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Implementation of Carbon Nanodots in Sensing Applications for Biotechnological Advancement

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

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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.

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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

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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