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TMS 2018
147th Annual Meeting & Exhibition

MARCH 11 – 15, 2018
PHOENIX, ARIZONA

SUBMIT AN ABSTRACT TO:

NANOSTRUCTURED MATERIALS

2018 SYMPOSIUM ON FUNCTIONAL NANOMATERIALS: DISCOVERY AND INTEGRATION OF NANOMATERIALS

Nanomaterials are a class of materials with morphology, properties, and structure or performance dominated by phenomena attributed to the "nano" length scale (<100 nm). These materials enable new opportunities for future technological innovation, because they exhibit novel mechanical, biological, electrical, optical, and magnetic properties that are absent in their bulk counterparts.

The 2018 Functional Nanomaterials symposium will include the discovery and synthesis of novel nanomaterials while addressing the integration of conventional nanomaterials into functional architectures. Both conventional nanomaterials sessions and focused sessions will be held. Topics of interest for conventional nanomaterials sessions include:

- Synthesis, characterization, and device applications of nanomaterials including nanoparticles, nanowires, nanoribbons, carbon-based nanomaterials, thin films, quantum dots, etc.
- Use of nanomaterials in electronic, optic (photonic), magnetic, biological, mechanical, thermal management, catalysis, sensing, energy harvesting/storage/conversion or other scientific applications
- Nanoscale modeling studies

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