

グローバルCOE「構造・機能先進材料デザイン教育研究拠点」 講演会案内

中国におけるセラミックス分野の代表的な研究機関である上海セラミックス研究所の元副所長で中国科学アカデミー会員のProf. Jian 先生に、同研究所における環境対応を含むセラミックス研究について講演いただきますので奮ってご参加ください。

世話人 桐原聡秀、宮本欽生 内線8693

日時:12月7日(金) 13:00~14:30
場所:A1棟2階(旧原子力棟) 211号室

Recent Research and Development of Advanced Ceramic Materials in SICCAS

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Abstract:

Advanced ceramic materials are getting more and more important with the developing of economic and high technology. This paper will be concentrating to introduce some recent progress of advanced ceramic material in SICCAS; including porous ceramics, transparent ceramic material and related advanced processing technology. As you all know that the porous ceramic materials with controlling porosity, pore size (from nanometer to millimeter), and pore size distribution have various applications such as catalyze carriers for chemical industrial, drug deliver for medical, filter for environmental protecting and so on. For transparent ceramic materials, it can be use in lighting, laser, transparent armor and some specially demands. Making transparent ceramic with free of pore, raw material and processing technology is a challenge. In order to get specially properties, it is important to control microstructure of material even down to nanostructure, nevertheless, structure of materials has strong related with processing, some novel processing technology (Aqueous tape casting, Gelcasting and so on.) will also be introduce briefly in this article.