

TMS2016

145th Annual Meeting & Exhibition

FEBRUARY 14-18 DOWNTOWN NASHVILLE,
TENNESSEE MUSIC CITY CENTER

Connecting the Global Minerals, Metals, and Materials Community.



2016 Functional Nanomaterials: Emerging Nanomaterials and Techniques for 3D Architectures

The 2016 Functional Nanomaterials symposium will address unique functional properties of nanomaterials with an emphasis on emerging materials and techniques for 3D 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, magnetic, mechanical, thermal management, catalysis, sensing, energy harvesting/storage/conversion or other scientific applications
- Nanoscale modeling studies

Topics of interest for focused sessions include:

- Direct synthesis of nanomaterials into 3D architectures
- Unique techniques (e.g., compressive buckling, Dip Pen Lithography, direct laser writing, different 3D printing methods, etc.) for assembly of nanomaterials into 3D architectures
- Design and synthesis of printable functional nanomaterials for electronics, energy, and structural and biological applications
- Fundamental physical and chemical behaviors of nanomaterials observed during the creation of 3D architectures
- Engineering applications of bulk structural nanomaterials and integration of functional nanomaterials into devices

Organizers include:

Terry Xu, University of North Carolina at Charlotte (USA)

Nitin Chopra, The University of Alabama (USA)

Jung-Kun Lee, University of Pittsburgh (USA)

Jiyoung Kim, University of Texas (USA)

V.U. Unnikrishnan, The University of Alabama (USA)

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