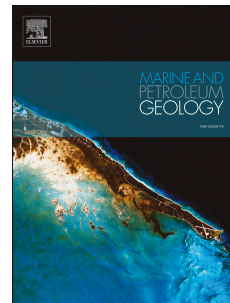


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# Origin of Petroleum Accumulation in the Chaheji-gaojiapu Structural Belt of the Baxian Sag, Bohai Bay Basin, China: Insights from Biomarker and Geological Analyses

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## ABSTRACT

The origin of petroleum accumulations in the Chaheji-gaojiapu structural belt of the Baxian Sag, Bohai Bay Basin was evaluated based on the results of Rock-Eval pyrolysis on 135 samples and a biomarker analysis on 26 source rock samples and 33 oil samples. The four possible source rock intervals have different biomarker assemblages and were deposited in different environments. For example, pristane/phytane, C<sub>27</sub>-diasterane/C<sub>27</sub>-sterane and C<sub>19</sub>/C<sub>23</sub>-tricyclic terpane ratios show an increasing trend, but (C<sub>28</sub>+C<sub>29</sub>)-tricyclic terpane/[(C<sub>28</sub>+C<sub>29</sub>)-tricyclic terpane+Ts] and steranes/hopanes parameters display a decreasing trend among the lower part of

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