

JOM 2014 Editorial Calendar

THEME: CHARACTERIZATION AND ANALYSIS

January 2014	Novel Approaches and Applications of Orientation Mapping	Characterization of Nanomaterials	Influence of Interfaces on Mechanical Behavior	Manuscripts Deadline: Deadline Passed
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THEME: LIGHTWEIGHT MATERIALS

February 2014	Aluminum: Bauxite-Alumina-Carbon Reduction	Composite Materials for Military Applications	Dynamic Behavior of Magnesium Alloys	Manuscripts Deadline: November 1, 2013
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THEME: ADVANCES IN COMPUTATIONAL MATERIALS

March 2014	Computational Materials Discovery	Algorithm Development in Computational Materials		Manuscripts Deadline: December 1, 2013
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THEME: ADVANCED MATERIALS

April 2014	Degradation of Biomaterials	Electrical, Magnetic, and Photonic Applications of Nanomaterials	Recent Developments in Biological, Electronic, and Functional Thin Films	2014 Functional Nanomaterials: Synthesis, Properties and Applications	Manuscripts Deadline: January 1, 2014
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THEME: METALS AND ALLOYS

May 2014	Aluminum: Cast Shop and Alloys	Novel Microstructures for Advanced High Strength Steel	Advances in Refractory Metals and Alloys	Manuscripts Deadline: February 1, 2014
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THEME: MATERIALS AND PROCESSING

June 2014	Polymer and Metal-Matrix Composites	Advances in Materials for Energy Conversion and Storage Technologies	Powder Materials in Defense, Energy and Security Systems	Advances in Surface Engineering Materials	Manuscripts Deadline: March 1, 2014
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THEME: MODELING

July 2014	Multi-Scale Modeling: Concurrent and Hierarchical Methods	Modeling of Magnetic Materials	Optimization of Metallurgical Reactors using Mathematical and Physical Modeling	ICME and Modeling of Titanium Alloys	Manuscripts Deadline: April 1, 2014
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THEME: PHYSICAL METALLURGY

August 2014	Aluminum: Shaping and Forming	Microstructural Patterning during Phase Transformations	Recent Experimental and Numerical Developments in Semisolid Deformation	Multiscale Approaches to Hydrogen-Assisted Degradation of Metals	Manuscripts Deadline: May 1, 2014
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THEME: EXTRACTION AND PROCESSING

September 2014	Energy Saving Technologies in the Mining & Metallurgical Industry	Critical Metals Hydrometallurgy	Modeling and Simulation of Metallurgical Processes	Manuscripts Deadline: June 1, 2014
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THEME: MECHANICAL PROPERTIES

October 2014	Progress in High-Entropy Alloys	Multi-Objective Optimization for Materials	Long-Term Durability of High-Temperature Alloys	Multiscale Perspective of Interface-Related Mechanics of Nanocomposites	Manuscripts Deadline: July 1, 2014
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THEME: ENERGY AND ENVIRONMENT

November 2014	Aluminum: Recycling and Environmental Issues	Alloys and Compounds for Thermoelectric and Solar Cell Applications	Progress with Lead-Free Solders	Critical Materials: Strategies for Achieving Sustainability	Manuscripts Deadline: August 1, 2014
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THEME: MATERIALS FOR EXTREME ENVIRONMENTS

December 2014	High-Temperature Coatings for Environmental Protection	Nuclear Applications of ODS and NFA Alloys	Radiation Effects in Oxide Ceramics and Novel LWR Fuels	Long Term Stability of High-Temperature Materials	Manuscripts Deadline: September 1, 2014
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- **Overview:** A well-referenced and well-illustrated introduction to the issues affecting and recent developments occurring in a topical technology. The purpose is to thoroughly introduce the general reader to the specifics of the field.
- **Research Summary:** These papers outline recent, technically in-depth investigations in materials science and technology.
- **Applied Technology:** These articles communicate information about advancements in commercial products or processes and are typically submitted by industrial sources.
- **Design:** These articles emphasize the application of the design process in the development of a material system, process, or product.
- **Testing and Analysis:** These articles emphasize the application of analytical techniques in the study of the properties and/or performance of a material.
- **Opinion:** Qualified commentary by a recognized expert on a topical or controversial issue.
- **Nontechnical Feature:** These articles examine pertinent issues in education, professional affairs, and industry economics.
- **Conference Reviews:** These articles are synopses of technical presentations at major conferences or symposia.
- **Industrial Insight:** An experience-driven description of the economic, managerial, environmental, engineering, scientific, governmental, international, competitive, etc., factors that influence technology on an industrial scale.
- **Archaeotechnology:** These articles explore materials usage and development throughout history.

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