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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.

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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	<p>This paper reports the results on “Distributions of electron density and electron temperature in magnetized DC discharge”. It is noticed that the work is of interest and should be considered for publication after extensive revisions and improvements suggested below.</p> <p>(1) The INTRODUCTION section does not contain any literature on double probes that were used as a main diagnostic in this research. Why authors use double probes rather triple probes or single probe or optical emission spectroscopy. They should justify this in introduction section. For reference please read the following papers:</p> <ol style="list-style-type: none"> 1. N. U. Rehman, M. A. Khan, M. Y. Naz, M. Shafiq, M. Zakaullah, <u>Characterization of 13.56 MHz RF Ne–N₂ mixture plasma using intrusive and non-intrusive diagnostic techniques</u>, <i>Physica Scripta</i>, Vol. 88 (4), 2013. 2. M. Y. Naz, A. Ghaffar, N. U. Rehman, M. Azam, S. Shukrullah, A. Qayyum, M. Zakaullah, Symmetric and asymmetric double Langmuir probes characterization of radio frequency inductively coupled nitrogen plasma, <i>Progress In Electromagnetics Research</i>, Vol. 115, 207-221, 2011. 3. M. Y. Naz, A. Ghaffar, N. U. Rehman, S. 	<ol style="list-style-type: none"> 1- I give a hint about the double probe by a references because the theory of the double probe in plasma physics science from basics 2- I corrected the mention in the introduction 3- Corrected 4- Corrected 5- corrected



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	<p>Naseer, M. Zakaullah, Double and triple Langmuir probes measurements in inductively coupled nitrogen plasma, <i>Progress In Electromagnetics Research</i>, Vol. 114, 113-128, 2011.</p> <p>4. M. Y. Naz, A. Ghaffar, N. U. Rehman, S. A. Shahid, S. Shukrullah, Characterization of an In-house Built 50 Hz Single Dielectric Barrier Discharge System Having Asymmetric Electrodes, <i>International Journal of Engineering & Technology IJET-IJENS</i> Vol:12(05), 53-60, 2012.</p> <p>5. M. Y. Naz, A. Ghaffar, N. U. Rehman, S. Shukrullah, M. A. Ali, Optical characterization of 50 Hz atmospheric pressure single dielectric barrier discharge plasma, <i>Progress In Electromagnetics Research M</i>, Vol. 24, 193-207, 2012.</p> <p>(2) The EXPERIMENTAL SETUP section does not explain: the measuring protocol, the details on double probes geometry and associated electronic circuit, the geometry of the DC discharge reactor, meshing of the radial and axial scanned area, the electrode geometry, used magnets, etc. Please follow the above mentioned papers and improve your paper accordingly.</p> <p>(3) The theory presented in the RESULTS AND DISCUSSION section should be the part of the INTRODUCTION. In order to know, how to structure the sections, please read the above mentioned papers and other similar kind of papers. Extensive discussions are desirable on the</p>	
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	presented results. (4) It would be better to present the graphs in 2D format rather 3D format. (5) English needs significant reworking as some sections are very difficult to understand.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	I would like to review this paper again after necessary modifications.	