



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_11049
Title of the Manuscript:	Synthesis and Glass immobilization of carbon and nitrogen doped TiO ₂ -SiO ₂ and its effect on E. coli ATCC 25922 bacteria
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.

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PART 1: Review Comments

	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>
<u>Compulsory</u> REVISION comments	The authors claimed that they prepared visible-light active photocatalysts (C-, N-modified). However, the activity of bare titania (in the form of powder) was much higher than modified ones. The DRS spectra are practically the same for TiO ₂ -SiO ₂ , C-TiO ₂ -SiO ₂ and N-TiO ₂ -SiO ₂ (they should be shown in one Figure for better comparison). In addition, doping character has not been proved (EDX shows only existence of C and N, in addition data for non-modified titania should be also presented as reference data). It was reported that some modification with urea (and similar compounds) results in titania surface modification, but not in doping. The papers of Prof. Kisch has not been discussed at all. It is surprised that the authors did not prepared C- and N- modified titania in the form of powder to check if this modification results in activity increase. It is more recommended to perform XRD than FT-IR, thus authors could have clear crystallinity data. It is also surprised that authors did not show reference data under dark conditions. The authors should improve discussion in comparison to other results..	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

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