

Special Issue

Cantilever Sensors for Industrial Applications

Message from the Guest Editors

Dear colleagues, Cantilevers, as the most basic micromechanical spring–mass system, have recently shown increasing potential for commercial application beyond atomic force microscopy (AFM). Cantilevers of various designs and dimensions can complete sensing and monitoring tasks in many application fields.

According to their design, self-sensing cantilevers are suitable for tactile probing of micron-sized surfaces or with large-scale workpieces in production environments.

They can measure the material surfaces and coatings, including properties inside hard-to-access high-aspect-ratio structures, such as microholes and other irregular vertical objects. Further, cantilever force sensors are usable in grippers of next-generation robotic systems and biomedical instrumentations or as precisely calibrated transferable reference standards to be disseminated by national metrology institutes. The aim of this Special Issue is to gather original contributions or review papers from researchers that are actively engaged in developing new ideas of cantilever sensors for various applications in industry. Link:

<https://www.mdpi.com/si/66639>

Guest Editors

Prof. Dr. Erwin Peiner

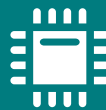
Technische Universität Braunschweig, Institute of Semiconductor Technology (IHT), Hans-Sommer-Str.66, Laboratory for Emerging Nanometrology (LENA), Langer Kamp 6a, D-38106 Braunschweig, Germany

Dr. Uwe Brand

Department 5.1 Surface Metrology, Physikalisch-Technische Bundesanstalt, Bundesallee 100, 38116 Braunschweig, Germany

Deadline for manuscript submissions

closed (25 March 2022)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.3
Indexed in PubMed



[mdpi.com/si/66639](https://www.mdpi.com/si/66639)

Sensors

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://www.mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.3
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

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

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)