

# MATERIALS DIVISION TECHNICAL COMMITTEES

## **Committee on Nanomaterials for Energy**

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Nanomaterials are at the leading edge of the rapidly developing field of nanotechnology. Their unique size-dependent properties make these materials superior and indispensable in many areas of human activity. The proposed new Technical Committee on Nanomaterials for medicine is expected to bring together different disciplines of engineering, biology and medicine to review the current state of the art in the field of nanomaterials as well as discuss their novel applications, current challenges, and opportunities.

A list of some of the applications of nanomaterials to biology and/or medicine is given below:

- Fluorescent biological labels
- Drug and gene delivery
- Bio-detection of pathogens
- Detection of proteins
- Probing of DNA structure
- Tissue engineering
- Tumor destruction via heating
- Separation and purification of biological molecules and cells
- Medical imaging

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