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Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	**Ms_IRJPAC_27627**
Title of the Manuscript:	**MODELING ELECTROCATALYTIC ACTIVITY OF NITROGEN RADICALS**
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		
Minor REVISION comments	1. Is there any effect of the supports (*e.g.*, carbon nanotube paper) on the catalytic activities of the nitrogen radicals? Is it possible to examine those effects by DFT, if any? 2. Grammatical check and correction are needed. Also, the level of artwork should be improved.	
Optional/General comments	This work uses DFT to describe the adsorption of O_2 and O_2H on nitrogen radicals and the subsequent catalytic dissociation reactions that produce O and OH species participating in the reactions at the cathodes of fuel cells. The results suggest that N_8^- and N_4^- radicals have catalytic effects on the O_2H dissociation reaction, being consistent with experimental observation and meaningful in prediction of new catalysts.	

Reviewer Details:

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