This report summarizes the overall quality of your edited manuscript. For each section, we provide specific comments on the quality and these are substantiated by examples (where available).

### Structural Review

**Overall Manuscript**
- Please note that the written manuscript is not entirely in line with the intended audience, and we have edited and/or provided suggestions for the pertinent parts.
  - *Comment/Example:* The journal recommends the use of separate results and discussion section, and we have made appropriate changes to reflect this.
- The structure of the original manuscript is perfect, and it does not need revision.

**Title & Abstract**
- The title was not entirely informative and concise. We have made necessary revisions to the title.
  - *Comment/Example:* We have made the title concise; please check whether the changes are appropriate.
- In addition, the title clearly conveys the aim of the study.
- Although the abstract had a logical structure, some changes were made for clarity.
  - *Comment/Example:* We have removed some information that is normally not given in an abstract, such as the detailed information about the methods used.
- The abstract includes the purpose, methods and materials, results, and conclusions appropriately.

**Introduction**
- Statements clarifying the purpose and approach of the study were not clearly mentioned in the Introduction. We have edited it to clarify the "what and why" statement.
  - *Comment/Example:* We have modified the sentence clarifying the purpose as the original sentence was not clear.
- The Introduction clearly states the relevance of the findings.
- In the Introduction, the scope of the investigation is indicated.
- The Introduction does not state the limits of the problem and investigation. Please include the statement in the Introduction.
  - *Comment/Example:* Please provide a sentence that clearly states the limitations of your study.
Assignment: ABCDE

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Materials and Methods

- In this section, appropriate description of the methodology is provided, which can be reproduced by another investigator.
- The measurement procedures are not described as required. Please refer to our comments. *Comment/Example: Please explain how the strain measurements were done.*
- Tests of statistical significance are appropriately conducted. The samples are truly randomized, and the data are statistically significant.
- Statements describing measurement parameters such as sensitivity and accuracy are clear and accurate.
- The calculations presented in the study appear to be appropriate.

Results

Comment/Example: Originally there was only a single Results and Discussion section. We have split it into two sections as per the journal guidelines.

- Some of the sentences from the Results section have been moved to the Discussion section.
  *Comment/Example: We have created a new Results sections and moved all relevant statements to that section.*
- All the reported findings are relevant to the thesis.
- The key results presented in figures and tables appear appropriate.

Discussion

- The discussion regarding whether the key results support the hypotheses is appropriate and convincing.
- The discussion is of appropriate length.
- The conclusions are clear and in line with the stated objective.
- Some generalizations cannot be justified on the basis of the findings of this investigation and pertinent literature. Please check the Editor Message file.
  *Comment/Example: One of the conclusions, whether you have achieved independent control over the 3 parameters discussed, is not supported adequately. Please see Remark 15 for more details.*
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**Peripheral Text Review**

**Figures and/or Tables**

- The figures and/or tables support the main text; however, there are minor discrepancies.  
  *Comment/Example: In Fig. 2, it is better to mark the elastic yield stress on the three curves. Also it will be helpful to mark the 'stress plateau' discussed in the text.*
- They have also been cited in the main text at appropriate places.
- The legends are somewhat complete and accurate.  
  *Comment/Example: In Fig.3, we did not see any 'white' atoms mentioned in the caption. There are instead slightly off-white or faint pink atoms in the center. Please check whether the figure or caption should be revised.*
- In this manuscript, every figure and/or table can stand alone without reference to the main text.

**Bibliography**

- All statements of fact are appropriately referenced.
- In this manuscript, most literature cited is pertinent to the investigation.  
  *Comment/Example: References 6, 8, and 11 are not recent. Please provide more recent references if possible.*
- All references cited follow a consistent format.
Advance Report

Content

- There are no gaps in content in this manuscript.

Terminology

- Most terms used in the manuscript are valid in the field; some have been coined.
  
  Comment/Example: In the literature, 'strain hardening' is more common than 'strain strengthening'.

- The scientific terminology and representation in the paper are appropriate and consistent.

- The scientific nomenclature (gene names, protein names) is in order throughout the text.

Style

- In some instances, the capitalization/italicization/number style is not as per the conventions of the subject area.
  
  Comment/Example: All variables used in the paper need to be in italics as per the journal guidelines. We have edited them accordingly.

Journal Format

- The manuscript does not follow some journal guidelines.
  
  Comment/Example: Some guidelines, such as applying template, separate Results and Discussion sections, and italic variables, were not followed. We have edited to correct this.

- Where applicable, a remark has been added with next step(s) for the author.
  
  Comment/Example: Please see the Formatting section of the remarks file.

- The structure and/or length of the abstract conforms to the journal guidelines.

- The style guide stipulated by the guidelines was followed.
  
  Comment/Example: The ASME style guide was followed.

- The template specified in the guidelines has been applied to the manuscript.