Mesoscience & Nanotechnology
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Welcome to Mesoscience & Nanotechnology

A Journal Facilitating Open Science Across the Intersect of Mesoscopic Physics and Nanotechnology

V. S. Stolyarov

Editor-in-Chief of the Mesoscience & Nanotechnology

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Dear Colleagues,

Throughout the latter half of the twentieth century, there was a remarkable surge in scientific exploration encompassing physical processes across various length scales from the atomic to the macroscopic. This trend is particularly evident in the research of nanosized devices and quantum materials along with a comprehensive understanding of their characteristics. The strides made in this field have been facilitated by the invention of innovative methods for producing low-dimensional, topological, and other materials. Additionally, the development of sophisticated techniques has allowed for the examination and precise control of physical and chemical parameters across different length scales.

This scientific progress has spurred global advancements in physics, generating heightened interest in a variety of artificial structures such as superlattices, heterostructures, quantum dots, thin films, and interfaces. Consequently, researchers are expanding their focus beyond purely theoretical issues, turning their attention to current and future practical applications in real-world nanodevices. Mesoscopic physics and chemistry, or Mesoscience can be considered a critical bridge between physics at the nano- and micro- scales, encompassing both fundamental and applied research. This motivation has inspired us to launch a new international scientific journal, Mesoscience & Nanotechnology, dedicated to facilitating the exchange of scientific information. In a commitment to fostering an open platform for knowledge sharing, we have opted for a *free-of-charge* publication format, benefiting both readers and authors.

Developed *by scientists for scientists*, our journal emphasizes responsiveness, high-level research contributions, rigorous peer-review standards, and an unwavering commitment to scientific ethics devoid of any political and other biases. We firmly believe that this approach will propel the advancement of Mesoscience on a global scale.

Covering a wide array of topics, the journal spans superconductivity and superconducting devices, nanoelectronics and nanotechnology, surfaces and interfaces, functional materials (fabrication and properties), quantum physics and materials, topologically protected electronic phenomena, 2D materials and devices, quantum dots, low-dimensional magnetism and superconductivity, heterostructures and superlattices, strongly correlated electronic systems, ferroelectricity, multiferroics, thin films, neuromorphic systems, nanobiotechnology, and innovative methods.

Mesoscience & Nanotechnology operates as a peer-reviewed, *open-access* interdisciplinary journal, publishing original research results in various formats, including articles, letters, reviews, methodological notes, and analyses of perspectives and trends across physics, chemistry, materials science, and related disciplines. Notably, our non-commercial initiative is led by individuals passionate about fostering scientific discourse. The list of editors can be accessed on the journal's website: jmns.press.

We invite authors worldwide to submit their manuscripts for prompt consideration. The editorial board is committed to making the first decision on manuscript suitability for further consideration and publication within 10 days. All submissions will then go through a rigorous single-blind review process conducted by three referees with the first evaluation round expected to conclude within 21 days of submission. Upon acceptance, manuscripts undergo proof preparation before electronic publication on the journal's website under the CC BY-NC-ND 4.0 license, allowing free distribution. Our aim is to garner community support and expedite the inclusion of Mesoscience & Nanotechnology in national and international abstract and citation databases, including Crossref, Web of Science, Scopus, RSCI, and others.

We are proud to present the inaugural issue of Mesoscience & Nanotechnology, the result of dedicated efforts from authors, reviewers, members of the editorial board, and IT engineers.

On behalf of the Editorial Board,

Prof. Vasily S. Stolyarov,
Editor-in-Chief
editor.chief@phtreatise.com