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Editorial for a showcase issue for India

Dear Readers,

It gives us immense pleasure to present this special issue that aims to highlight the ongoing research being carried out in the area of sensors and actuators in India. The issue comprises of both original research as well as review articles. A review article on ZnO nano-structured devices for chemical and optical sensing applications provides a systematic and comprehensive guide to the readers on the use of one of the most explored functional metal oxides (ZnO) in remarkably diversified applications such as biomedical, environmental, and optical sensing. Further, this issue contains an article on perovskites for chemometric assisted simultaneous detection of trace amounts of heavy metal ions in biological samples. Apart from reporting well-established and emerging nanomaterials in the field of sensing, there are articles on various analytical detection techniques that are optical, and fluorescence based. An article on TiO₂ nanoparticles based non-enzymatic label-free optical sensor for the rapid detection of L-lactate in apple juice would be of great interest to the scientific community working in the area of food quality and safety. Other works include a research paper on the colorimetric detection of zinc sulfate ions using a tetra-(4-pyridylphenyl) ethylene as an active sensing material and an article on electrochemical immunosensor for detection of cardiac troponin-I.

The limited articles published in the special issue are not representative of the true magnitude of sensors research being carried out in

India. But we are hopeful that this issue gives an overall idea about the versatility of the ongoing research in India, and you find the issue worth reading.

We will be back with more special issues in the future that have much more extensive coverage of the topics of interest for the readers of this journal.

Thank you for taking the time to read!

Dr. Sushmee Badhulika, Prof. Siddhartha Panda

Guest Editors

Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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