DESCRIPTION

Micro and Nano Engineering (MNE) is an open access, multidisciplinary journal which crosses boundaries from nano to micro to bio, and from science to technologies. The journal focuses on micro-/nano engineering, fabrication and integration of functional nanostructures and surfaces towards intelligent nanomanufacturing; devices and bio-microsystems for medicine, life sciences, chemistry, environmental sciences, and agrofood; and devices and microsystems for physical applications.

MNE places an emphasis on the "method to make and characterize" the structure, functional surface, device, or system and provide a demonstration of its application. The main publishing criteria are novelty, potential usefulness and impact.

The Editors welcome communications of ground-breaking new results, original research papers, review articles from experts in the field, and news and opinion papers.

MNE scope primarily addresses the following three main topics: Micro-/Nano-engineering, fabrication and integration of functional micro-nanostructures and surfaces towards intelligent micro-nanomanufacturing Micro and Nano Engineering, devices and bio-microsystems for Medicine, Life Sciences, Chemistry, Environment and Agrofood sectors Micro and Nano Engineering, devices and microsystems for physical applications In detail, the primary topics covered by MNE are described below.

1. Micro-/Nano-engineering, fabrication and integration of functional micro-nanostructures and surfaces towards intelligent micro-nanomanufacturing

This topic aims at presenting novel approaches or improvements in fabrication of nanostructures, surfaces or nanomaterials in 0D, 1D, 2D, or 3D including, as well as demonstrating (multi)functionality and other properties of the nanostructures or surfaces. Topics here include but are not limited to: Micro-nanopatterning, Lithography, including Nanoimprint Lithography and roll to roll nanoimprint, Scanning probe techniques, Nanofabrication and micro-nanostructures for art and culture Self-assembly, and combination of top-down and bottom up nanofabrication Plasma surface engineering, and plasma etching, Laser surface engineering 3D micro-nanomanufacturing, 3D printing, 3D bio-printing, "Smart" (multi) functional surfaces with wetting, optical and / or biological functionality, Intelligent bionic self-healing coating technology 2D materials, Metasurfaces, Metamaterials, Machine learning and Artificial Intelligence in nanomanufacturing towards Intelligent Manufacturing based on the IoT Integration of design and manufacturing based on topology optimization and
additive manufacturing Integration of processes and technologies to build nanodevices or microsystems with added functionality. Nanometrology, and ultraprecision measurement science and technology

2. Micro and Nano Engineering, devices and bio-microsystems for Medicine, Life Sciences, Chemistry, Environment and Agrofood sectors

Contributions to this topic should address biological, bioanalytical, analytical, food and agrofood, health and medicine monitoring and safety problems and show how micro/nano engineering can provide the appropriate solution, starting from 3D micro-nano structures, functional surfaces, microfluidics, and scaffolds, all the way to nanobiosensors, BioMEMS, lab on a chip and health & medicine or environmental monitoring. Targeted areas can be: Bioinspired technologies, biomimetic surfaces and structures, 3D-bioprinted structures and scaffolds Micro and Nano Fluidic Devices (for separation, reaction, sensing and other functions), Digital microfluidics Miniaturized Devices for Biology, Chemistry, Health & Medicine including nanobiosensors Lab on Chip, Cell on Chip, Organ on Chip, Bio-micro-nano-systems bio(MEMS), microTAS, Applications in health & medicine, environmental monitoring, food safety, agrofood sectors

3. Micro and Nano Engineering, devices and microsystems for physical applications

This topic encompasses the use of micro/nano fabrication methods for building up new solutions for application areas in Physical disciplines such as Nanoelectronics, Photonics, Plasmonics, Physical Sensing and Energy Harvesting. The solutions can be in the form of devices or complete systems. Contributions should not only describe the fabrication procedure, but should also include demonstration of the application and integration steps. This topic includes but is not limited to: Photonic and plasmonic devices, Nanoelectronic devices, wearable electronics, flexible electronics, paper electronics Physical sensors, Energy harvesting devices, Micro and Nanosystems (MEMS, NEMS)

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