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Recent Articles

Correction: Anomalous Nernst Effect of FeCoNi-based High-Entropy Alloy Ferromagnetic Thin Films
2026-3 Vol. 4 Issue 1 Pages 172-173
Authors: Hironari Isshiki, Kazuya Z. Suzuki, Masaki Imai et al.
DOI: 10.1007/s44210-026-00082-w

Molecular Dynamics Simulation of Elevated Temperature Deformation Behavior of CoCrFeMnNi High Entropy Alloy
2026-3 Vol. 4 Issue 1 Pages 243-259
Authors: Tuğçe Yıldız, Güldane Ateşoğlu, Ismail Esen
DOI: 10.1007/s44210-026-00081-x

Role of Chemical Disorder in High Temperature Dislocation Glide in Refractory Multi-principal Element Alloys
2026-3 Vol. 4 Issue 1 Pages 223-242
Authors: Morgan R. Jones, Pulkit Garg, Irene J. Beyerlein
DOI: 10.1007/s44210-026-00080-y

Beyond Ceramic Reinforcements: Design Principles, Interfacial Stability, and Structure–Property Relationships of High-Entropy Alloy Reinforcements in Metal Matrix Composites
2026-3 Vol. 4 Issue 1 Pages 117-146
Authors: Aswin Karkadakattil
DOI: 10.1007/s44210-026-00085-7

A Comprehensive Review of the Computational Approaches for Structure–Property Prediction of High Entropy Materials
2026-3 Vol. 4 Issue 1 Pages 71-116
Authors: Suman Chabri, Gautam Anand
DOI: 10.1007/s44210-026-00084-8

FORGEall: A Deep Learning Framework to Reliably Predict High Yield Strength High-Entropy Alloys for Hypersonic Engines
2026-3 Vol. 4 Issue 1 Pages 193-222
Authors: Avni Iyer
DOI: 10.1007/s44210-025-00076-0

Complexity of the Plastic Deformation Mechanisms in Al-Based High-Entropy Alloys: An Atomistic Study via Molecular Dynamics Approach
2026-3 Vol. 4 Issue 1 Pages 147-163
Authors: Abolfazl Malti, Mostafa Farahani, Farrokh Yousefi et al.
DOI: 10.1007/s44210-026-00079-5

Anomalous Nernst Effect of FeCoNi-based High-Entropy Alloy Ferromagnetic Thin Films
2026-3 Vol. 4 Issue 1 Pages 164-171
Authors: Hironari Isshiki, Kazuya Z. Suzuki, Masaki Imai et al.
DOI: 10.1007/s44210-026-00078-6

Ab Initio Molecular Dynamics Study of An Equiatomic Twenty-Element High Entropy Amorphous Alloy
2026-3 Vol. 4 Issue 1 Pages 1-14
Authors: Changming Fang, Brian Cantor
DOI: 10.1007/s44210-026-00083-9

Elevated Temperature Creep of a Eutectic FeNiMnAlCr High Entropy Alloy
2026-1-26 Vol. 4 Issue 1 Pages 15-32
Authors: Edwin S. Jiang, Jifeng Liu, Ian Baker
DOI: 10.1007/s44210-025-00077-z