ADDITIVE MANUFACTURING

Nano and Micro Additive Manufacturing

Additive manufacturing has immense potential for design flexibility and simplified processing for precision, high resolution structures with robust mechanical properties. This symposium will focus on novel techniques, feedstock materials, characterization, and predictive simulations for additive manufacturing of structures with nano to microscale dimensions, as well as bulk structures with tailored internal nano/microscale features.

Topics of interest include additive techniques based on (but not limited to) multiphoton lithography, laser or e-beam sintering/melting, cold spray, aerosol deposition, inkjet, electrodeposition and hybrid methods, material systems including polymers, metals, ceramics, and nanocomposites. The mechanical behavior and lifetime of nano and micro additively manufactured materials and structures are also of interest in this symposium.

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