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Work unit: School of Textile and Materials Engineering
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Main research Aera

Main research aera includes special ceramics, ceramic matrix composites, integrated material of thermal insulation and wave-transparent, aerogels, nanoporous ceramics and new type ecological environment materials.

Education

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1. Ph. D: Sep., 2010 - Oct., 2015, School of Materials Science and Engineering, Harbin Institute of Technology, P.R. China
 2. M. Eng.: Sep., 2008 - July, 2010, School of Materials Science and Engineering, Harbin Institute of Technology, P.R. China
 3. B. Eng.: Sep., 2004 - July, 2008, School of Materials Science and Engineering, Harbin Institute of Technology, P.R. China

Scientific Research

Undertaked General Projects by Liaoning Education Department Project, and participated research projects including the projects from Hightech Program of China, Natural Science Foundation of China, and other enterprise.

Representative works and papers

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- [1] Haixia Yang, Feng Ye, Qiang Liu, Ye Gao. Microstructure and properties of the Si₃N₄/silica aerogel composites fabricated by the sol-gel method via ambient pressure drying, *Materials & Design*. 85: 438-443, 2015
 - [2] Haixia Yang, Feng Ye, Qiang Liu, Shichao Liu, Ye Gao, Limen Liu. A novel silica aerogel/porous Si₃N₄ composite prepared by freeze casting and sol-gel impregnation with high-performance thermal insulation and wave-transparent, *Materials Letters*, 138: 135-138, 2015
 - [3] Shichao Liu, Feng Ye, Haixia Yang, Qiang Liu, Biao Zhang. Fabrication and properties of SiC/Si₃N₄ multilayer composites with different layer thickness ratios by aqueous tape casting, *Ceramics International*, 41: 12917-12922, 2015
 - [4] Zhiqiang Zhou, Li Guo, Haixia Yang, et al. Hydrothermal synthesis and magnetic properties of multiferroic rare-earth orthoferrites, *Journal of Alloys and Compounds*, 583: 21-31, 2014
 - [5] Shichao Liu, Feng Ye, Shengqing Hu, Haixia Yang, Qiang Liu, Biao Zhang. A route to increase fracture toughness of layered Si₃N₄/SiC composite using interlocked interfaces, *Ceramics International*, 41: 10331-10335, 2015

Teaching

《Structure and Property of Inorganic Materials》 for graduate student
《Forming and Processing Technique of Inorganic Materials》 for graduate student
《Technology and Application of Composite Materials》 for graduate student
《Technique of Mechanical Signal Processing》 for graduate student
《The recent research developments of Inorganic Materials》 for graduate student
《Piezoelectric Materials and Application》 for undergraduate student
《Thermal Instruments》 for undergraduate student
《Document Retrieval》 for undergraduate student

Contact

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