



# MICROELECTRONIC ENGINEERING

Nanotechnology and Processing — Electronics, photonics, MEMS and Life Sciences

## AUTHOR INFORMATION PACK

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### DESCRIPTION

*Microelectronic Engineering* has an open access mirror journal [Micro and Nano Engineering](#), sharing the same aims and scope, editorial team, submission system and rigorous peer review.

*Microelectronic Engineering* is the premier **nanoprocessing**, and **nanotechnology** journal focusing on fabrication of electronic, photonic, bioelectronic, electromechanic and fluidic devices and systems, and their applications in the broad areas of electronics, photonics, energy, life sciences, and environment. It covers also the expanding interdisciplinary field of "more than Moore" and "beyond Moore" integrated nanoelectronics / photonics and micro-/nano-/bio-systems. Through its unique mixture of peer-reviewed articles, reviews, accelerated publications, short and Technical notes, and the latest research news on key developments, *Microelectronic Engineering* provides comprehensive coverage of this exciting, interdisciplinary and dynamic new field for researchers in academia and professionals in industry.

The journal addresses the following topics and considers mostly experimental work, or theoretical / simulation work directly linked and supporting experiments in the fields: Microelectronics processing & materials (Lithography, Self-assembly, Plasma Processing, Metallization, 3D Integration, Related Materials.) Micro-/Nano-engineering / fabrication / technology / manufacturing Nanoelectronic and photonic devices and their fabrication Microsystems, microdevices (e.g., sensors and nanoenergy devices) and their fabrication Microfluidics, life science devices /sensors, as well as integrated Lab-on-a-chip and their fabrication

In detail the topics covered are as follows:

**1. Nanolithography and Nanopatterning:** Optical Lithography Electron Optical Methods and Systems X-ray Optical Methods and Systems Resists Limits of Nanolithography Nanoimprint Lithography EUV Lithography and Masks Charged Particle Based Lithography and Patterning Nanoimprint Lithography Techniques and Templates Maskless Lithography Emerging Nanopatterning Methods Limits of Nanopatterning

**2. Pattern Transfer** Ion Technology Plasma Processing Transfer of Pattern with Other Methods Plasma Etching Plasma Nanotechnology Plasma / beam Nanopatterning Plasma Surface Modification of Devices Wet transfer methods

**3. Materials** Metallization and Barrier Materials Silicon on Insulators Dielectrics (low K and high K) Interconnects New Resist Materials Nanomaterials for Device Fabrication Block Copolymers Polymers and Flexible Substrates Layered (2D) Materials and Related Transferring Techniques

**4. Nanometrology, Inspection and Testing** Electron Beam Testers Laser Probes Signal and Image Processing Nanometrology AFM and Scanning Probe Measurements

**5. Advanced Processing and Nanofabrication** Process Integration Three Dimensional Integration Other / Emerging Manufacturing and Fabrication Techniques 3D Printing Rapid Thermal Processing Process Modelling and Simulation Equipment Modelling Laser Assisted Processing Top-Down / Bottom-Up (Self-Assembly) Nanofabrication Growth, Planarization, Cleaning Techniques for Devices Plasma deposition MBE Other growth techniques Planarization and cleaning techniques

**6. Advanced Nanoelectronic, Photonic, Sensing, Energy Harvesting, and Fluidic Devices** Nanoelectronic, Optoelectronic and Photonic Devices Memristive devices for neuromorphic computing Steep slope or fast switching devices Photonic devices Optoelectronic devices Dimension-sensitive Device Properties Memory Devices Magnetic and spintronic devices Advanced MOS Devices Vacuum Nanoelectronics Flexible / Organic / Molecular Electronics Organic and molecular electronics Flexible electronics Wearable electronics Paper electronics Printed electronics Microdevices, Energy Harvesting Devices and Sensors Physical sensors and actuators Energy harvesting devices

**7. Chemical, biological, bioelectronic and fluidic devices. Heterogeneous Micro-Nano and Bio Systems** Electro-Mechanical Systems (MEMS, NEMS) Power MEMS RF MEMS MOEMS Magnetic MEMS Optical and Photonic Systems

Micro and Nano Fluidic Devices Pumping / valving devices Mixing devices Separation devices Microreactors Sample preparation devices Fluidic interfaces and integration

Miniaturized Devices for Biology, Chemistry, Medicine Biosensors Chemical sensors Biomimetic properties incorporated into devices Bioelectronic devices Micro / nano / bio interface and interconnection devices

Lab-on-a-chip, bioMEMS, microTAS DNA / protein chips Cell on chip Organ on chip Biomimetic properties incorporated into systems Bioanalytic, diagnostic systems Microseparation, pretreatment systems On-chip detection systems Environmental and food monitoring systems Microreactors

Manuscripts of 5 (five) types are considered: Review Articles that inform readers of the latest research and advances in nanoelectronics, nanofabrication, micro-nano systems, and applications (authors should e-mail editors with a review proposal and outline before submitting) Accelerated Publications (Letters) that feature exciting research breakthroughs in the field Regular original research papers Short / Technical notes intended for original limited investigations or short description of original industrial or industrially-related research and development work News and Opinions that comment on topical issues or express views on the developments in related fields, or comment on previously published work

## AUDIENCE

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Scientists and engineers in industry and academia involved in micro and nanoelectronics.

## IMPACT FACTOR

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### INTRODUCTION

The aim of *Microelectronic Engineering* is to bring together in one publication the results of international work in the rapidly expanding field of integrated microelectronics.

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4.2  
3.5  
0.26

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[NaCl]/mol l-1  
4.2 x 10-4  
3.5 x 10-4  
2.6 x 10-5

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[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[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:

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