

## **S9-4 Powder Processing for Advanced Manufacturing Technologies**

### **SHORT DESCRIPTION:**

Powder processing is indispensable for productive manufacturing of high-reliable advanced ceramics. It can also enhance the functionality of materials to enable new and broader applications toward a sustainable society, as like in high-tech clean energy and energy conservation industries. To maximize these features, the entire material processing including powder synthesis, suspension design, and structural control of the granulated feedstock, green body and sintered ceramics must be well-understood and carefully engineered. This symposium focuses on advanced powder processing and manufacturing technologies involving the following session topics:

### **SESSION TOPICS:**

Nanoparticle and powder design, Particle dispersion control in liquid or polymers, Powder process for novel shaping and sintering, Nano/microstructure control, Characterization of particle and powder, Low cost and energy-saving processes, Novel material recycling

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