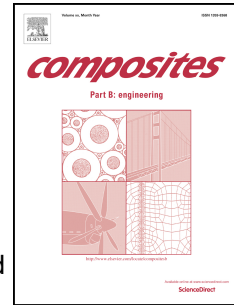


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**Fabrication and Characterization of Three Dimensional Woven Carbon
Fiber/Silica Ceramic Matrix Composites**

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Abstract

Carbon fiber reinforced fused silica composites exhibit the advantages of excellent mechanical properties, high heat resistance, low thermal expansion and low density, but low impact resistance or toughness. A novel modified slurry impregnation and hot pressing method (SIHP) was adopted to fabricate a new type of three dimensional orthogonal woven structure carbon fiber reinforced silica ceramic matrix composites

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