

EnNan2018 – Environmental Nanotechnology



Leonardo F. Fraceto, Renata de Lima, Halley Caixeta de Oliveira, Daiana Silva de Ávila, Bin Chen

1. Call for papers for a Special Issue of E3 on ‘Environmental Nanotechnology – EnNan2018’

The Environmental Nanotechnology special issue is an interdisciplinary forum of discussions about the aspects of this new technology, as well as, its innovation in the environmental area, contributing to the education of undergraduate and graduate students and also as an interchange and exchange of experiences among the invited speakers and professors, researchers and students of several post-graduation programs, contributing to the generation and spreading of knowledge in the environmental nanotechnology area. The aim of this special issue is to compile discussions regarding to the aspects related to the environmental applications of Nanotechnology, as well as, the methods and techniques to the study of nanoparticles in the environment. Besides, it will be approached some aspects related to the toxicity of the nanomaterial and its possible impacts in the environment. In this context, the present special issue will be a forum on spread of knowledge and improvement for researchers, professors and undergraduate and graduate students from this research field.

2. Thematic areas

This special issue is targeted to researchers that develop studies in the theme. The manuscript can be submitted in the following areas:

- Sustainable nanotechnology
- Environmental applications of nanotechnology
- Agriculture applications
- Toxicity of nanomaterials
- Fate of pollutants in the environment
- Analytical methods aiming environmental applications

We invite the contributors to submit manuscripts in the following types: original full-length research articles, short communications, mini reviews, reviews, case studies, meta-analysis and perspective articles.

3. Tentative schedules

- Call for papers: December 2018
- Submission of Manuscript: From January 2019 to April 2019

- Peer review/paper revision process: May 2019 – July 2019
- Decision deadline of all revised papers: August 2019
- Publication of Special Issue: September 2019

4. Preparation of manuscript

The manuscript must be prepared in accordance of the guidelines provided by Energy, Ecology & Environment. Please visit the journal homepage (www.springer.com/energy/journal/40974) for more details. Authors need to select the option EnNan2019 to submit your manuscript at E3 system.

5. Editors

Leonardo F. Fraceto, Department of Environmental Engineering, UNESP–São Paulo State University, Avenida Três de Março, nº 511, 18087-180 Sorocaba, SP, Brazil, Email: leonardo.fraceto@unesp.br

Renata Lima, Department of Biotechnology, University of Sorocaba, Rodovia Raposo Tavares, Km 92.5, 18023-000 Sorocaba, SP, Brazil, Email: renata.lima@prof.uniso.br

Bin Chen, State Key Joint Laboratory of Environment Simulation and Pollution Control, School of Environment, Beijing Normal University, E-mail: chenb@bnu.edu.cn

Halley Caixeta de Oliveira, Department of Animal and Plant Biology, UEL-State University of Londrina, Rodovia Celso Garcia Cid, Km 380, 86057-970, Londrina, PR, Brazil, E-mail: halley@uel.br

Daiana Silva de Ávila, Pampa Federal University- UNIPAMPA, BR 472, Km 592, PO Box 118, 97501-689, Uruguaiana, RS, Brazil, E-mail: daianaavila@unipampa.edu.br

6. References

- Pascoli, M.; Lopes-Oliveira, P.J.; Fraceto, L.F.; Seabra, A.B.; Oliveira, H.C.; State of the art of polymeric nanoparticles as carrier systems with agricultural applications: a minireview. *Energy, Ecology and Environment* (2018) 3, 137-148.
- Fraceto, L.F.; de Lima, R.; Oliveira, H.C.; Ávila, D.S.; Chen, B. Future trends in nanotechnology aiming environmental applications. *Energy, Ecology and Environment* (2018) 3, 69-71.
- Grillo, R.; Abhilash, P.C.; Fraceto, L.F. Nanotechnology Applied to Bio-Encapsulation of Pesticides. *Journal of Nanoscience and Nanotechnology* (2016) 16, 1231-1234.
- Fraceto, L.F.; Grillo, R.; Medeiros, G.A.; Scognamiglio, V.; Rea, G.; Bartolucci, C. Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. *Frontiers in Environmental Science* (2016) 4, p. 1-5.
- Campos, E.V.R.; Oliveira, J.L.; Pascoli, M.; Lima, R.; Fraceto, L. F. Neem Oil and Crop Protection: From Now to the Future. *Frontiers in Plant Science* (2016) 7, 1494.

- Grillo, R.; Rosa, A.H.; Fraceto, L. F. Engineered nanoparticles and organic matter: A review of the state-of-the-art. *Chemosphere* (2015), 119, 608-619.
- Karami Mehrian, S.; Lima, R. Nanoparticles cyto and genotoxicity in plants: Mechanisms and abnormalities. *Environmental Nanotechnology, Monitoring & Management* (2016) 6, 184-193.
- Seabra, A.B.; Paula, A.J.; Lima, R.; Alves, O.L.; Durán, N. Nanotoxicity of Graphene and Graphene Oxide. *Chemical Research in Toxicology* (2014) 27, 159-168.