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I declare, I confirm, I certify and I sign that I received substantial, important, line by line peer review with several and substantial comments, important remarks and hints from, at least, 3 Reviewers and the Assistant Editor for my paper:

Pulsed Electromagnetic Gas Stimulator: Design and Suggestions for Rapid Prototyping (wseas-1521)

with Authors:

ILIAS CHRYSOCHERIS, MARIOS KOLANIS, EVANGELOS C. PAPAKITSOS, CHRISTOS DROSOS, ELENI SYMEONAKI, NIKOLAOS LASKARIS.

I would like to thank all the reviewers for their thoughtful comments and efforts towards improving our manuscript. We revised the manuscript with special attention to the comments that we received from **Three (3)** reviewers that were experts, specialists in the area of my paper. I declare, confirm, certify and sign that WSEAS has checked my paper for possible plagiarism by Turnitin and my paper was found without plagiarism or self-plagiarism by Turnitin. I also declare, confirm, certify and sign that also that no Associate-Editor, no Editor-in-Chief, no member of the WSEAS Secretariat forced me in this Journal to add references (citations) to any previous publications of the journal.

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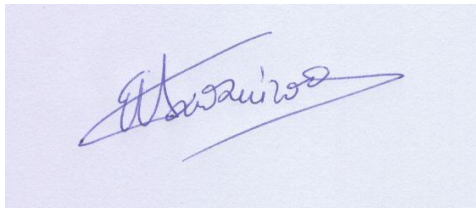
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The responses to the reviewers are uploaded in a separate file. The major revised parts are highlighted in yellow, to facilitate their checking.

Signature (insert an image file with scanned signature or print out the whole page, sign and scan)

A scanned image of a handwritten signature in blue ink on a light blue background. The signature is cursive and appears to read 'A. S. S. S. S. S.' followed by a long horizontal stroke.

Date: 23/12/2024

Responses to Reviewers (wseas-1521)

For every revised version, the authors will reply using the following tables

They will upload them via the web or will send them by email.

Authors will have to make all the changes, modifications, additions, studies, corrections asked by the reviewers using the following forms. Authors have to be fully complied with the reviewers' instructions. Before the publication, the three (or more than three) reviewers will check, if the changes, modifications, additions, studies, corrections etc have been carried out. In this case, the paper will be published or will be rejected or a new round of peer review will start.

Reviewer # 1

Reviewer's #1 comment	Authors response	Action Taken
The proposed "Pulsed Electromagnetic Gas Stimulator" system is conceptually similar to existing devices, such as those used for water splitting (e.g., Meyer's and Puharich's patents). The paper fails to adequately distinguish the novelty of this system from prior art.	The title of the paper has been changed to better reflect the purpose of its content.	Done.
The design of the pulse generator using Arduino Nano and a 3D-printed chamber does not present significant innovation. The application of such low-cost tools is common in similar experimental setups and lacks a groundbreaking contribution.	The contribution is not in using the Arduino Nano, but in how its microcontroller generates the necessary signals for controlling the inverters. The focus is on the rapid prototyping of the generator. It would be identical if the microcontroller and its associated circuitry were integrated directly onto the same PCB. In that case, the PCB would need to include the microcontroller, its crystal, and the necessary regulators, as this constitutes the basic circuitry and would replicate what is already present on the Arduino Nano.	In the text, the name of the microcontroller is used instead of the Arduino Nano, as it is the component that performs the necessary functions, with only a reference to the Arduino platform included.
Tell to the author to Improve the English language and the format.	We studied the content very carefully and made corrections.	Done.

Reviewer's #1 comment	Authors response	Action Taken
Tell to the author to add some references from the WSEAS Journals of the last 2 years	Unfortunately, we could not find any WSEAS articles that fit the subject of the paper.	No further action taken.
Can the author give directions for future research?	Yes, this is a section missing in the current document...	Added Section 4 (Future Work) and moved the Conclusions to section 5.
Tell them to correct some grammatical errors.	We studied the content very carefully and made corrections.	Done.

Reviewer #2

Reviewer's #2 comment	Authors response	Action Taken
The study relies solely on theoretical descriptions and limited prototype implementation.	The paper focuses on rapid prototyping. The generator was designed and implemented for gas stimulation; however, the stimulation process itself is beyond the scope of this paper. The described system was developed and tested based on the required output, rather than its effects on the gas, as this is to be addressed in a separate study.	The title of the paper has been changed to better reflect the purpose of its content.
There is no evidence of comprehensive experimental testing to substantiate claims about the effectiveness or efficiency of the proposed system.	The older title of the paper causes misunderstanding about its topic. The idea is to create a system that helps with gas stimulation studies. The main focus of the paper is on rapid prototyping of the generator rather than the stimulation process itself.	The title of the paper has been changed to better reflect the purpose of its content.
The paper lacks quantitative performance metrics for the gas stimulation process (e.g., energy efficiency, breakdown thresholds, or gas behavior analysis). Without such data, the impact of the system cannot be assessed.	The older title of the paper causes misunderstanding about its topic. The idea is to create a system that helps with gas stimulation studies. The main focus of the paper is on rapid prototyping of the generator rather than the stimulation process itself.	The title of the paper has been changed to better reflect the purpose of its content.

Reviewer's #2 comment	Authors response	Action Taken
<p>Pay high attention to the references. Every reference inside the text must be reported in the list of the references, and every reference in the list of the references must be connected inside the main text properly. The general policy of the WSEAS Journals in the references is the authors of the paper to dedicate maximum 10% of their citations to their previous publications with a maximum number 5. Also the references must have diversity to authors, journals and countries.</p>	<p>Perhaps using “[7] – [10]” does not clearly indicate references to [7], [8], [9], and [10].</p>	<p>Corrected in text.</p>

Reviewer #3

Reviewer's #3 comment	Authors response	Action Taken
<p>The figures and diagrams are poorly labeled and described. For instance, Figures 4, 5, and 6 lack meaningful annotations to convey their relevance to the discussion.</p>		<p>Figure captions corrected. The text is also rephrased to be clearer to the reader.</p>
<p>The writing contains numerous grammatical errors and awkward phrasings that obscure the technical content. For example, the introduction is overly verbose and lacks focus on the specific contributions of this work.</p>		<p>We studied the content very carefully and made additions and corrections.</p>
<p>The authors must expand the list of references to include more recent literature, especially post-2020 studies, to strengthen the relevance and currency of your work</p>	<p>No post-2020 studies on gas stimulation using pulsed electromagnetic fields could be found. The available studies primarily focus on biological tissues. Specific research on gas or liquid stimulation under pulsed electromagnetic fields appears to be lacking post-2020, highlighting this as a potential area for future investigation.</p>	<p>Some references to papers on the use of pulsed electromagnetic fields were added to the introduction to further emphasize the importance of studying their applications.</p>

<p>The authors are obliged to check if the in-text citations exist in the reference list also Check if all the articles in the reference list exist in the in-text citations.</p>	<p>Perhaps using “[7] – [10]” does not clearly indicate references to [7], [8], [9], and [10].</p>	<p>All in-text citations have been checked and are included in the reference list. Similarly, all articles in the reference list are cited within the text.</p>
<p>Can the authors of the article increase the examples and can they give some practical results? The conclusion can be written again in a more extended form</p>	<p>The paper focuses on rapid prototyping. The generator was designed and implemented for gas stimulation; however, the stimulation process itself is beyond the scope of this paper. The described system was developed and tested based on the required output, rather than its effects on the gas, as this is to be addressed in a separate study. Therefore, examples of gas stimulation and its results cannot be provided.</p>	<p>The conclusion was written again.</p>