



PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES

AUTHOR INFORMATION PACK

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DESCRIPTION

Physica E (Low-dimensional systems and **nanostuctures**) contains papers and invited review articles on the fundamental and applied aspects of physics in **low-dimensional systems**, including semiconductor heterostructures, mesoscopic systems, quantum wells and superlattices, two-dimensional electron systems, and quantum wires and dots. 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.

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- mesoscopic systems, quantum wires and quantum dots;
- charge- and spin- transport and tunnelling;
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[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

Reference to a dataset:

[dataset] [6] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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