SENSORS AND ACTUATORS B: CHEMICAL

An international journal devoted to research and development of chemical transducers

AUTHOR INFORMATION PACK

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ISSN: 0925-4005

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DESCRIPTION

Sensors & Actuators, B: Chemical is an interdisciplinary journal dedicated to covering research and development in the field of **chemical sensors**, **actuators** and **microsystems**.

The scope of the journal encompasses, but is not restricted to, the following areas:
- Sensing principles and mechanisms
- New materials development (transducers and sensitive/recognition components)
- Fabrication technology
- Actuators
- Optical devices
- Electrochemical devices
- Mass-sensitive devices
- Gas sensors
- Biosensors
- Analytical microsystems
- Environmental, process control and biomedical applications
- Signal processing
- Sensor and sensor-array chemometrics

µTAS - Micro Total Analysis Systems: Microsystems for the generation, handling and analysis of (bio)chemical information
The special section of *Sensors & Actuators, B: Chemical* on **micro TAS** is dedicated to contributions concerning miniaturised systems for (bio)chemical synthesis and analysis, also comprising work on Bio-MEMS, Lab-on-a-chip, biochips and microfluidics.

Topics covered by the micro TAS section include:
- Physics and chemistry of microfluidics
- Microfabrication technology for micro TAS
- Analytical chemical aspects
- Detectors, sensors, arrays for micro TAS
- Micro TAS applications
- DNA analysis
- Microinstrumentation
- Microsystems for combinatorial chemistry.

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Academic and Industrial Researchers in Analytical Chemistry and Instrument Development

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Electrochemical and optical (bio) sensors and their biomedical applications, miniaturized analytical devices based on microfluidics principle, Lab-on-a-Chip devices and their applications, fabrication technology of microfluidic devices and systems, new biosensing principles.

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Electrochemical sensors (ion-selective electrodes, amperometric (bio) sensors, nanopore, ultramicroelectrodes and ion-channel mimetic sensing), Optical sensors (optodes and surface plasmon resonance biosensors), Affinity biosensors, Mass-sensitive transducers, Nano (bio) chemical sensors and sensor miniaturization, Selective synthetic receptors (nucleic acid analogs, aptamers, molecularly imprinted polymers, ionophores, etc.), Biomedical and environmental application of sensors.

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Exhaust gas sensors, Solid state gas sensor materials, Solid state gas sensor principles, Solid state gas sensor technology and Solid state gas sensor modeling; Solid state electrochemical sensors; Framework-based sensing materials (zeolites, MOF); Transducer technology, LTCC, HTCC, hot plates; Chemical sensors for harsh environments.

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Optical sensors and mass sensitive devices, applications and instrumentation.

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hydrothermal method, solvothermal method, thermal evaporation, sputtering, atomic layer deposition and so on); Gas sensing mechanism 2) Gas sensors using solid electrolytes, Automotive exhaust gas sensors (oxygen sensors, air-to-fuel ratio sensors, automotive hydrocarbon sensors, automotive NOx sensors using solid electrolytes such as yttria stabilized zircona and gadolinia-doped ceria).

D. Papkovsky, University College Cork, Cork, Ireland

1) Optochemical sensors; Optical Oxygen sensors; Biological applications of optical oxygen sensing and imaging; 2) Probes for chemical and biological analytes; Intracellular probes; Sensors for analysis of cellular function; 3) Nano sensors and biosensors, Fluorescence spectroscopy; Time-resolved Flourescence, Phosphorescence Porphyrins.

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Sensors & Actuators, B: Chemical is an interdisciplinary journal dedicated to covering research and development in the field of chemical sensors, actuators, micro- and nanosystems.
The scope of the journal encompasses, but is not restricted to, the following areas:
• Sensing principles and mechanisms
• New materials development (transducers and sensitive/recognition components)
• Fabrication technology including nanotechnology
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• Gas sensors
• Biosensors
• Bio-MEMS
• Analytical microsystems
• Environmental
• Process control
• Biomedical applications
• Signal processing
• Sensor and sensor-array chemometrics

µTAS - Micro Total Analysis Systems *Microsystems for the generation, handling and analysis of (bio)chemical information*. The special section of Sensors & Actuators, B: Chemical on µTAS is dedicated to contributions concerning miniaturised systems for (bio)chemical synthesis and analysis, also comprising work on Bio-MEMS, Lab-on-a-chip, biochips and *microfluidics*.

Topics covered by the µTAS section include:
• Lab-on-a-chip
• Physics and chemistry of microfluidics
• Microfabrication technology for µTAS
• Analytical chemical aspects
• Detectors, sensors, arrays for µTAS
• µTAS applications
• DNA analysis
• Microinstrumentation
• Microsystems for combinatorial chemistry

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