TABLE OF CONTENTS

- Description p.1
- Audience p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

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
- 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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Academic and Industrial Researchers in Analytical Chemistry and Instrument Development

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Aims and Scope

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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- 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
- 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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Sensors and Actuators B: Chemical, publishes full length research papers and review articles, and short communications. Review articles may only be submitted upon invitation from an Editor of the journal. Direct submission of unsolicited review articles without previous permission of an Editor will not be considered for publication. Full length papers should in general not exceed 5000 words or about 12 printed pages including tables and diagrams. Short communications should not exceed 2000 words or 4 printed pages. For all contributions the acceptance criteria are quality, originality, and scientific and technological relevance to the field. An adequate referencing to the state-of-the-art is essential.

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