



## Recent Advances in Quartz Crystal Microbalance-Based Sensor Applications

Guest Editor:

**Prof. Dr. Salih Okur**

Karlsruhe Institute of Technology,  
Institute of Functional Interfaces,  
Chemistry of oxydic and organic  
Interfaces, Hermann-von-  
Helmholtz-Platz 1, Geb. 330, R.  
324, 76344 Eggenstein-  
Leopoldshafen, Germany

Deadline for manuscript  
submissions:  
**closed (30 August 2022)**

### Message from the Guest Editor

This Special Issue of *Chemodosensors* is dedicated to the discussion of the state of the art in QCM sensors with challenging material-coating techniques not only for gas/liquid phase and biosensing but also for primary industries such as agriculture and aquatic products in industry.

- QCM-based gas sensors
- Electrochemical quartz crystal microbalance (EQCM)
- QCM-based sensors with biofunctional materials and food inspection
- Application of QCM for medical diagnosis
- Protein immobilization, cell attachment, cell adhesion
- Drug discovery and complex biopolymeric/biomolecular systems
- QCM-based biosensors modified with molecular imprinted polymers
- Quartz crystal microbalance with dissipation monitoring analysis using QCM/QCM-D
- Chiral recognition, odor classification, and composition analysis
- Multichannel QCM array systems, QCM-based electronic nose, and electronic tongues





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Nicole Jaffrezic-Renault**

Institute of Analytical Sciences,  
UMR CNRS 5280, Department  
LSA, 5 Rue de La Doua, 69100  
Villeurbanne, France

## Message from the Editor-in-Chief

*Chemosensors* is an international, scientific, open access journal on the science and technology of chemical sensors published by MDPI. All articles are released on the internet immediately following acceptance. The journal publishes reviews, regular research papers, and communications. The scope of Chemosensors includes:

New chemical sensors design

Electrochemical devices, potentiometric sensor, redox electrode

Optical chemical sensors

Analytical methods

Environmental monitoring

Gas detectors

electronic nose, etc.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

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

## Contact Us

*Chemosensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/chemosensors](http://mdpi.com/journal/chemosensors)  
[chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)  
[X@chemosens\\_MDPI](https://twitter.com/chemosens_MDPI)