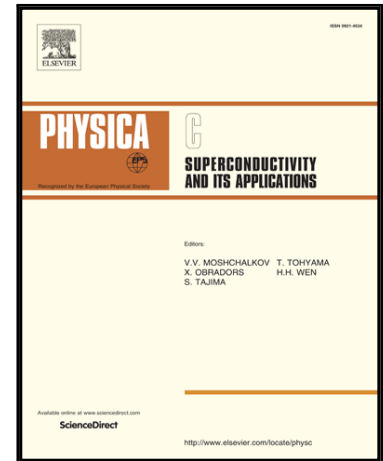


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Electron-phonon interaction in the binary superconductor lutetium carbide LuC_2 via first-principles calculations

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Highlights

- Transition metal carbides and superconducting properties.
- Structural properties and band structure of LuC_2 .
- Electron-phonon coupling and dynamical stability of LuC_2 .
- Superconducting properties of the intermetallic compound LuC_2 .
- Superconducting critical temperature of LuC_2 .
- Effect of spin-orbit coupling on superconducting properties of LuC_2 .

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