

MATERIALS FOCUS

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A Special Issue on

Functional nano-dimensional organo-clay hybrids

CALL FOR PAPERS

This special issue will be devoted to the new developments in organo-clay hybrid films. It will include several invited papers, feature articles and contributory articles.

Clays are natural nanomaterials having layered structures, consisting of nanometer sized alumino-silicate nanoplatelets, with a unique combination of swelling, intercalation, and ion exchange properties that make them ideal host for incorporation of organic materials and preparation of valuable nanostructures with diverse field of applications such as catalysis, templates in organic synthesis, nano-fillers of engineering polymers or building blocks for composite materials and in optoelectronic devices. The organic molecules when incorporated onto nanoclay show improved functionality e.g. energy transfer, two photon absorption, second harmonic generation etc.

Study of organo-clay hybrid films offer unique opportunities to increase fundamental understanding of self-organization, structure-property relationships and the functionality as well as their application. Integrated research efforts by Physicists, Chemists, Biologists and Engineers are necessary in order to explore this emerging field of organo-clay nano films.

TOPICS (BUT NOT LIMITED TO):

This special issue will cover (but not limited to) following topics:

- Self-assembly of organo-clay hybrid material
- Supramolecular chemistry
- Interfacial assembly
- Organo-clay hybrid films using
 - (i) Langmuir – Blodgett technique

- (ii) Layer-by-Layer self assembly
- (iii) Spin coating
- Organo-clay based nanostructure
- Functionality of organo-clay hybrid films
- Application of organo-clay hybrid materials
- Other areas related to organo-clay hybrid

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IMPORTANT DATES:

Last dates of manuscript submission: **31st December, 2017.**

Expected date of publication: **30th March, 2018**

MANUSCRIPT SUBMISSION:

- Manuscripts must be prepared according to Journal's guidelines, available at <http://www.aspbs.com/mat.htm>. Submit your manuscripts in MS word and PDF format online to the email addresses - **sa_h153@hotmail.com / sahussain@tripurauniv.in**
- In the cover letter, please mention that the manuscript is submitted for the special issue. All papers submitted to this issue will be subject to a strict peer review process to ensure high quality articles. Mention the name of three potential referees with their contact address and designation in the cover letter.

- Authors should submit a statement of novelty and originality in the cover letter to ensure that that the submitted paper is original and it is neither published previously nor submitted to any other journal presently and will not be submitted somewhere else before a final decision is made by this journal.