



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_40011_A
Title of the Manuscript:	HYGROCHROMIC MATERIALS GENERATED BY MULTILAYER OF ELYTRON OF THE NECROBIA RUFIPES
Type of the Article	Original Research Article

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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.

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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	This paper focuses on to the study of the origins of blue spectrum of the elytron of Necrobia Rufipes. The authors used an experimental approach, the spectrometer, scanning electron microscope (SEM) and numerical method. The study of the origins of blue spectrum was recently published in the European Scientific Journal: "Structural Layer origin of the blue color reflections on the wings of the Junonia Orithya Madagascarensis" 2016, vol12, No 24. DOI: 10.19044/esj.2016.v12n24p147. (Reference 13). After the review, we found that 90% of the contents of this paper in terms of text, approach, methodology and formulas are similar to the reference 13. To publish this paper in the British Journal of Applied Science & Technology, the following revisions are strongly advised: rewrite the manuscript according to the following considerations : - To define clearly the objectives of the study. - The motivation for the present research would be clearer if the author could provide a more direct link between the importance of choosing an appropriate method and the selected specimens. - Give more discussions about the impact of this study in the field of nanotechnology, food industry, development of new building materials, etc.	- No, I don't think. The reference [13], we analyze the scales of the butterfly wings and in the present case, it is the cuticles of NECROBIA RUFIPES. In both cases I use the same experimental and numerical method, but these two cases are very different. Concerning the mathematical equations, there are 17 and 3 equations are in both papers. Also, it is necessary to analyze the results obtained and not the standard terms found in any scientific paper. - The paper's objectives are clear to the introduction. It is a question of studying the reflectance spectrum of cuticles (elytra) of NECROBIA RUFIPES. (Optical phenomenon) - The motivation is to explain the phenomena of interference or diffraction within a structure. - The object is reached; we have shown that the empty areas in the multilayer are small enough to cause diffraction. - We limit ourselves to optical phenomena. It is up to the nanotechnology research groups, notably the Atomic Layer Deposition (ALD) groups to see the possibilities of industrial applications.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		