

[Review Form 3](#)

Book Name:	Science and Technology: Developments and Applications
Manuscript Number:	Ms_BPR_4079
Title of the Manuscript:	Moderately Transparent Chitosan-PVA Blended Membrane for Strong Mechanical Stiffness and as a Robust Bio-Material Energy Harvester Through Contact-Separation Mode TENG
Type of the Article	Book chapter

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 focuses on biodegradable materials, a significant topic in the field of sustainable energy harvesting. It's innovative and in line with the scientific community's interest in environmentally friendly technologies that chitosan and PVA are combined to generate a mechanically robust and effective triboelectric nanogenerator (TENG). The study provides insightful information about device performance, fabrication techniques and material attributes that may stimulate more research into green energy solutions.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title is appropriate since it clearly communicates the chapter's primary idea.	
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.	The abstract provides a clear explanation of the work, but it may benefit from more precise performance measures (for example, accurate Voc and Isc values) to properly highlight the advances made. Including a brief mention of the practical uses would make it more thorough.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically appropriate and provides well-structured experimental details. However, the following points need clarification or elaboration: 1) Justification for the chosen concentrations of ChS and PVA. 2) A discussion on the long-term stability of the Chitosan-PVA TENG under varying environmental conditions.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	Replace old references with recent 5 years references. Some suggested references given below: 1. More VS, Ghorude TN, Patil MP, Sakhare BK, Tandel RP, Padhye GG (2023) Comprehensive Analysis of γ - Radiation Impact on PVA-PTh Composite Films for Enhanced Battery Functionality. Indian Journal of Science and Technology 16(46): 4349-4357. https://doi.org/10.17485/IJST/v16i46.2256	
Is the language/English quality of the article suitable for scholarly communications?	Some grammatical errors and awkward phrases need revision. For example, replace "loan pair" with "lone pair" throughout the text. A thorough proofreading is recommended.	
Optional/General comments	1. Include quantitative error analysis for Voc and Isc measurements to validate reliability. 2. Simplify complex terminologies like "biopolymer blend membrane matrix" for accessibility to a broader audience. 3. The SEM section could benefit from quantifying surface roughness to correlate with triboelectric performance.	

PART 2:

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

Reviewer Details:

Name:	Vinod Shankar More
Department, University & Country	G.E.S's N. B. Mehta Science College, India