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Guide for Authors – Sensors and Actuators B

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
- Actuators
- Optical devices
- Electrochemical devices
- Mass-sensitive devices
- Gas sensors
- Biosensors
- Bio-MEMS
- Analytical microsystems
- Environmental
- Process control
- Biomedical applications
- Signal processing
- Sensor and sensor-array chemometrics

μ TAS - Micro Total Analysis Systems *Microsystems for the generation, handling and analysis of (bio)chemical information*. The special section of *Sensors & Actuators, B: Chemical* on μ 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 μ TAS section include:

- Lab-on-a-chip
- Physics and chemistry of microfluidics
- Microfabrication technology for μ TAS
- Analytical chemical aspects
- Detectors, sensors, arrays for μ TAS
- μ TAS applications
- DNA analysis
- Microinstrumentation
- Microsystems for combinatorial chemistry

Types of contribution

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Abstract

All papers should have an **Abstract** on a separate sheet. The abstract (preferably 50-200 words) should comprise a brief and factual account of the contents and conclusions of the paper as well as an indication of any new information presented and its relevance. Complete sentences should be used, without unfamiliar abbreviations or jargon. The use of the present tense is customary.

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[1] C. di Natale, F.A.M. Davide, A. D'Amico, W. Göpel, U. Weimar, Sensor array calibration with enhanced neural networks, *Sens. Actuators, B, Chem* 18-19 (1994) 654-657.

[2] A. Nadai, *Theory of Flow and Fracture of Solids*, vol. 1, 2nd ed., McGraw-Hill,

New York, 1950, p. 350.

[3] B. Danielsson and K. Mosbach, in: K. Mosbach (Ed.), *Methods in Enzymology*, vol. 137, Academic Press, New York, 1988, pp. 181-197 (Chapter 16).

[4] K.E. Petersen, *Silicon sensor technologies*, Tech. Digest, IEEE Int. Electron Devices Meet., Washington, DC, USA, Dec. 2-7, 1985.

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For example:

$$A/b = x^2 / (u + v)^{1/2}$$

It is recommended that natural logarithms should be denoted by ln while decade logarithms should be denoted by lg.

Exponentials are better written as exp(a) than ea. The multiplication sign should be used in floating point numbers to

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Spellings used for some common words

Aging
Antireflection
Artifact
bandbending
bandgap
bandwidth
co-evaporate
cross section
cross-sectional
crosstalk
feedback (adj.)
flat-band (adj.)
Gaussian
Kirchhoff
Lifetime
Linewidth
Microelectronics
micromechanics
midpoint
multilayer
multi-target

non-crystalline
n-type (adj.)
open-circuit (adj.)
photoemission
photogenerate
photoresist
p-type (adj.)
printout
readout
reverse-bias (adj.)
rod-like (adj.)
semicontinuous
short-circuit (adj.)
single-crystal (adj.)
stepwise
submicron
thermoelectric
ultrahigh
waveband
waveform
wavelength
wavenumber

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