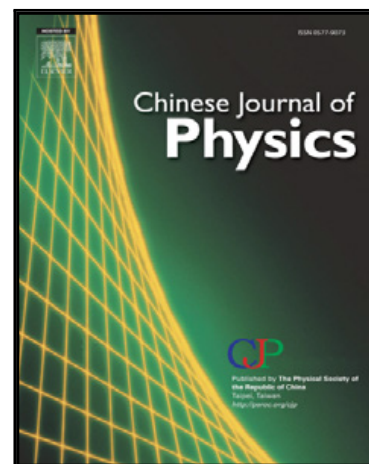


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Electronic properties of MgZnPt_2 at Extremely High Temperatures and Pressures

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Highlights

- Studies suggest that MgZnPt_2 remains metallic in all the three physical conditions.
- The d-orbitals of Zn and Pt contribute the most to the total density of states.
- The d-orbitals diffuse as the pressure and temperature increase, promoting conduction.
- The highest charge density exists between Zn and Pt.
- One application is as a probe for inaccessible regions like volcanoes and the earth's core regions.

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