



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_32795
Title of the Manuscript:	A Comparative Study of the Glycating Power of Simple Carbohydrates in the Maillard Reaction by Means of Conceptual DFT Descriptors
Type of the Article	Original Research 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>)



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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)
<u>Compulsory</u> REVISION comments	Plagiarism issue. I have found a similar manuscript (similar structure, similar words): "A conceptual DFT study of the molecular properties of glycating carbonyl compounds", Chem Cent J. 2017; 11: 8, by Juan Frau and Daniel Glossman-Mitnik. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5256638/	We thank the Reviewer for his/her comments. We have included a paragraph in the revised version of the manuscript explaining why this work is similar to others performed by us (published or unpublished) in that this study is part of an ongoing project on the glycation of amino acids and proteins. Indeed, this was already mentioned in the original manuscript, but the inclusion of this paragraph will be helpful in understanding our procedure. Moreover, we have included a reference to the publication mentioned by the Reviewer.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	In this work, DFT-based reactivity descriptors were used in the characterization and description of the preferred reactive sites of simple carbohydrates and provide an explanation for the reactivity of those molecules. This work could also be used for the study of the behaviour of other molecules, in particular for complex carbohydrates. The work is very well documented. The paper presents interesting results that could be useful in future.	