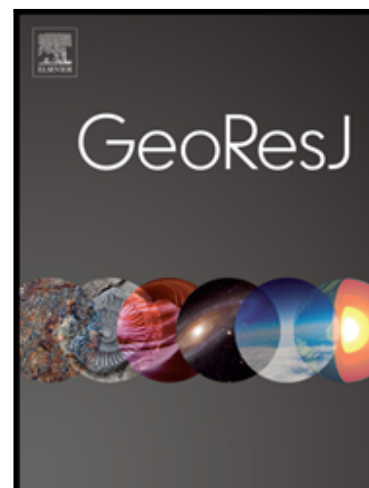


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Presence of charcoal as evidence of paleofires in the Claromecó Basin, Permian of Gondwana, Argentina: Diagenetic and paleoenvironment analysis based on coal petrography studies

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Highlights

- Presence of charcoal in the Tunas Formation, in the Claromecó Basin, Permian of Gondwana
- The coal petrographic analysis allows to determine the depositional environment and the diagenesis level.
- The Tunas Formation was deposited in a wet swampy forest with rises and decreases of the phreatic level.
- The vitrinite reflectance values allow classification of the coals as semiantracitic to low volatile bituminous, with temperatures reached values between 140 °C and 190 °C.
- The data indicate that the Tunas Formation reaches a catagenesis to metagenesis range related to the organic matter diagenesis.
- The presence of charcoal indicates the presence of wildfires.

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