



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2015_IRJPAC_18119
Title of the Manuscript:	Desulfurization of Tawke diesel fuel Using Na-Y type zeolite and active carbon
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:

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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	1. The title of the article should be changed to Desulphurization of Tawke diesel fuel by ADSORPTION on Na-Y type zeolite and active carbon	
<u>Minor</u> REVISION comments	1.The Introduction should state what will happen to the material that is adsorbed. Presumably it will be desorbed. What do the authors suggest for the next processing steps for the sulphur contain compounds ? 2.The Materials and Methods section states that the activated charcoal was calcined at 700°C. Was that done in air? If so what was the weight loss of the activated charcoal? 3.The Method section indicates that a flask shaker was used at a rate of 60 round / min. Would a better term be 60 shakes / min. ? 4.Table 1 lists the properties of diesel fuel. Weight percent sulphur should be added to the table. 5.Line 110 states that 19.2 % sulphur was recovered in 3 hours. If I use the sulphur value in Table 2 (at 60°C) of 0.9103, I calculate about 8.9 %. These numbers do not seem to be consistent. 6.Line 103-106 States most sulphur compounds are adsorbed in 3 hours. That is not consistent with only 19.2% sulphur being recovered.	



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	7.Line 131. The word “dyes” should be replaced with “coloured compounds”. The coloured compounds in diesel fuel (oxidized heteroatoms or oxidized polycyclic compounds) are not necessarily the same types of compounds that are used in dyes. 8.Line 133. the word “beaks” should be replaced with “peaks”. 9.Line 133 The authors state that the chromatograph after sulphur removal (Figure 3) has increased peak sizes compared to before sulphur removal (Figure 4). If sulphur compounds are removed, I would expect the corresponding peaks to decrease. The authors need to provide additional information.	
<u>Optional/General</u> comments		

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