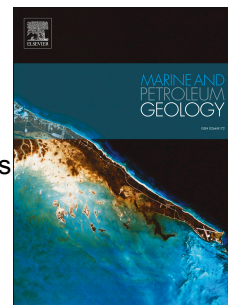


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Geochemical and geological characterization of marine–continental transitional shales from Longtan Formation in Yangtze area, South China

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1 **Geochemical and geological characterization of marine–continental transitional**  
2 **shales from Longtan Formation in Yangtze Area, South China**

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14

15 **HIGHLIGHTS**

- 16 • Highly organic-rich, thermally over-matured and type III kerogen are developed.
- 17 • Mixed organic matters originate from weakly oxidizing to weakly reducing environment.
- 18 • Rich clays will contribute for gas sorption but hinder reservoir fracturing.
- 19 • Various kinds of shale pores within nanometer to micrometer scale are well developed.
- 20 • Longtan shales show good potential of shale gas but great production difficulty.

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