



SDI Review Form 1.6

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_52781
Title of the Manuscript:	DETERMINATION OF THE ENERGY BAND GAP OF SILICON USING QUANTUM SIMULATION FOR PHOTOVOLTAIC ENERGY APPLICATIONS
Type of the Article	Original research article.

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	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)
Compulsory REVISION comments	-----	-----
Minor REVISION comments	Figures 1,2,3 are missed in the text of the article.	The authors must put figures 1,2, 3.
Optional/General comments	-----	-----

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>	
Are there competing interest issues in this manuscript?	The authors investigated the band Structure and the Density of State (DOS) of silicon using First-Principles Pseudo-potential method based on the Density Functional Theory (DFT) and the Plane Wave Method as implemented in the Quantum Espresso. Results show that the electronic structure property of silicon for possible photovoltaic applications is achieved.	

Reviewer Details:

Name:	Adel H. Phillips
Department, University & Country	Ain-Shams University, Egypt