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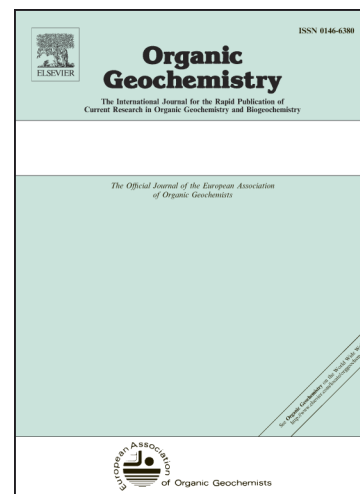
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Highlights

- Impact of extraction method on the distribution of OH-GDGTs investigated.
- A modified Bligh-Dyer method is better for OH-GDGT extraction than ultrasonic extraction.
- OH-2/OHs showed a negative correlation with SST at temperature >25 °C.

Abstract

Hydroxylated glycerol dialkyl glycerol tetraethers (OH-GDGTs) have been recently proposed as novel proxies for sea surface temperature (SST) estimation. However, it is still unclear whether these proxies are applicable to the tropical South China Sea (SCS). We assessed the possible impact of extraction methods on the OH-GDGT distribution in marine sediments. A batch of marine sediments from the

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