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Three dimensional lightweight lattice structures with large positive, zero and negative thermal expansion

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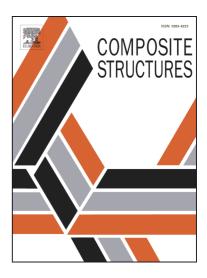
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## ACCEPTED MANUSCRIPT

# Three dimensional lightweight lattice structures with large positive, zero and negative thermal expansion

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