



SDI Review Form 1.6

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_45389
Title of the Manuscript:	THERMOELECTRIC PROPERTIES OF Zn-DOPED CdO
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

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	- Author should mention the importance of thermoelectric material in the 'Introduction' section for the base level reader. - Author should include the advantages of CdO as TE material in 'Introduction' section. - Variation of Doping concentration (Zn) can largely modify the properties (figure of merit) of the CdO material. Author should incorporate the data in the graph by varying the zinc percentage. - Doping can vary the mobility and carrier concentration. Authors should mention the same by incorporating graph in the manuscript. - Doping of Zn can also suppress the thermal conductivity of CdO through enhanced phonon scattering. This should be taken into account before concluding anything.	Figure 8 illustrates the concentration (doping levels) variation with power factor (PF) at various temperatures. From this figure, we can deduce about the figure of merit which has a direct relation with the power factor. As doping concentration increases, the PF also increases until at a certain percentage of doping where saturation sets in. At 6% doping, saturation starts setting in at about 550K hence the power factor drastically drops. -Variation of mobility and carrier concentration is generally discussed as we analysed the doping concentration but because of our scope we did not have graphs on the same.
Minor REVISION comments		
Optional/General comments	'Introduction' can be re-written.	Introduction re-written.

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?	(If yes, Kindly please write down the ethical issues here in details)	