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主要研究方向

1. 结构/功能一体化陶瓷基复合材料的设计制备与评价
2. 陶瓷基复合材料的微结构控制及其在航空航天防热部件的应用
3. 极端环境下陶瓷材料的损伤行为与机理
4. 大型复杂薄壁陶瓷构件近净成型
5. 生物介孔材料的合成及其应用

社会兼职

中国硅酸盐学会测试技术分会 理事
兵器工程学会无机材料专业委员会 委员
国家高新技术 863 计划专家库 专家
国家自然科学基金、国家高技术 863 专题项目通讯评审专家
国家优秀博士论文通信评审专家
J.Am.Ceram.Soc.、J. Mater.Res.、Scripta. Mater.、Comp.Sci.Tech.等 10 余种国际刊物审稿人。

主要学术成果

1. L.M. Liu, **F. Ye**, Z.G. Zhang, Y. Zhou, Elongation of α -SiC Particles in Spark Plasma Sintered α -SiAlON/ α -SiC Composites, *J. Am. Ceram. Soc.*, 2011, 94(2): 336-339. (SCI, 影响因子: 1.944)
2. L.M. Liu, **F. Ye**, X. L. He, Y. Zhou, Densification process of TaC/TaB₂ composite in spark plasma sintering, *Materials Chemistry and Physics*, 2011, 126(3): 459-462. (SCI, 影响因子: 2.015)
3. **F. Ye**, L. Zhang, C. F. Liu, L. M. Liu, H. J. Zhang, Thermal shock resistance of in situ toughened α -SiAlONs with barium aluminosilicate as an additive sintered by SPS, *Mater. Sci. Eng. A*, 2010, 527(23): 6368-6371, (SCI, 影响因子: 1.901)
4. **F. Ye**, H. F. Guo, H. J. Zhang, X. L. He, Polymeric micelle-templated synthesis of hydroxyapatite hollow nanoparticles for a drug delivery system, *Acta Biomaterialia*, 2010, 6, 2212-2218. (SCI, 影响因子: 3.975)
5. **F. Ye**, Z. P. Hou, H. J. Zhang, L. M. Liu, Y. Zhou, Spark plasma sintering of cBN/ β -SiAlON composites, *Mater. Sci. Eng. A*, 2010, 527(18-19): 4723-4726. (SCI, 影响因子: 1.901)
6. L. M. Liu, **F. Ye**, Y. Zhou, Z. G. Zhang, Microstructure compatibility and its effect on the mechanical properties of the α -SiC/ β -Si₃N₄ co-reinforced barium aluminosilicate glass ceramic matrix composites, *Scripta Materials*, 2010, 63(2), 166-169, (SCI, 影响因子: 2.949)
7. L. M. Liu, **F. Ye**, Y. Zhou, Z. G. Zhang, Microstructure and Mechanical Properties of Spark Plasma Sintered TaC_{0.7} Ceramics, *J. Am. Ceram. Soc.*, 2010, 93 (10): 2945-2947. (SCI, 影响因子: 1.944)
8. L. M. Liu, **F. Ye**, Y. Zhou, Z. G. Zhang, Q. L. Hou, Fast bonding α -SiAlON ceramics by spark plasma sintering, *J. Eur. Ceram. Soc.*, 2010, 30 (12), 2683-2689. (SCI, 影响因子: 2.090)
9. X. L. He, **F. Ye**, Z. Q. Zhou, H. J. Zhang, Thermal conductivity of Spark Plasma Sintered AlN ceramics with multiple components sintering additive, *J. Alloys Comp.*, 2010, 496(1-2), 413-417, (SCI, 影响因子: 2.135)
10. X.L. He, **F. Ye**, H. J. Zhang, L. M. Liu, Study of rare-earth oxide sintering additive systems for Spark Plasma Sintering AlN ceramics, *Mater. Sci. Eng. A*, 2010, 527(20), 5268-5272, (SCI, 影响因子: 1.901)
11. **F. Ye**, C. F. Liu, L. M. Liu, Optical properties of in situ toughened ScLu- α -SiAlON, *Scripta Mater.*, 2009, 61(10), 982-984, (SCI, 影响因子: 2.949)
12. **F. Ye**, L. Zhang, H. J. Zhang, Rapid densification and reaction sequences in self-reinforced Y- α -SiAlON ceramics with barium aluminosilicate as an additive, *Mate. Sci. Eng. A*, 2009, 527 (1-2), 287-291. (SCI, 影响因子: 1.901)
13. **F. Ye**, Z.W. Dong, H. J. Zhang, n-Hexane isomerization over copper oxide-promoted sulfated zirconia supported on mesoporous silica, *Catalysis Communications*, 2009, 10, 2056-2059. (SCI, 影响因子: 3.0)
14. C.F. Liu, **F. Ye**, L. M. Liu, High-temperature strength and oxidation behavior of Sc³⁺/Lu³⁺ co-doped α -sialon, *Scripta Mater.*, 2009, 60(11), 929-932. (SCI, 影响因子: 2.949)
15. L.M. Liu, **F. Ye**, H.J. Zhang, Celsian Formation in Si₃N₄-Ba_{0.75}Sr_{0.25}Si₂Al₂O₈ Composites, *Scripta Mater.*, 2009, 60(6): 463-466. (SCI, 影响因子: 2.949)
16. **F. Ye**, C.F. Liu, L.M. Liu, Sc³⁺-Lu³⁺-doped α -SiAlONs, *J. Am. Ceram. Soc.*, 2008, 91, 1022-1026. (SCI, 影响因子: 1.944)
17. **F. Ye**, H.F. Guo, H.J. Zhang, Biomimetic synthesis of oriented hydroxyapatite mediated by nonionic surfactants, *Nanotechnology*, 2008, 19 (24): 245605-1-245605-7, (SCI, 影响因子: 3.137)
18. **F. Ye**, L.M. Liu, H.J. Zhang, Refractory self-reinforced Y- α -SiAlON with barium aluminosilicate glass ceramic addition, *Mate. Sci. Eng. A*, 2008, 488 (1-2). 352-357. (SCI, 影响因子: 1.901)
19. **F. Ye**, L.M. Liu, C.F. Liu, High infrared transmission of Y³⁺-Yb³⁺-doped α -SiAlON, *Mater. Letters*, 2008, 62 (30): 4535-4538. (SCI, 影响因子: 1.940)
20. H.F. Guo, **F. Ye**, H.J. Zhang, Tween-60 mediated synthesis of lamellar hydroxyapatite with worm-like mesopores, *Mater. Letters*, 2008, 62 (14), 2129-2132. (SCI, 影响因子: 1.940)