

## Tentative Outline

### **Special Thematic Issue for Current Pharmaceutical Biotechnology**

**Title of thematic issue:** Synthesis, characterization and applications of Green Synthesized Nanomaterials

**Guest Editors:** Ratiram Gomaji Chaudhary and Martin Federico Desimone

#### **Aims & Scope:**

There is a growing interest in the development of eco-friendly, cost-effective and straightforward methods for the synthesis of nanomaterials. The driving force of this interest is the possibility to avoid toxic or contaminant chemicals and lower energy consumption. In green synthesis methods different materials from biological origin like microorganism, cells, plants or their enzymes or extract were employed with the focus on a greener environment minimizing generated waste and implementing sustainable processes. For example, the phytosynthesis of nanostructured material is an extremely captivate and challenging approaches to all the researchers due to the presence of phytochemicals agents in the extracts like carbohydrates, flavonoids, saponins, proteins, amino acids, chromone, steroids, phytol and terpenoids. The phytochemicals present in the plant extracts play a key role in the improvement of reduction rate, size and stabilization by acting as a good reducing, surfactants, structure directing and capping agents. Therefore, this themed issue welcomes articles reviewing the green synthesis of nanomaterials with various biological systems, especially the emphasis is placed on the mechanisms of nanomaterials synthesis, spectroscopic characterization and their applications in different fields.

**Keywords:** Green synthesis; Phytosynthesis; Nano-Micro materials; Metal/Metal oxide nanoparticles, Catalysis, Photocatalytic degradation; Electrochemical performances; Remediation; Therapeutic nanoparticles; Biotechnology assay; Antimicrobial.

#### **The subtopics to be covered within this issue are listed below:**

- Novel eco-friendly approaches for the fabrication of nanomaterials
- Phyto/biosynthesis of nanomaterials
- Characterization of green synthesized nanoparticles
- Therapeutic and diagnostic applications
- Antioxidant, antimicrobial and catalytic activity
- Remediation and environmental applications of green synthesized nanoparticles
- Nanotoxicology
- Electrochemical performances

**Schedule of Review Article:**

- Tentative Abstract Submission: September 30 **2020**
- Manuscript Submission Deadline: **October 15<sup>th</sup> 2020**
- Peer-Review Due: **November 15, 2020**
- Revision Due: **December 7, 2020**
- Announcement of Acceptance by the Guest Editors: **Dec 31, 2020**

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Sr. No.	Name of Authors	Affiliation	Corresponding Email	Topic	Reminder for Submission (15/5/2020)	Review Article Submission (30/5/2020)	Reminder For Revision (20/7/2020)	Revised Article Submission (30/7/2020)	Decision On Article (15/8/2020)	Galley-Proof Of Article (30/8/2020)	Date of Publication (15/9/2020)
01	Prof. N. B. Singh	Sharda University, Greater Noida, <b>India</b>	nbsingh43@gmail.com	Green Synthesis of Nanomaterials							
02	Prof. A.A. Abdalla	Chemical Engineering Program, Texas A&M University at Qatar, Doha, <b>Qatar</b>	ahmed.abdalla@qatar.tamu.edu	Graphene Oxide Membranes for Water Treatment							
03	Prof. Mridula Guin & Prof. Sushan	Department of Biochemistry, Sharda University, Greater Noida, and Department of Chemistry, Dhaka University, Dhaka, <b>Bangladesh</b>	mridula.guin@sharda.ac.in	Remediation and environmental applications of green synthesized nanoparticles							
04	Prof. Tokeer Ahmad	Jamia Milia Islamia, New Delhi, <b>India</b>	tahmad3@jmi.ac.in	Gold Nanoparticles for Organic Transformation							
05	Prof. R.G. Chaudhary & A.Jay Potbhare & Martin Desimone	S. K. Porwal College of Arts, Science and Commerce, Kamptee, <b>India</b>	chaudhary_rati@yahoo.com <b>Or</b> ajaypotbhare2@gmail.com	Bio-inspired Fabrication and Applications of Graphene Based Nanomaterials							
06	Prof. Martin Desimone & Prof. R.G. Chaudhary	Buenos, <b>Argentina</b>	martinfdesimone@gmail.com								
07	Prof. Vikas Gite	Jalgaon University, Jalgaon,	vikasgite123@gmail.com	Responsive Biobased Nanohydro							



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