



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)
<u>Compulsory</u> 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.	
<u>Minor</u> 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".	



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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>	
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Reviewer Details:

Name:	Anonymous
Department, University & Country	Italy