DESCRIPTION

*Micro and Nano Engineering* is the open access mirror journal of *Microelectronic Engineering*. *Micro and Nano Engineering* offers authors with high-quality research who want to publish in a gold open access journal the opportunity to make their work immediately, permanently, and freely accessible. Authors will pay an article publishing charge (APC), have a choice of license options, and retain copyright.

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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

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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

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