

SCIENCEDOMAIN international

www.sciencedomain.org

SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_9933
Title of the Manuscript:	Numerical Simulation of Spin Glass State in Diluted Magnetic Materials Using Ising Spin Model in 2D with Distance Dependent interactions
Type of the Article	Original Research 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:

(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

	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		

SCIENCEDOMAIN international

www.sciencedomain.org



Optional/General comments	First of all it procents data that was already contained in	
	a previous publication by the same authors see Ref [2]	
	The manuscript contains several wrong assertions.	
	For example, in the introduction the sentence "This	
	implies that there is no long-range order in spin glasses" makes no sense.	
	At the end of page 3 the authors claim to introduce a	
	diluted version for the model, but this is not true, as the	
	diluted version has been already proposed in Ref.[11].	
	Data analysis is largely below the standards in the field of spin glasses.	
	Showing only $P(q)$, as the authors do, is not enough to	
	understand whether a spin glass phase exists at low	
	temperatures. Indeed the 2D short range Edwards-	
	temperatures, but still has very broad P(q) that	
	eventually will shrink to a delta function in the	
	thermodynamical limit.	
	Finite size appling applysis is completely about from the	
	manuscript and this not acceptable	
	Moreover the number of samples (100-200) is definitely	
	too small in order to obtain any reliable result.	
	Convergence to equilibrium and thermalization tests are	
	not shown at all.	
	I think that half of references are cited in places where	
	they are meaningless.	

Note: Anonymous Reviewer

SDI Review Form 1.6