



SDI Review Form 1.6

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_50411
Title of the Manuscript:	Competitive Reaction-Diffusion Systems: Traveling Waves and Numerical Solutions
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. 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>)

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>The diffusion constants are very near or identical. It is advised to take numerical values which the activator is very fast diffused rather than the inhibitor to obtain more realistic results.</p> <p>The reaction terms depend on space but periodically. It is preferable to be in other forms, likely to be squared in space (quadratic function). Add a nonlinear term to the diffusion that make your paper strong and different than swarm of systems in the literature.</p>	<p>According to the reviewer suggestions, we vary the diffusion coefficients and presented the results in 3D figures 3.1 (a-d). There are not enough changes since we established the travelling wave results using identical diffusion coefficients $d1 = d2$. Please check the revised version.</p> <p>In this paper, we consider only the periodic and spatially distributed functions as a competition coefficients in our last model (3.3). For future research, we are interested to consider the quadratic function.</p>
Minor REVISION comments	<p>The numerical scheme is not important to discuss. The discretization became common and no need to enlarge the paper with numerical computations. You may use COMSOL or mathematica Packages for PDE to validate your results</p> <p>Your reference are very old and in the recent there are lots of papers discussing reaction diffusion systems</p>	<p>With due respect to reviewer logical suggestions (not to increase the volume of the manuscript), we omitted numerical scheme (Appendix), instead used the pdepe package of MATLAB to get the solutions as well as CODEBLOCK 95 version of FORTRAN language.</p> <p>The reference lists are updated and added several recent published papers of reaction diffusion systems; please check the citations [24-28], and the relevant discussion are available in literature review in the last portion of introduction.</p>
Optional/General comments	Review some misprints and improve the language	

PART 2:



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	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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