<u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

Materials

	n/a
Line 16-19 on page 4	
Yes (indicate where provided: section/paragraph)	n/a
(manage manage provides a control, per agree)	n/a
	.,,
	n/a
Yes (indicate where provided: section/paragraph)	n/a
	n/a
	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
	n/a
	n/a
Yes (indicate where provided: section/paragraph)	n/a
Line 32-34 on page 9	
Line 32-34 on page 9	
Line 13 on page 15 Table S1	
	Yes (indicate where provided: section/paragraph) Line 32-34 on page 9

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Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		n/
number OR cite DOI in manuscript.		a
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		n/
by-step protocols are available.		a
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been		n/
done, or if they were not carried out.		a
Sample size determination		n
Randomisation		n/
-n n		a
Blinding		n
Inclusion/exclusion criteria	Line 34 on page 3 to Line 9 on page 4	а
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was		n/
Define whether data describe technical or biological		n/
replicates		a
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	22.24	
authority granting ethics approval (IRB or equivalent	Line 32-34 on page 9	
committee(s), provide reference number for approval.		
Studies involving experimental animals: State details		n/
of authority granting ethics approval (IRB or		а
equivalent committee(s), provide reference number		
for approval.		/
Studies involving specimen and field samples: State if relevant permits obtained, provide details of		n/
authority approving study; if none were required,		а
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern,	res (mulcate where provided, section/paragraph)	n/
state the authority granting approval and reference		a
state the authority granting approval and reference		d

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Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is		n/
excluded, and whether the criteria for exclusion were		а
determined and specified in advance.		

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of		
tests.	Line 25 on page 4 to Line 2 on page 5	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	Line 20-22 on page 9	
If data are publicly available, provide accession		n/
number in repository or DOI or URL.		а
If publicly available data are reused, provide		n/
accession number in repository or DOI or URL, where possible.		а

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		n/
for replicating the main findings of the study:		а
State whether the code or software is available.		n/
		а
If code is publicly available, provide accession		n/
number in repository, or DOI or URL.		а

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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