



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_13963
Title of the Manuscript:	THERMOELECTRIC PROPERTIES OF LEAD TELLURIDE FILLED IN SILICONE
Type of the 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>)



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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	I suggest the authors to estimate the figure of merit of the samples they prepared. Please insert this estimate in the conclusions and in the abstract. Please explain how Seebeck coefficient had been found experimentally or provide references.	We estimated the figure of merit of the composite material and inserted the result into the Conclusion and Abstract sections. How the Seebeck coefficient was obtained is added into the Experimental section.
Minor REVISION comments	Line 14: It is told that the measurements are showing a high Seebeck coefficient. It is necessary to tell in a section of the text, the best is the introduction, what is a high Seebeck coefficient, comparing to other materials. Line 37: The figure of merit is $ZT = S^2 \sigma T / k$, please define it and revise the equation. Line 41: It is the electric conductivity increased by fillers, not the thermal. The figure of merit increases with electric conductivity. If it is the thermal conductivity increasing, the figure of merit decreases. Line 45: " way of" instead of "wayof" Line 69: please provide a reference about electrospinning of lead telluride mixed with silicone. If it is a new application, tell this fact. Line 84: Please provide the manufacturer of Lead Telluride. What is the size of the grains of the powder? Line 84: Please provide the manufacturer of Silicone. Line 129: Revise the text, remove "Lead Telluride doped with silicone" and write "Lead telluride filled in silicone".	Line 14: Comparison of the Seebeck coefficient is provided. For most materials. Line 37: We correct this and define the parameters. Line 41: We agree with the reviewer's opinion that the electrical conductivity increases with the addition of the more conductive filler. Line 45: Correction is made to address this. Line 69: This is a new application. We sated this in the revised form. Line 84: The provider of PbTe is given. The size is also provided. We did the corrections all over the paper by the removal of the word "dopping".



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<u>Optional/General</u> comments	<p>This is an interesting manuscript about a material suitable for several applications. In the case that this is a new material, I suggest the authors to remark this fact.</p> <p>The manuscript is describing some experimental results. In my opinion it is better to explain shortly the experimental set-up and how Seebeck coefficient had been determined before publication.</p>	<p>The material is new, we indicated in the paper.</p> <p>More details about the experimental set-up and measurement of the Seebeck coefficient are given in the revised version.</p>
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