



# 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
- 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.

### AUDIENCE

Academic and Industrial Researchers in Analytical Chemistry and Instrument Development

### IMPACT FACTOR

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Semiconductor gas sensors including metal oxide-based and polymer-based gas sensors, humidity sensors based on any principles, Sensing principles and mechanisms of semiconductor gas sensors, Nanstructured materials and carbon-based materials for gas sensor applications.

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**Dmitri Papkovsky**, University College Cork, Cork, Ireland

Fluorescence spectroscopy, Time-resolved fluorescence; Oxygen sensors; Sensor material chemistry.

**Hiroaki Suzuki**, University of Tsukuba, Tsukuba, Ibaraki, Japan

**Udo Weimar**, Eberhard-Karls-Universität Tübingen, Tübingen, Germany

Chemical sensor systems, data processing of chemical sensor systems, related pattern recognition and multi-component analysis, electronic noses, application of chemical sensor systems. Metal-oxide chemical gas sensors, polymer based chemical gas sensors, innovative gas sensor solutions, sensing principles and mechanisms.

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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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[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

Reference to a website:

[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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