SENSORS AND ACTUATORS B: CHEMICAL
An international journal devoted to research and development of chemical transducers

AUTHOR INFORMATION PACK

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DESCRIPTION

Sensors & Actuators, B: Chemical is an interdisciplinary journal dedicated to publishing research and development in the field of chemical sensors and biosensors, chemical actuators and analytical microsystems. The journal aims to promote original works that demonstrate significant progress beyond the current state of the art in these fields along with applicability to solve meaningful analytical problems. Review articles may only be submitted upon invitation from an Editor of the journal.

The journal aims to publish works that are supported by experimental results and as such purely theoretical works are not accepted. The analytical performance in all analytical parameters needs to be reported and critically compared with the state of the art. Sensing applications will be considered only if they refer to analytically challenging complex samples and are properly validated.

The scope of the journal encompasses, but is not restricted to, the following areas:
- Novel chemical sensing and biosensing concepts, mechanisms and detection principles
- Development of chemical sensors and biosensors
- Fabrication technology of chemical sensors, biosensors, chip-based detection devices and chemical actuators
- Chemical actuators including soft actuators, micro- and nanomotors, microfluidic components
- Photonic and biophotonic sensors and chemical sensing systems
- Lab-on-a-chip, Micro Total Analysis Systems (TAS) and other biochips and microarray systems
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Ramaier Narayanaswamy

Optical Chemical sensors and Biosensors: development, applications and analytical instrumentation. New materials, devices, nano materials for optical chemical sensing, for environmental, biochemical and industrial applications; Colorimetric and Fluorescence based sensing systems. Nanoparticles, molecularly imprinted polymers, quantum dots, carbon dots and other novel materials in sensors; Surface Plasmon Resonance sensors and sensing systems: devices and instrumentation with application; Mass sensitive devices, instrumentation and applications, e.g. SAW, BAW, QCM, QMB, etc.

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Sensors & Actuators, B: Chemical is an interdisciplinary journal dedicated to publishing research and development in the field of chemical sensors and biosensors, chemical actuators and analytical microsystems. The journal aims to promote original works that demonstrate significant progress beyond the current state of the art in these fields along with applicability to solve meaningful analytical problems. Review articles may only be submitted upon invitation from an Editor of the journal.

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• Sensor and sensor-array chemometrics

Reports on new materials, chemical components and fabrication technologies claimed to be relevant to chemical sensing and actuation will be considered for publication only if an immediate application in that respect is presented or it presents in a novel concept or mechanism.

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