



SDI Review Form 1.6

Journal Name:	Asian Journal of Geographical Research
Manuscript Number:	Ms_AJGR_48510
Title of the Manuscript:	Chemical characterization of aeolian dust deposition in southern and western Iran
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:

(<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)
Compulsory REVISION comments	<p>The work focuses on the dust deposition and concentration and correlation between the elements. Eventually these would definitely influence the chemical composition of the soil and also the weather. But insight in form of influence on the flora and fauna of the region would have further validated the work.</p>	<p>I appreciate this suggestion with regard to the influential of the chemical gradient of Aeolian dust.</p> <p>This work focuses on the characterization of Aeolian dust deposition. Multiple correlations between chemical gradient are the main issues.</p> <p>As well as you will confirm validity is defined as the degree of agreement between the claimed measurement and the real context. In this study there are three categories of validity done, [1] content validity, [2] criterion validity, and [3] construct validity. Undoubtedly, several relevant messages can emerge as the future works when the settled dust and / or the composition gradient had an influence on the flora and fauna.</p> <p>[1] Content validity: This includes standard sampling method uniformly and an adequate sample from each gauge from 2 meters above ground. Spatiotemporal samples were large enough and are taken for appropriate preparation.</p> <p>[2] Criterion validity: Lab preparation, digestion and ICP-MS were done based on the standard. As well as you know the predetermined standard had been tested by prior scientific studies and had been held to be valid.</p> <p>[3] Construct validity: is the degree to which the test actually measures the correlation between elements in the Aeolian dust based on Atmospheric Metal Regulation. Although many techniques such as Enrichment Factor (EF), Metal Pollution Index (MPI), geo accumulation Index (Igeo), and more are introduced to evaluate contamination rate none of them can be applied without appropriate reference and background. The multiple correlation techniques which is not related to grain size or specific reference has been selected. So the major concern with multiple correlation techniques is altered concentration of elements.</p> <p>The procedure I am referring to multiple correlations is called cross-validation. Basically I work with two different groups, a validation group based on (AMR) and a cross validation group. Ultimately, I believe that It is enough to show that the set of predictors held up, and therefore are valid.</p>
Minor REVISION comments		
Optional/General comments		

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)



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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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