PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES

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DESCRIPTION

*Physica E* (Low-dimensional systems and nanostructures) contains papers and invited review articles on the fundamental and applied aspects of physics in *low-dimensional electron systems*, in semiconductor heterostructures, oxide interfaces, quantum wells and superlattices, quantum wires and dots and emerging phenomena such as two-dimensional, majorana fermion and topological low-dimensional systems.

Both theoretical and experimental contributions are invited. Topics suitable for publication in this journal include spin related phenomena, optical and transport properties, many-body effects, integer and fractional quantum Hall effects, single electron effects and devices, and other novel phenomena.

Keywords:
- quantum wells and superlattices;
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- heterostructures, metal-semiconductor and insulator semiconductor structures;
- mesoscopic systems, quantum wires and quantum dots;
- charge- and spin- transport and tunnelling;
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- transition metal dichalcogenides;
- topological superconductors, majorana fermions;
- oxide heterostructures (new);
- magnetic-semiconductor structures;
- ultra-fast nonlinear optical phenomena;
- novel devices and applications;
- single-electron devices;
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