

List of publications

[See www.mortensen-lab.org for an updated publication list]

325 peer-review journal papers, 4 preprints, and a total of 90+ other scientific contributions, including 4 US patents.

Publications in international peer-review journals (indexed in ISI Web of Science):

- [1] **N.A. Mortensen**, K. Flensberg, and A.-P. Jauho, “Angle dependence of Andreev scattering at semiconductor-superconductor interfaces”, [Phys. Rev. B 59, 10176 \(1999\)](#).
- [2] **N.A. Mortensen**, A.-P. Jauho, K. Flensberg, and H. Schomerus, “Conductance enhancement in quantum point contact-semiconductor-superconductor devices”, [Phys. Rev. B 60, 13762 \(1999\)](#).
- [3] **N.A. Mortensen**, K. Johnsen, A.-P. Jauho, and K. Flensberg, “Contact resistance of quantum tubes”, [Superlattice Microstr. 26, 351 \(1999\)](#).
- [4] **N.A. Mortensen**, A.-P. Jauho, and K. Flensberg, “Dephasing in semiconductor-superconductor structures by coupling to a voltage probe”, [Superlattice Microstr. 28, 67 \(2000\)](#).
- [5] J. Erland, V. Mizeikis, W. Langbein, J.R. Jensen, **N.A. Mortensen**, and J.M. Hvam, “Seeding of Polariton Stimulation in a Homogeneously Broadened Microcavity”, [Phys. Stat. Sol. \(b\) 221, 115 \(2000\)](#).
- [6] **N.A. Mortensen** and G. Bastian, “Side-gate modulation of critical current in mesoscopic Josephson junction”, [Superlattice Microstr. 28, 231 \(2000\)](#).
- [7] **N.A. Mortensen**, H.M. Rønnow, H. Bruus, and P. Hedegård, “The magnetic neutron scattering resonance of high-T_c superconductors in external magnetic fields: an SO(5) study”, [Phys. Rev. B 62, 8703 \(2000\)](#).
- [8] **N.A. Mortensen**, K. Flensberg, and A.-P. Jauho, “Coulomb Drag in Coherent Mesoscopic Systems”, [Phys. Rev. Lett. 86, 1841 \(2001\)](#).
- [9] M. Titov, **N.A. Mortensen**, H. Schomerus, and C.W.J. Beenakker, “Andreev levels in a single-channel conductor”, [Phys. Rev. B 64, 134206 \(2001\)](#).
- [10] K. Flensberg, T.S. Jensen, and **N.A. Mortensen**, “Diffusion equation and spin drag in spin-polarized transport”, [Phys. Rev. B 64, 245308 \(2001\)](#).
- [11] **N.A. Mortensen**, K. Flensberg, and A.-P. Jauho, “Mesoscopic fluctuations of Coulomb drag between quasi-ballistic one-dimensional wires”, [Phys. Rev. B 65, 85317 \(2002\)](#).
- [12] **N.A. Mortensen**, “Effective area of photonic crystal fibers”, [Opt. Express 10, 341 \(2002\)](#).
- [13] **N.A. Mortensen** and J.R. Folkenberg, “Near-field to far-field transition of photonic crystal fibers: symmetries and interference phenomena”, [Opt. Express 10, 475 \(2002\)](#).
- [14] **N.A. Mortensen**, J.R. Folkenberg, P.M.W. Skovgaard, and J. Broeng, “Numerical Aperture of Single-Mode Photonic Crystal Fibers”, [IEEE Photonic. Technol. Lett. 14, 1094 \(2002\)](#).
- [15] **N.A. Mortensen** and J.C. Egues, “Universal spin-polarization fluctuations in 1D wires with magnetic impurities”, [Phys. Rev. B 66, 153306 \(2002\)](#).
- [16] **N.A. Mortensen**, K. Flensberg, and A.-P. Jauho, “Coulomb drag in the mesoscopic regime”, [Phys. Scripta T101, 177 \(2002\)](#).
- [17] **N.A. Mortensen**, M.D. Nielsen, J.R. Folkenberg, A. Petersson, and H.R. Simonsen, “Improved large-mode area endlessly single-mode photonic crystal fibers”, [Opt. Lett. 28, 393 \(2003\)](#).
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- [1] **N.A. Mortensen**, “*Theoretical models of transport in macroscopic and mesoscopic NS structures*”, MSc Thesis, Technical University of Denmark (1998) [grade 13/13 equivalent to A (ECTS)].
- [2] **N.A. Mortensen**, “*Mesoscopic Coulomb Drag*”, PhD Thesis, Technical University of Denmark (2001). ISBN:87-89935-13-6
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- [3] **N.A. Mortensen**, “*Microstructured Optical Fibres - Theory and Simulations*”, Dr. Techn. Thesis, Technical University of Denmark (2006). ISBN:87-89935-67-5
- [4] **N.A. Mortensen**, “*Mesoscopic Electrodynamics — the interplay of nanoscale morphology with the quantum and nonlocal plasmon response of metals*”, Dr. Scient. Thesis, University of Copenhagen (2021). ISBN:978-87-972899-0-7
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- [2] A. Kristensen and **N.A. Mortensen**, "Optofluidic dye lasers" in "Optofluidics: Fundamentals, Devices, and Applications", Biophotonics Series (McGraw-Hill, 2009), Chapter 11, pp. 241-258. [eds. Prof. S. Fainman (UC San Diego), Prof. L. Lee (UC Berkeley), Prof. D. Psaltis (Caltech/EPFL), Prof. C. Yang (Caltech)]
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- [3] A. Kristensen and **N.A. Mortensen**, "Optofluidic light sources" in "Handbook of Optofluidics" (CRC Press, 2010). [eds. Prof. A.R. Hawkins (Brigham Young Univ., Utah) and Prof. H. Schmidt (UC Santa Cruz)]
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- [4] M. Wubs and **N.A. Mortensen**, "Nonlocal Response in Plasmonic Nanostructures" in "Quantum Plasmonics", [Springer Series in Solid-State Sciences 185, 279-302 \(2016\)](#).
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- [3] T. Sørensen, Y. Xu, G. Vienne, C. Jakobsen, H.J. Deyerl, J.B. Jensen, T.P. Hansen, Y. Huang, M. Terrel, R.K. Lee, **N.A. Mortensen**, J. Broeng, H. Simonsen, A. Bjarklev, and A. Yariv, "Air-guiding air-silica Bragg fibers with nano-structured cladding", [Optics & Photonics News 15\(12\), 28 \(2004\)](#).
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