

Symposium: Advanced powder metallurgy

Advanced powder metallurgy is the one the important techniques having inherent potential to make materials or parts for the future's tailored, high performance industrial applications. The basic steps of powder metallurgy are powder making, handling, forming, consolidation and finishing. Powders may be produced by mechanical, chemical and physical processes such as chemical reduction and atomization. The powders are shaped by die compaction, hot isostatic pressing, injection molding or special process. The shaped compacts are densified by sintering process to get bulk materials. The residual pores after sintering may be removed by post sintering process. So advanced powder metallurgy covers various material and processing areas. The topics of this session includes:

- . Production of metal powder and particulate materials
- . Aerosol and colloidal process for P/M application
- . Powder and P/M materials characterization
- . Powder shaping and consolidation
- . Sintering and desification process
- . Special process for high performance P/M materials

All accepted papers at the conference will be published in SCI and SCIE journals after peer review such as Computational Materials Science(SCI - 1.87), Research on Chemical intermediate(SCI - 0.88) and Archives of Metallurgy and Materials(SCIE - 0.43)