

Review Form 1.7

Journal Name:	Asian Journal of Geological Research
Manuscript Number:	Ms_AJGER_113848
Title of the Manuscript:	NAVIGATING AIR QUALITY ASSESSMENT: A HOLISTIC REVIEW OF AIR QUALITY INDEX METRICS AND ASSESSMENT APPROACHES
Type of the Article	Review Article

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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> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1.) Yes, the manuscript is important for the scientific community as it provides a comprehensive review of air quality assessment, the significance of the Air Quality Index (AQI), and the implications of poor air quality on public health, the environment, and society. It discusses the importance of understanding air quality metrics, the role of AQI in policy-making, and the need for improved monitoring methods and technology. The manuscript also emphasizes the need for interdisciplinary collaboration, public awareness, and technological advancements to address air pollution effectively 2.) The title of the article, "NAVIGATING AIR QUALITY ASSESSMENT: A HOLISTIC REVIEW OF AIR QUALITY INDEX METRICS AND ASSESSMENT APPROACHES," is suitable as it accurately reflects the content of the manuscript. The title indicates that the article provides a comprehensive review of air quality assessment, focusing on the Air Quality Index (AQI) metrics and assessment approaches. It conveys the main theme of the manuscript, which is to explore the implications, difficulties, and future directions of air quality assessment. 3.) Yes, the abstract of the article is comprehensive as it provides a detailed overview of the content covered in the manuscript. It highlights the importance of air quality assessment, particularly focusing on the role of metrics like the Air Quality Index (AQI) in preserving public health. The abstract discusses the implications of high AQI values caused by pollutants, the wider consequences of poor air quality on health, ecosystems, climate change, and businesses, as well as the difficulties in creating a globally adjustable AQI. It also suggests remedies for addressing air pollution and emphasizes the need for public awareness, interdisciplinary teamwork, and technology developments. 4.) The manuscript contains several subsections that are organized logically and provide a structured approach to discussing air quality assessment. The subsections cover topics such as the overview and importance of air quality monitoring, communication of air pollution levels, assessment methodologies, monitoring technologies, and integrative analysis of Air Quality Index metrics. This structured approach helps in presenting the information in a clear and organized manner, allowing readers to follow the discussion effectively. The subsections and structure of the manuscript are appropriate as they guide the reader through different aspects of air quality assessment, from the importance of AQI to the use of sensor networks and computational models. The organization of the content into subsections helps in breaking down complex information into manageable sections, making it easier for readers to understand the key points and implications of air quality assessment. 5.) Based on the content provided in the document, the manuscript appears to be scientifically correct. It discusses important concepts related to air quality assessment, the significance of the Air Quality Index (AQI), the impact of pollutants on public health and the environment, as well as the role of technology and interdisciplinary collaboration in addressing air pollution. The manuscript references reputable sources and scientific studies to support its arguments and recommendations. It covers a wide range of topics related to air quality assessment, including the use of computational models, machine learning algorithms, sensor technology, and normalization methods. The manuscript also emphasizes the importance of public awareness, policy-making, and international cooperation in addressing air pollution. 6.) The references provided in the document cover a wide range of studies and sources related to air quality assessment, environmental health, and technological advancements. While the references are diverse and relevant to the topic, it is important to note that the document does not include specific reference citations within the text, making it difficult to assess the direct connection between the content and the references. In terms of recency, the references span from 2017 to 2023, indicating a relatively recent selection of sources. However, to further enhance the credibility and relevance of the manuscript, it may be 	

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	beneficial to include more recent references, especially from the last two years, to ensure that the information presented is up-to-date and reflects the latest advancements in air quality assessment and technology. If additional references are needed, the reviewer may consider including recent studies on topics such as the impact of air pollution on public health, advancements in sensor technology for air quality monitoring, the role of artificial intelligence in environmental assessments, and global initiatives for air quality improvement. Including a diverse range of recent references can strengthen the manuscript's credibility and provide readers with the most current information available in the field of air quality assessment.	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communications. The manuscript uses technical language and terminology appropriate for the subject matter of air quality assessment and environmental health. The writing style is formal and academic, which is typical for scholarly articles.</p> <p>However, there are a few areas where the language could be improved for better clarity and readability. Some sentences are long and complex, which may make it challenging for readers to follow the content smoothly. Breaking down complex sentences into shorter, more concise ones can enhance readability and understanding.</p> <p>Additionally, ensuring consistent use of terminology and avoiding repetition of phrases or concepts can further improve the overall quality of the language in the article.</p>	
<p>Optional/General comments</p>	<p>Overall, the article provides a comprehensive review of air quality assessment metrics and approaches, highlighting the importance of the Air Quality Index (AQI) in protecting public health and the environment. The document covers a wide range of topics, including the implications of poor air quality, the role of different pollutants, the challenges in creating a globally adjustable AQI, and the need for collaborative efforts to address air pollution.</p> <p>The manuscript is well-structured with clear subsections that guide the reader through the discussion. The inclusion of references from reputable sources adds credibility to the content, although incorporating more recent references could further enhance the relevance and timeliness of the information presented.</p> <p>While the language and English quality are generally suitable for scholarly communications, some areas could be improved for better clarity and readability. Simplifying complex sentences and ensuring consistency in terminology usage can help enhance the overall quality of the manuscript.</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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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