#### SCIENCEDOMAIN international

www.sciencedomain.org



#### **SDI Review Form 1.6**

Journal Name:	Physical Science International Journal
Manuscript Number:	2015_PSIJ_17567
Title of the Manuscript:	Modeling and Simulation of High Blocking Voltage in 4H Silicon Carbide Bipolar Junction Transistors
Type of the Article	

# **General guideline for Peer Review process:**

This journal's peer review policy states that  $\underline{NO}$  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)

#### SCIENCEDOMAIN international

www.sciencedomain.org



## **SDI Review Form 1.6**

## **PART 1:** Review Comments

		A .1 .1
	Reviewer's comment	<b>Author's comment</b> (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)
<b>Compulsory</b>		
REVISION comments	The work of paper concerns a very interesting domain: power bipolar	
	transistors of new generation. The idea, presented in this paper, is	
	acceptable but the paper must be improved according to my proposals:	
	- Introduction: very long, the authors owe limited the description and the	
	electric functioning of the transistor. On the other hand, they have to keep	
	and specify the problems of the current transistors (breakdown of	
	junctions, voltages and currents,) and their contributions.	
	, , ,	
	- Paragraph 2: too long and badly structured. The authors feigned the	
	known general equations. I suggest revising this party by specifying:	
	structure of the transistors of power, basic equations by mentioning their	
	contribution, the typical simulations in relation with the problems of the	
	breakdown of the transistors junctions	
	breakdown of the translators junctions.	
	- Paragraph 3: normally in this party, the authors have to validate their	
	models and simulations. They modelled the experimental results of the	
	reference 34, but the discussions are insufficient and no work of validation	
	is made. Besides, they do not discuss the breakdown mentioned previously.	
	I suggest revising this party in terms of validation.	
	- Conclusion: to to revise by specifying the contribution of the authors:	
	equations and simulations of the performances of the studied bipolar	
	transistors.	
M. DEMICION		
Minor REVISION		
comments		







## **SDI Review Form 1.6**

Optional/General comments	

## **Reviewer Details:**

Name:	Anonymous
Department, University & Country	Mohamed Premier University, Morocco

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