



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Journal of Geographical Research</a>
Manuscript Number:	<b>Ms_AJGR_48510</b>
Title of the Manuscript:	<b>Chemical characterization of aeolian dust deposition in southern and western Iran</b>
Type of the Article	<b>Original Research Article</b>

**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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<b>Compulsory</b> REVISION comments	<p>The manuscript achieves the purpose defined in the abstract, it is well structured, it is scientifically robust, it is technically sound and it is written with care.</p> <p>I'm convinced that the Research is not innovative, but the study allows to increase the knowledge in the studied field for provinces of Iran.</p> <p>Therefore, I believe that the manuscript <b>can be accepted for publication after the following MINOR REVISIONS:</b></p> <p><b>Figure 3.</b> It is not indicated in the manuscript. The authors should check this point.</p> <p><b>Table 3.</b> Replace "HNO3" with "HNO<sub>3</sub>". The authors must check this error throughout the entire manuscript.</p> <p><b>Table 3.</b> Replace "HCL" with "HCl". The authors must check this error throughout the entire manuscript.</p> <p><b>Line 111.</b> Replace "29°C and 39°C" with "29 °C and 39 °C". The authors must check this error throughout the entire manuscript.</p> <p><b>Line 150.</b> Replace "ml" with "mL". The authors must check this error throughout the entire manuscript.</p> <p><b>Caption of Figure 6.</b> Replace "Windrose" with "Wind rose".</p> <p><b>Line 229.</b> The authors write "Figure 6b". Why do the authors call it Figure 6b? Why don't they call it Figure 7?</p> <p>Many authors used the enrichment factor (EF) technique in order to identify the role of potential sources of natural and/or anthropogenic components. See the following papers:</p> <p>S. Guerzoni , E. Molinaroli and R. Chester, "Saharan dust inputs to the western Mediterranean Sea: Depositional patterns, geochemistry and sedimentological implications", <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i>, vol. <b>44</b> (3-4), pp. 631-654, 1997</p> <p>M.R Perrone, A. Turnone, A. Buccolieri and G. Buccolieri, "Particulate matter characterization at a coastal site in south-eastern Italy", <i>Journal of Environmental Monitoring</i>, vol. <b>8</b> (1), pp. 183-190, 2006.</p> <p>Could the authors calculate this and include it in the discussion?</p> <p>The authors should indicate which ICP-MS tool they used. This information must be reported in the manuscript.</p>	<p>I am grateful for your consideration of this manuscript, and I also very much appreciate your suggestions, and your careful reading which have been very helpful in improving this manuscript.</p> <p><b>Figure 3.</b> It is not indicated in the manuscript. The authors should check this point.</p> <p>Figure 3. is indicated in Page 4 line 94 and 97.</p> <p><b>Table 3.</b> Replace "HNO3" with "HNO<sub>3</sub>". The authors must check this error throughout the entire manuscript.</p> <p>Table 3. HNO3 s are replaced. Entire manuscript has been checked.</p> <p><b>Table 3.</b> Replace "HCL" with "HCl". The authors must check this error throughout the entire manuscript.</p> <p>Table 3. HCl s are replaced. Entire manuscript has been checked.</p> <p><b>Line 111.</b> Replace "29°C and 39°C" with "29 °C and 39 °C". The authors must check this error throughout the entire manuscript.</p> <p>Line 111. Temperature sign has been fixed throughout the entire manuscript.</p> <p><b>Line 150.</b> Replace "ml" with "mL". The authors must check this error throughout the entire manuscript.</p> <p>Line 150. Unit and dimension "ml" has been replaced with "mL"</p> <p><b>Caption of Figure 6.</b> Replace "Windrose" with "Wind rose".</p> <p>Figure caption. Wind rose has rewritten</p> <p><b>Line 229.</b> The authors write "Figure 6b". Why do the authors call it Figure 6b? Why don't they call it Figure 7?</p> <p>Line 229 Figure 6a replaced with Figure 7. it was my serious mistake</p> <p><b>Many authors used the enrichment factor (EF) technique in order to identify the role of potential sources of natural and/or anthropogenic components. See the following papers:</b></p> <p><b>It seems simple but really complicated</b></p> <p><b>Could the authors calculate this and include it in the discussion?</b></p> <p>Currently a wide variety of methods used to evaluate contamination of water soil and sediments... to access the presence and intensity of anthropogenic contaminant deposition on surface. Therefore with respect to your suggestion for apply EF technique, easy and difficult parts of EF technique have been elaborated.</p> <p><math display="block">EF = [C_x / x C_{reference}] / [B_x / B_{ref}] \text{ Background}</math><p>C<sub>x</sub> = Examined element in the examined environment; C<sub>ref</sub> = Examined element in the reference environment; B<sub>x</sub> = Reference element in the examined environment; B<sub>ref</sub> = Reference element in the reference environment;</p></p>



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		<table><tr><th rowspan="2">Para.</th><th colspan="4">Subject of interest</th></tr><tr><th>Dust</th><th>Sediment</th><th>Soil</th><th>Water</th></tr><tr><td>C<sub>x</sub></td><td>Easy</td><td>Easy</td><td>Easy</td><td>Easy</td></tr><tr><td>C<sub>ref</sub></td><td>Easy</td><td>Easy</td><td>Easy</td><td>Easy</td></tr><tr><td>B<sub>x</sub></td><td>Difficult*</td><td>Easy</td><td>Easy</td><td>Easy</td></tr><tr><td>B<sub>ref</sub></td><td>Difficult*</td><td>Easy</td><td>Easy</td><td>Easy</td></tr></table> <p><i>*Typical elements used in many studies are Al, Fe, and Mn</i></p> <p>Besides, it would be easier to find background data of air, waterbody, soil, and sediment rather than dust which usually run down and up from travel route and origin.</p> <p>To sum up, If you don't mind I would like to keep your comment for the future work.</p> <p><b>The authors should indicate which ICP-MS tool they used. This information must be reported in the manuscript</b></p> <p>Line 162 . The machine is (ICP-MS: X series II).</p>	Para.	Subject of interest				Dust	Sediment	Soil	Water	C <sub>x</sub>	Easy	Easy	Easy	Easy	C <sub>ref</sub>	Easy	Easy	Easy	Easy	B <sub>x</sub>	Difficult*	Easy	Easy	Easy	B <sub>ref</sub>	Difficult*	Easy	Easy	Easy
Para.	Subject of interest																														
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<b>Minor</b> REVISION comments																															
<b>Optional/General</b> comments																															

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	