

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_129548
Title of the Manuscript:	A review of research on porous structure negative Poisson's ratio metamaterials
Type of the Article	Original Research Article

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The manuscript does not contain any new fundamental science, however the manuscript covers various aspect of negative Poisson's ratio metamaterials. The paper provide a comprehensive review and the application of negative Poisson's ratio metamaterials.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, (I suggest to remove word "research" from the title)	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes the abstract of the article comprehensive Avoid repetition of words such as "This paper commences" and "finally"	
Is the manuscript scientifically, correct? Please write here.	Yes, As a review manuscript scientifically correct.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Required some recent references and related literature 1. Stretchable and negative-Poisson-ratio porous metamaterials "Nature Communications (2024) 15:392" 2. Sequential metamaterials with alternating Poisson's ratios "NATURE COMMUNICATIONS https://doi.org/10.1038/s41467-022-28696-9 " 3. Metamaterials with Negative Poisson's Ratio: A Review of Mechanical Properties and Deformation Mechanisms "DOI: 10.1007/978-3-319-17118-0_7" 4. Mechanically Programmable Composite Metamaterials with Switchable Positive/Negative Poisson's Ratio "https://doi.org/10.1002/adfm.202314123"	
Is the language/English quality of the article suitable for scholarly communications?	Yes, English quality of the article suitable for scholarly communications.	
<u>Optional/General</u> comments	<ol style="list-style-type: none"> This sentence looks incomplete "This unique mechanical properties make the negative Poisson's ratio metamaterials in the withstanding of the external force to be able to....." The introduction lacks the objectives of the present work. Clearly state the motivation (purpose) of this study and describe section wise structure of the paper at the end of introduction. Figure 2 required reference. Also the labeling in figure should be in English. In Figure 5 and 6, the labeling should be in English. "In the 1980s foreign scholars have proposed negative Poisson's ratio concave hexagonal honeycomb structure (shown in Figure 4)" What do you mean by foreign scholars? Provide references. A section "conclusion" should be added at the end. All the figures should be drafted by authors itself. (Not use screenshots). 	

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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