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Electronic structures, magnetic properties and half-metallicity in the Heusler alloy  $\text{Hf}_2\text{VAI}$

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**Highlights**

- The evolution of the magnetic, electronic and HM properties for  $\text{Hf}_2\text{VAl}$  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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