



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2015_BJAST_17530
Title of the Manuscript:	Nozzle Shape Optimization to Achieve the Maximum Gain in the GDLs
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 <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	Authors must clearly describe, How was affirmed that the maximum gain of new nozzle shape was increased about 10% in comparison with the simple linear nozzle. However, Authors should unambiguously define of maximum gain of new nozzle ie of 9 – 15% or 10%?	10 is changed to 9. It was just rounding. The numerical procedure is validated, and the present results are reliable. The wrong numbers are revised.
<u>Minor</u> REVISION comments	The geometry of a divergent nozzle of the gas dynamic laser was optimized to achieve the maximum possible gain in an optical cavity. The finite difference approximation approach was used to calculate the sensitivity matrix coefficient of the optimization procedure. The results was showed that the best possible geometry of the considered problem can improve the maximum small signal gain as much as about 10% in comparison with the simple linear nozzle. There are ethical issues in this manuscript.	I can't understand what to do here!
<u>Optional/General</u> comments	The manuscript contains seven figures. All figures were correctly prepared. Authors have used thirteen of literature sources. The all references concern to the problems of article. The paper contains some original data and results. However, this results did not be published to this time. The manuscript has got the technical character rather. The results of investigations were described correctly.	Thank you.