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Electronic structures, magnetic properties and half-metallicity in the Heusler alloy Hf_2VAI

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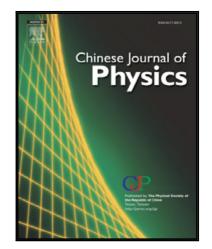
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Highlights

- The evolution of the magnetic, electronic and HM properties for Hf_2Val is considered.
- The effect of uniform strain on the spin polarization is tested.
- The effect of uniform strain on the magnetic property is examined.
- The structure stability of the cohesion energy and cohesive energy is studied.

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