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Call for Papers – Journal of Sciences, Islamic Republic of Iran (JSIRI)

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Guest Editor: Ali Hasabeigi, Department of Physics and Institute for Plasma Research, Kharazmi University

Applied Physics at a Technological Crossroads:

Exploring the Frontiers of Emerging Technologies and Applications

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Dear Colleagues,

I am pleased to announce a "Call for Papers" for a Special Issue on recent advances in applied physics and their emerging scientific and technological applications. By integrating fundamental physical principles with theoretical analysis, experimental investigation, and advanced computational methods, applied physics provides the foundation for developing innovative materials, devices, processes, and technologies across diverse scientific and engineering fields.

This Special Issue welcomes original contributions addressing fundamental and applied aspects of contemporary applied physics, including plasma science and technology, plasma medicine, low-temperature and atmospheric-pressure plasmas, plasma sources and diagnostics, plasma–material and plasma–surface interactions, pulsed-power phenomena, plasma chemistry, transport processes, nonlinear and nonequilibrium systems, photonics and optics, laser–matter interactions, solid-state and semiconductor physics, applied electromagnetics, microwave technologies, sensors and detectors, and computational or data-driven physical modeling. Contributions related to advanced manufacturing, environmental and biomedical technologies, photonic and electronic devices, functional materials, energy systems, and other emerging applications are also encouraged.

Particular emphasis will be placed on studies that provide new physical insights, develop innovative theoretical, experimental, or computational methodologies, or demonstrate the practical translation of physical principles into technologically relevant applications. Submissions should be characterized by scientific rigor, originality, conceptual clarity, and a clear interpretation of the underlying physics. The journal welcomes original research articles, critical reviews, perspectives, and methodological contributions. All manuscripts will undergo the journal's standard peer-review process and should be prepared in accordance with the *Guide for Authors* available on the journal's website. In the cover letter, authors should indicate that their manuscript is intended for the Special Issue entitled **"Applied Physics at a Technological Crossroads: Frontiers in Emerging Technologies and Applications."** For inquiries regarding the scope of the Special Issue, please contact: hbeigi@khu.ac.ir

We look forward to receiving high-quality contributions that will foster scientific exchange and advance the frontiers of applied physics and its emerging technological applications.

Dr Ali Hasanbeigi, Guest Editor for Special Issue on Physics

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