

## Special Issue

# Implementation of Carbon Nanodots in Sensing Applications for Biotechnological Advancement

### Message from the Guest Editor

Carbon nanodots have attracted broad research interest for years, because of their diverse physicochemical properties and favorable attributes like good biocompatibility, unique optical properties, low cost, Eco-friendliness, abundant functional groups, high stability, and electron mobility. Carbon nanodots have a huge impact on both health and environmental applications because of their potential to serve as nontoxic replacements for traditional heavy metal-based quantum dots. Carbon dots have been widely used as fluorescent probes for detecting various analytics in the environment or biological systems due to their intrinsic fluorescent properties, high sensitivity, quick response, low cost, and simple preparation methods. Because of their low toxicity, excellent biocompatibility, and photo-stability, carbon dots also provide promising probes for efficiently targeting and imaging cancer cells, and identifying and detecting bacteria. In this Special Issue, manuscripts on current advanced biotechnological research on carbon nanodots, carbon nanodots, graphene quantum dots and carbonized polymer dots will be considered for publication after peer reviewed process.

### Guest Editor

Prof. Dr. Mohammad Amjad Kamal

1. Institutes for Systems Genetics, Frontiers Science Center for Disease-Related Molecular Network, West China Hospital, Sichuan University, Chengdu, China
2. King Fahd Medical Research Center, King Abdulaziz University, Jeddah 21589, Saudi Arabia
3. Department of Pharmacy, Faculty of Allied Health Sciences, Daffodil International University, Dhaka 1207, Bangladesh
4. Enzymoics, 7 Peterlee Place, Hebersham, NSW 2770, Australia
5. Novel Global Community Educational Foundation, Hebersham, Australia

### Deadline for manuscript submissions

closed (30 January 2024)



## Sensors

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/148039](https://mdpi.com/si/148039)

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





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
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)