

Symposium 11: Advanced Powder Processing and Manufacturing Technologies

Powder processing is critical to the economical production of high reliability advanced ceramics, and can also enhance materials functionalities to enable new and broader application in high-technology clean energy and energy-saving industries for sustainable society. To realize these attributes, powder design and synthesis, suspension control, 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 including the following areas:

<PROPOSED SESSION TOPICS>

- Nanoparticle and powder design and synthesis
- Particle coating technology and composite particle fabrication
- Particle dispersion control in liquid or polymers
- Novel forming and sintering technology
- Nano/microstructure control
- Controlled composites or pore structure
- Low cost and energy-saving processes

<ORGANIZERS>

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<INVITED LECTURES>

Tentative invited lecture information is posted in the following URL;

http://www.ceramic.or.jp/pacrim13/list_of_invited_speakers.html#11