



SDI Review Form 1.6

Journal Name:	Chemical Science International Journal
Manuscript Number:	Ms_CSIJ_41452
Title of the Manuscript:	Chemical Reactivity Theory Applied to the Calculation of the Local Reactivity Descriptors of a Colored Maillard Reaction Product
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>)

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	The molecular name "4-(dicarboxymethyl)-5-(2, 3-dihydroxy propyl)-pyrrolo[3, 2-b]pyrrole-2-carboxaldehyde" or "1,4-(dicarboxymethyl)-5-(2, 3-dihydroxy propyl)-pyrrolo[3, 2-b]pyrrole-2-carboxaldehyde" does not represent the molecule in Figures 2 and 3. ΔSL is not defined. Description of the basis sets for TDDFT calculation is missing. Axis labels are missing in Figure 1. The values in Figure 1 are different from those in Table 3. f^0 is not defined.	This has been correct. It was a mistake and we thank the Reviewer for pointing this out. The definition of ΔSL has been included in the revised version of the manuscript. The basis set for the TDDFT calculations has been included in the revised version of the manuscript. This has been correct in the revised version of the manuscript. Now, the values in Figure 1 agree with those in Table 3. The definition of the radical Fukui function has been included in the revised version of the manuscript.
Minor REVISION comments	Abbreviation of PPA, RSH and KID may be defined at first appearance. Table 1 caption. Blue-M1 $\rightarrow$ PPA p. 104, l. 22. The sentence "In this work,...TDDFT calculations." does not make sense. Please rewrite it. Table 3 caption. Maximum wavelength absorption $\rightarrow$ Maximum absorption wavelength	The abbreviations are now defined in the revised version of the manuscript. We have changed Blue-M1 to PPA in the caption of Table 1. The incorrect sentence has been rewritten in the revised version of the manuscript. The caption of Table 3 has been corrected in the way suggested by the Reviewer.
Optional/General comments	The paper will be interesting for a number of readers of CSIJ. However, the paper cannot be accepted for publication in the present form due to ambiguity in the target molecule and discrepancy in data.	We have taken into account all the comments posed by the Reviewer and modified our manuscript accordingly.