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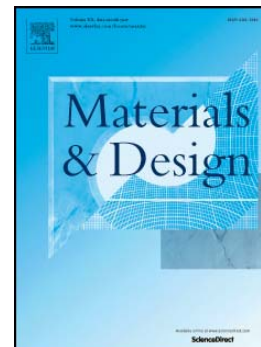
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Preparation, structure and properties of hybrid materials based on geopolymers and polysiloxanes

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Abstract

New hybrid materials with no phase separation up to nanometric level were obtained by performing the *in situ* co-reticulation of an aluminosilicate source (metakaolin), a mixture of dialkylsiloxane oligomers with different degree of polymerization and an alkaline solution. As supported by SEM and NMR analysis, this hybrid material is characterized by a highly interpenetrated structure due to the chemical similarity between the components, resulting in

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