

Review Form 3

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_128100
Title of the Manuscript:	Synthesis of Nickel-Doped TiO₂ Nanoparticles For Enhanced Supercapacotor electrode Performance
Type of the Article	

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.	This manuscript is of considerable importance to the scientific community as it presents a comprehensive study on the synthesis and characterization of nickel-doped TiO ₂ nanoparticles for advanced energy storage applications. The work bridges a critical gap in the development of high-performance materials for supercapacitors by demonstrating enhanced capacitive behavior due to nickel doping. The detailed structural and electrochemical analyses provide valuable insights into the role of doping in tailoring material properties for energy storage devices. This study not only advances the fundamental understanding of doped TiO ₂ systems but also underscores their potential for practical implementation in next-generation supercapacitor technologies.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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 effectively summarizes the key aspects of the study, including the synthesis, characterization, and application of nickel-doped TiO ₂ nanoparticles for supercapacitors. It highlights the methods used (X-ray diffraction, SEM, cyclic voltammetry, and EIS), the fabrication process, and the observed enhancement in electrochemical performance. However, a few refinements could enhance its comprehensiveness: 1. Adding specific values for parameters such as capacitance, energy density, or improvement percentages would strengthen the abstract by providing a clearer sense of the performance enhancement achieved. 2. Explicitly state what makes this work unique compared to existing studies on doped TiO ₂ or similar systems. 3. The description of the electrode preparation process (drop-casting and drying) could be condensed to allow room for more impactful findings or implications. 4. Briefly mention how this advancement could influence future energy storage research or applications.	
Is the manuscript scientifically, correct? Please write here.	Yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes. sufficient	

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Is the language/English quality of the article suitable for scholarly communications?	ok	
Optional/General comments	Nil	

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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