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DECEMBER 2023

Additive Manufacturing for High Temperature Energy Systems: Harvesting Material Data and Modeling

Editors: Isabella van Rooyen, Pacific Northwest National Laboratory; Xiaoyuan Lou, Purdue University; Kumar Sridharan, University of Wisconsin-Madison; Subhashish Meher, Pacific Northwest National Laboratory; Yi Xie, Purdue University

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"Reactive Synthesis in Additive Manufacturing of an Ultrahigh Temperature MoSiB Alloy," **Zahabul Islam**, et al.

"Microstructure and Temperature Dependent Indentation Response of Additively Manufactured Precipitation-Strengthened $Al_{0.3}Ti_{0.2}Co_{0.7}CrFeNi_{1.7}$ High Entropy Alloy," **Mohan Sai Kiran Kumar Yadav Nartu**, et al.

"Microstructure, Mechanical Properties and Oxidation Behavior of Refractory Multi-Principal Element Alloys by Laser Remelting and Conventional Manufacturing," **Visharad Jalan**, et al.

"Microstructure and Residual Stress in Functionally Graded 316L Stainless Steel/Inconel 625 alloys Fabricated by Direct Energy Deposition," **Xinchang Zhang**, et al.

"Microstructural Characterization of the Transition in SS316L and IN625 Bimetallic Fabricated Using Hybrid Additive Manufacturing," **Christopher J. Bettencourt**, et al.

Advanced Functional and Structural Thin Films and Coatings

Editors: Nugehalli Ravindra, New Jersey Institute of Technology; Adele Carrado, University of Strasbourg; Karine Mougine, Mulhouse Materials Science Institute; Ramana Chintalapalle, University of Texas-El Paso; Gerald Ferblantier, University of Strasbourg

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"Fabrication and Performance Evaluation of Schottky Diode Device Fabricated Utilizing Ultrathin Silver Nanowires-PEDOT:PSS Composite Electrode," **Amna Mir**, et al.

"A Comparative Study of the Electrochemical and Microstructural Characteristics of Optimized Electroless Ni-P-SiO₂ Nanocomposite Coatings Using a Sulphamate Bath on Brass Alloy," **Narges Mahdavi**, et al.

"Effect of Current Type and Density on Tribological Properties of Electrodeposited Ni-Co/MWCNT Nanocomposite Coatings," **Ramazan Karslioglu**, et al.

"Metal/Polymer/Metal Sandwich Systems—An Overview," **Adele Carrado**, et al.

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"Microwave-Intensified Separation of Boron and Iron from Ludwigite Ore Based on Impedance Matching," **Lei Ye**, et al.

"Phase Equilibria of Ti-bearing Electric Furnace Slags in the CaO-MgO-SiO₂-13%Al₂O₃-50%TiO₂ System," **Jianfa Jing**, et al.

"Phase and Structure Optimizations of MoS₂ Concentrate Pellets with Al₂O₃-SiO₂ Additives During Oxidative and Volatilizing Roasting Process," **Guanghui Li**, et al.

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"Thermodynamic Analysis and Experiment on the Conversion of Niobium Ferrite to Pyrochlore," **Xin Peng**, et al.

"Cooling Rate of Hot Stamping Dies by Constructed Cooling Temperature Trend Model," **Yuhang Zhang**, et al.

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