



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_20658
Title of the Manuscript:	Characterization of Low-cycle Fatigue Parameters
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.

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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	The experiments performed are not enough. I suggest to make microstructure analysis on the cracked surface and make some analysis on structure morphology.	I do also agree that the experiments performed are not enough for microstructure analysis. To substantiate the evidence of hardening/softening phenomena, particularly whether cyclic softening can be manifested as bands of cyclic slip, microstructure analysis through TEM images is necessary. The main objective of this paper is to characterize the material parameters of selected steels. Hence, for characterizing material constants, necessary monotonic and total strain-controlled fully reversed low-cycle fatigue tests at a wide range of temperatures were performed only. However, we are carrying out further substantial research currently on the specimens to show the morphology, cyclic slip bands, strain rate effect, and stress domain through TEM which will be published in our future works.
<u>Minor</u> REVISION comments	Some English grammatical errors required to be reviewed.	We have tried to eliminate grammatical errors in our revised manuscript.
<u>Optional/General</u> comments		