

Review Form 1.7

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_100230
Title of the Manuscript:	Petroleum Geochemistry of the Central and Eastern Onshore Niger Delta Basin: Oil-oil correlation using Biomarkers and Multi-variate statistic
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment		Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>	<p>How was the depositional environment of the AG and AS oils determined, and what were the key indicators used in the analysis?</p> <p>Can you elaborate on the biomarker parameters used to assess the thermal maturity and biodegradation state of the oils? How reliable are these parameters in distinguishing between different levels of maturity and degradation?</p> <p>What specific lithological characteristics were observed in the AG and AS oils? How do these characteristics contribute to the understanding of the oils' sources and depositional environments?</p> <p>Were any potential migration pathways identified for the oils? If so, how do these pathways relate to the differences observed in the oils' compositions?</p> <p>Could you provide more details on the ratios used, such as Pr/Ph, Pr/nC17, Ph/nC18, and DBT/Phen? How do these ratios help in distinguishing between different types of organic matter and sources?</p> <p>How were the samples selected for this study? Were there any particular criteria or considerations taken into account to ensure representative samples from the Eastern and Central Niger Delta Basin?</p> <p>Were there any other analytical techniques or methods employed in addition to PCA to assess the relationship between the AG and AS oils? If so, what were the main findings of those additional analyses?</p> <p>How does the conclusion that the Eastern and Central Niger Delta Basin onshore oils were predominantly generated from similar sources align with previous research or geological models in the region? Are there any implications or potential applications of this finding in terms of exploration or production strategies?</p> <p>Considering the slight geochemical variabilities observed in the studied oils, what potential factors or processes could explain these differences in in-reservoir alteration, depositional environment, migration, and OM types?</p> <p>What are the limitations of this study, and are there any aspects that could be further investigated or expanded upon in future research to enhance our understanding of the oils in the Eastern and Central Niger Delta Basin?</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>		
<p>Optional/General comments</p>	<p>Nil</p>		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	

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Reviewer Details:

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