA M., Napolitano R. E. , Plapp M.
PHYSICAL REVIEW E, vol.84, no.1, 2011 (Journal Indexed in SCI)
- XI. **On the role of initial conditions in the selection of eutectic onset mechanisms in directional growth**
ŞEREFÖĞLÜ KAYA M., Napolitano R. E.
ACTA MATERIALIA, vol.59, no.3, pp.1048-1057, 2011 (Journal Indexed in SCI)
- XII. **Onset of rod eutectic morphology in directional solidification**
ŞEREFÖĞLÜ KAYA M., Napolitano R. E.
INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, vol.22, no.1-4, pp.228-231, 2009 (Journal Indexed in SCI)
- XIII. **On the selection of rod-type eutectic morphologies: Geometrical constraint and array orientation**
ŞEREFÖĞLÜ KAYA M., Napolitano R. E.
ACTA MATERIALIA, vol.56, no.15, pp.3862-3873, 2008 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effects of interphase boundary anisotropy on the three-phase growth dynamics in the beta(In) - In₂Bi - gamma(Sn) ternary-eutectic system**
Mohagheghi S., Hecht U., Bottin-Rousseau S., Akamatsu S., Faivre G., Serefoglu M.
Joint Conference of 5th International Conference on Advances in Solidification Processes (ICASP) and 5th International Symposium on Cutting Edge of Computer Simulation of Solidification, Casting and Refining (CSSCR), Salzburg, Austria, 17 - 21 June 2019, vol.529
- II. **Dynamics of rod eutectic growth patterns in confined geometry**
ŞEREFÖĞLÜ KAYA M., Bottin-Rousseau S., Akamatsu S., Faivre G.
3rd International Conference on Advances in Solidification Processes, Netherlands, 7 - 10 June 2011, vol.27
- III. **The surface tension force of anisotropic interphase boundaries is perpendicular to the solidification front during eutectic growth**
Bottin-Rousseau S., ŞEREFÖĞLÜ KAYA M., Akamatsu S., Faivre G.
3rd International Conference on Advances in Solidification Processes, Netherlands, 7 - 10 June 2011, vol.27

Citations

Total Citations (WOS):186

h-index (WOS):7