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# Fundamental and Applied Aspects of the Physics in Low-Dimensional Systems

Guest Editor:

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Deadline for manuscript submissions:

10 June 2024



Dear Colleagues,

We invite authors to contribute original research articles on the fundamental and applied aspects of the physics of lowdimensional systems, two-dimensional electron systems, the quantum Hall effect, quantum dots, quantum wires, graphene, thin films, novel nanoscale devices, etc. Both theoretical and experimental contributions are invited. The aim of the Issue is to provide an overview of the current research of the fundamental and applied aspects of lowdimensional systems that show a large variety of scientifically fascinating and technologically important phenomena. Potential topics include but are not limited to:

- Two-dimensional electron gas and topological insulators;
- Integer and fractional quantum Hall effects;
- Spin–orbit interaction and spin-related phenomena;
- Quantum dots, wires, and mesoscopic systems;
- Nanostructures (graphene, carbon nanotubes, etc.);
- Thin film materials;
- Characterizations of nanomaterials, including theoretical and numerical methods;

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• New frontiers in low-dimensional systems.

See more information in https://mdpi.com/si/168316

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