



SDI Review Form 1.6

PART 1:

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2013_BJAST_4813
Title of the Manuscript:	"Performance evaluation of Photo and biodegradation of Low density Polyethylene using photodegradable additive ferrocene "[Part – II]
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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	- A lot of grammar and other English mistakes are present in text. Some sentence have no main verb, others are incomprehensible.... Rewriting in correct English - In processing and testing part : describe the measurement on DSC, ATG (conditions, samples dimensions, temperature range, under air or nitrogen). Describe apparatus and conditions for FTIR analysis and mechanical testing, How was made the optical evaluation ? - mechanical properties : What is the standard deviation on the measures? - DSC part : line 253 to 265 describe the results a second time. It is redundant compared with line 236 to 244....; How was calculated the degree of crystallinity ? explain why the migration of additives leads to a decrease in crystallinity : it is not obvious....(line 242) - FTIR :analysis : Are the spectra realized in quantitative or qualitative mode? In other words, is it possible to compare the intensity of the band ?? the peak at 1897 cm⁻¹ is assigned to a Fe-C stretching : give a reference. - biodegradation :	-The manuscript is revised & rewritten in correct English. -These measurements and conditions are described in sec.3. (line 203-246,pg.5-6). - refer to Table 3 for standard deviation on the measures. - Explained in sub sec.4.1.3.1(line301-309) -line 242 is corrected. -The FTIR spectra are realised in qualitative mode.



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	what are the sample 1 and the sample 2 ? How is evaluated the % biodegradation ? line 669 : "biodegradation is faster if the photodegradable product is formed " : what proves the presence of this photodegradable product in the test ?	-The sample 1 and the sample 2 are the same .Refer the sub sec.4.1.6.1 (line761-762, pg. 23). -Evaluation of the % biodegradation explain in line 221-243, pg.21-22. -The complete FTIR studies are the prove for formation of photodegradable products.(line770-773, pg.23)
<u>Minor</u> REVISION comments	- polyolefin's (line 52, 70, 108...) : it is for polyolefins ? - what means" S." In the tables ? - precise the title of the norms in the references and the tile of the articles cited.	-Manuscript is revised for these corrections. -correction is done -in reference section articles title are included.
<u>Optional/General</u> comments		