

Thematic Issue Proposal

“Current Nanomaterial”

Guest Editor

Prof. S M Sohel Murshed
Faculdade de Ciências, Universidade de Lisboa
1749-016 Lisbon, Portugal

The title of the thematic issue of CNM: Nanocarbons for Heat Transfer Applications

Issue descriptions:

Because of the rapid advancement of nanoscience and nanotechnology and immense potential applications of nanomaterials, research on nanocarbons has received great interest from researchers and academics of multidisciplines. Nanocarbons are also very popular to prepare nanofluids for their heat transfer enhancer and applications. With their high thermal properties when carbon nanostructures such as carbon nanotubes are dispersed in conventional fluids, they exhibit novel or significantly enhanced effective properties (e.g., thermal conductivity) as compared to those base fluids. The next-generation technology sectors particularly advanced cooling technologies can greatly be benefited by employing such engineered fluids based nanocarbons.

This special issue is expected to attract researchers and academics from emerging area of carbon based-nanomaterials and nanofluids as well as material scientists, physicists, and engineers.

Topics include but are not limited to:

- Synthesis and characterization of carbon nanotubes and carbon nanofibers.
- Morphology and characteristics of nanocarbons dispersed in fluids.
- Carbon nanotubes nanofluids and their thermal properties.
- Carbon nanotubes and nanofibers as heat transfer enhancers.
- Graphene and their applications.
- Other carbon nanostructures.

Publication timelines:

Title and abstract due:	August 31, 2017
Manuscript due:	October 15, 2017
First round reviews:	November 15, 2017
Final manuscript due:	December 10, 2017
Publication:	January 2018