



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_9604
Title of the Manuscript:	Distributions of electron density and electron temperature in magnetized DC discharge
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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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)
<u>Compulsory</u> REVISION comments	<p>In this article entitled "<i>Distributions of electron density and electron temperature in magnetized DC discharge</i>" the authors investigated the radial and axial distributions of electron densities and temperatures in presence and absence of permanent magnetic field for glow arc discharge plasma. This study has significance in the respective fields and potential to be published. I would like to recommend this article to publish in "Physical Science International Journal" after addressing the suggested modifications as given below</p> <ol style="list-style-type: none"> 1. The manuscript is needed to be improved grammatically. 2. The Experimental section is incomplete. The arc discharge setup in reference 11 does not represent the clear picture of the investigations carried out in this study. So, it would be better to provide the schematic diagram of experimental setup in this article. It will facilitate readers understanding. 3. The information regarding to physical conditions (voltage, current, ambient conditions, electrodes nature and dimensions, distance between electrodes etc.) used to generate glow discharge and applied magnetic field (i.e. dimensions and strength of 	<ol style="list-style-type: none"> 1- Corrected 2- Referring ref.11 all the experimental steps are shown obviously 3- Referring ref.11 all these conditions are shown obviously 4- Add and Corrected 5- Corrected 6- Corrected



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	<p>magnetic field) have not been included in experimental setup section. It is suggested to incorporate the physical conditions used to generate discharge plasma.</p> <p>4. No variation in the electron temperature along radial axes in presence and absence of magnetic field need to be explained in more details.</p> <p>5. The discussion related to the discharge currents with respect to pressures with and without magnetic field is not sufficient i.e. the figures 1 to 4 need to be discussed in more details separately.</p> <p>6. In subsection 3-1 on page 3 under the sub-point 1. The figure numbers are missing. Need to correct.</p>	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		