



sensors



an Open Access Journal by MDPI

Recent Trends and Advances in Lab-on-a-Chip

Guest Editor:

Dr. Sándor Valkai

Institute of Biophysics, Biological
Research Centre of Hungarian
Research Network, Temesvári krt.
62, 6726 Szeged, Hungary

Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editor

Dear Colleagues,

The Lab-on-a-Chip Devices are standing about the doorsteps of our homes, ready to get really wide-spread. In one of their ancestors, microelectronic chips, several different electronic units are made on the same plate. To produce them micro lithography with microresists (photopolymers) was needed. Not much time later, photopolymer structures were also used as building blocks for devices of integrated optics (where optical waveguides function as wires for light). From there it was just another jump to utilize these structures as molds for microchannels, so microfluidics was born. In some cases these structures were created for performing chemical reactions (taking the advantage of small size, meaning small amount of reagents). In the Lab-on-a-Chip devices (very often) microelectrodes and integrated optical waveguides are combined with microchannels, as a kind of reunion of the elder and younger members of the integrated micro-family. The purpose of this special issue is to show as much as possible of the huge variety of applications and new possibilities that Lab-on-a-Chip technology could provide to us, and eventually to let it ring our doorbells.



mdpi.com/si/103542

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)