

Special Issue On “Nano-Materials for Energy, Environmental and Health”

Among the critical global issues, “Clean energy”, is of immense significance to our progressive future. Despite the effort that has been made to improve the efficiency of fuel resources to deliver energy but equally we face the sever challenges on other fronts. In the case of solar power, for example, nanotechnology holds the promise of cutting the cost of photovoltaics to larger extent.

Similarly, Scientists have long worked to understand the environment and humanity’s place in it. The excitement and challenge of understanding the complex environmental systems humans depend on make the environmental sciences centrally important as humankind attempts a transition to a more sustainable relationship with the earth and its natural resources.

In a similar manner, Nanobiotechnology is the study of imitating biological motifs into improving existing nanotechnologies for a luxurious and fear-free life. A technology must sense and respond to damage, restoring the materials performance without affecting the overall properties of the system. This would make the material safer, more reliable, longer lasting and require less maintenance and thus reduce costs.

This special issue is intended to acquire the latest achievements of scientists working in Nanosciences and Nanotechnology with special emphasis on Energy, Environment and Health. Contributors to this special issue are encouraged to submit manuscripts on topics that include but not limited to:

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| • Advanced Nano-Materials | Nano Fabrication | Devices & Sensors |
| • Functional Biomaterials | Health care & Medicine | Nano Medicine |
| • Energy & Environment | Energy conversion | Storage & Solar cells |
| • Nanocomposites | Information Technology | applications |

Keywords: Nanomaterials, Energy harvesting devices; piezoelectric materials; nanostructured semiconductors; Nano medicine, devices and sensors, Water, Agriculture, Food and soil.

Guest Editors

Dr. M.A. Shah working in the Post Graduate Department of Physics, National Institute of Technology Srinagar has doctoral degree in Condensed Matter Physics from Jamia Millia Islamia, (Central University) New Delhi. During his academic career within India and outside, he has published as many as 100 SCI research articles, covering the contemporary developments of Nanotechnology. In addition, he has authored two text books on Nanoscience with reputed publishers, edited three books on different aspects of Nanotechnology and number of articles.

Dr. A. H. Sofi Ph.D. from National Institute of Technology Srinagar, J&K, India, in December, 2018 under the supervision of Dr. M. A. Shah, Department of Physics, NIT Srinagar. Published six Papers as first author and six papers as co-author. Further, published one book, “Nanotechnology: An Insight” with Lambert Publishers, Germany.

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