

## Special Issue

# Humidity Sensors: Advances in Reliability, Calibration and Application

### Message from the Guest Editors

Humidity detection has come a long way since the use of wet bulb psychrometry. Many electronic sensor-based methods are becoming available for detecting and reporting relative humidity. However, as one moves further away from the physical measurement of any property, the issues of reliability and accuracy of calibration become increasingly important. In the case of humidity, the property of the sensor that enables the measurement to be made can also be the property that can lead to problems with the calibration and sensitivity, as well as recovery of the sensor: all of which can limit uptake and application of the sensors. The aim of this Special Issue is to present some of the possibilities that humidity sensors offer, focusing on the different configurations that can be used and novel applications in any field. In addition, selected high quality papers from IFOST 2018 (<http://www.ifest2018.org/IFOST2018/>) will be invited for further consideration regarding publication in this Special Issue. [...] Link: [http://www.mdpi.com/journal/sensors/special\\_issues/humidity\\_sensors](http://www.mdpi.com/journal/sensors/special_issues/humidity_sensors).

---

### Guest Editors

Prof. Dr. Peter W. McCarthy

1. Faculty of Life Science and Education, University of South Wales, Treforest, Pontypridd CF37 1DL, UK
2. Faculty of Health Sciences, Durban University of Technology, Durban 1334, South Africa

Prof. Dr. Zhuofu Liu

The Higher Educational Key Laboratory for Measuring and Control Technology and Instrumentations of Heilongjiang Province, Harbin University of Science and Technology, Harbin 150080, China

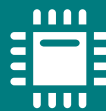
Dr. Vincenzo Cascioli

Murdoch University Chiropractic Clinic, Perth, WA, Australia

---

### Deadline for manuscript submissions

closed (30 December 2018)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/14407](http://mdpi.com/si/14407)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
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

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)