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INAUGURAL EDITORIAL

Bridging the Gap: From Material Discovery to Industrial Application

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HISTORY IS WRITTEN IN MATERIALS. No specific place or time can be identified as the single origin of materials shaping and fabrication, yet the classification of human civilization has long been defined by the materials in use. Historical eras such as the Stone Age, Bronze Age, and Iron Age demonstrate this inextricable link. Even today, our technological periods are designated by materials—from the Atomic and Space Ages to the emerging Superconducting and Composite Ages.

It is with great pride that we introduce the inaugural issue of the **Journal of Innovation in Materials: Current and Future (IMCF)**.

A Legacy of Evolution

This journal builds upon the foundation laid by our predecessor, *Advances in Nanocomposite Research* (2014). While that publication focused exclusively on the burgeoning field of nanocomposites, the rapid evolution of materials science has demonstrated that true innovation rarely happens in isolation. Recognizing the need for a more holistic platform, we have expanded our scope. IMCF represents the evolution of that vision—broadening our horizon from nanocomposites to the entire spectrum of material innovation.

Our Scope and Mission

Materials Science and Engineering covers a broad range of activities, but our journal focuses on two fundamental drivers of progress:

1. **Materials Innovation:** The discovery and fabrication of new materials exhibiting novel microstructures and properties.
2. **Process Innovation:** The development of new processing methods to enhance performance and efficiency.

We recognize that materials are rarely used in their natural form; they are engineered into components where geometry and design critically influence behavior. Therefore, IMCF is dedicated to elucidating the relationships between material nature, functional properties, geometric design, and manufacturing processes.

Strategic Areas

In this and future issues, we aim to advance research in strategic sectors including:

- **Energy & Environment:** Solar energy, nuclear materials, hydrogen storage, and ocean resource utilization.
- **Advanced Technology:** Semiconductors, microelectronics, and information technology materials.

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- **Structural Materials:** High-performance polymers, novel alloys, precision ceramics, and advanced composites.

We invite researchers, engineers, and innovators from both academia and industry to join us in this endeavor. IMCF is your platform to bridge the gap between scientific discovery and engineering application.

Welcome to the future of materials.

Prof. Mardali Yousefpour

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