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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 <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, 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:

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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	The using of electrical probes to obtain different parameters of the plasma is a widely well known process, and the author apparently uses this on a daily basis to make their experiments, as it is described in the reference 11 (self-quotation). A typical plasma researcher working with similar experiments knows that plasma characterization is a basic and necessary routine. Thus, the original contribution of the proposed work is not clear.	
	It is written in Introduction section "The use of dc glow discharge for plasma surface modification and plasma polymerization has not been reported in recent years," In fact, there are publications which deny this statement. If we search in "google" the terms (dc glow discharge for plasma surface modification), we can found several papers:	
	1. K Navaneetha Pandiyaraj, V Selvarajan, R R Deshmukh, "Effects of operating parameters on DC glow discharge plasma induced PET film surface," Journal of Physics: Conference Series 208 (2010) 012100.	
	2. K. Navaneetha Pandiyaraj, V. Selvarajan, R. R. Deshmukh, P. Yoganand, S. Balasubramanian, S. Maruthamuthu, "Low Pressure DC Glow Discharge Air Plasma Surface Treatment of Polyethylene (PE) Film for Improvement of Adhesive Properties,"	

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Plasma Science and Technology, (2013) 15 (1) 56 doi:10.1088/1009-0630/15/1/10.

- 3. T. Jacobs, E. Carbone, R. Morent, N. De Geyter, F. Reniers, C. Leys, "Surface modification of polymer films with a remote atmospheric pressure d.c. glow discharge: influence of substrate location," Surface and Interface Analysis (2010) 42(6-7) 1316 1320.
- 4. K. A. Vijayalakshmi, M. Mekala, C. P. Yoganand, K. Navaneetha Pandiyaraj, "Studies on Modification of Surface Properties in Polycarbonate (PC) Film Induced by DC Glow Discharge Plasma," International Journal of Polymer Science (2011), 426057, http://dx.doi.org/10.1155/2011/426057; etc.

There is not information in sections 2, 4 and 5.

In sections 3-1 and 3.2, the employed literals are not defined. Moreover in section 3-2, authors indicate that experimental pressure range was imposed from 1 to 6 mbar, nevertheless in figures 1 to 3 the reported ones are: 1, 2.5 and 4 mbar.

From figures 1 to 3, it is interesting to notice the intensity values of electrical measured currents (microampers), resulting from electric probe polarization. Here several remarks can be done, as: How were these values obtained without a shielded measurement equipment? A detailed description of instrumentation that does not exist in Reference 11 will be appreciated.

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<u>Minor</u> REVISION comments		
Optional/General comments	References not Refrences must be corrected,	
	standardized, diversified and renewed.	

Note: Anonymous Reviewer

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (07-06-2013)