

Accepted Manuscript

Glauconite-bearing sedimentary phosphorites from the Tébessa region (eastern Algeria): Evidence of REE enrichment and geochemical constraints on their origin

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PII: S1464-343X(18)30149-3

DOI: [10.1016/j.jafrearsci.2018.05.018](https://doi.org/10.1016/j.jafrearsci.2018.05.018)

Reference: AES 3221

To appear in: *Journal of African Earth Sciences*

Received Date: 8 February 2018

Accepted Date: 28 May 2018

Please cite this article as: Rabah Kechiched, Rabah Laouar, Olivier Bruguier, Sihem Salmi-Laouar, La'szlo' Kocsis, Delphine Bosch, Atif Foufou, Ouafi Ameer-Zaimeche, Hamza Larit, Glauconite-bearing sedimentary phosphorites from the Tébessa region (eastern Algeria): Evidence of REE enrichment and geochemical constraints on their origin, *Journal of African Earth Sciences* (2018), doi: 10.1016/j.jafrearsci.2018.05.018

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Highlights

1. Evidence of substantial REE enrichments in glauconite grains comparing to coexisting particles ($\sum\text{REE} > 1000 \text{ ppm}$)
2. Glauconite-bearing phosphorites show high Ca and P contents and are also enriched in Fe, Al, K and Si indicating glauconitization of preexisting pellets
3. REE-signature of glauconite grains emphasizes their allochthonous character (remobilization and re-worked grains)
4. The higher REE content of the southern phosphorites recorded in whole rock analyses is linked to the abundance of glauconite grains

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