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| Book Name: | [**Engineering Research: Perspectives on Recent Advances**](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4044** |
| Title of the Manuscript: | **Internal Combustion Engine Exhaust Waste Heat Recovery Using Thermoelectric Generator Heat Exchanger** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This article highlights the use of thermoelectric generators (TEGs) to recover waste heat from internal combustion engines, addressing their low efficiency (35-40%). It demonstrates improved voltage with series connections and reliability with parallel setups, offering a pathway to enhance engine performance and energy sustainability.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **YES** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Sufficient** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **YES** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **NO** |  |
| Is the language/English quality of the article suitable for scholarly communications? | YES |  |
| Optional/General comments | I have reviewed the article entitled "Internal Combustion Engine Exhaust Waste Heat Recovery Using Thermoelectric Generator Heat Exchanger." The manuscript includes 16 figures and 2 tables, which are well-prepared. I recommend the article for publication after addressing minor revisions.   1. Figures 2 and 3 require detailed explanations to enhance clarity and understanding. 2. Figures 7, 8, 9,10, 14, 15 and 16 require detailed explanations to enhance clarity and understanding. 3. The introduction needs additional references and you may cite the following references   Barhm Mohamad, Gábor L. Szepesi, Betti Bollo, Review Article: Effect of Ethanol- Gasoline Fuel Blends on the Exhaust Emissions and Characteristics of SI Engines, Vehicle and Automotive Engineering 2, Springer International Publishing, pp. 29-41, 2018.  Barhm Mohamad, Mohammed Ali, Hayder Neamah, Andrei Zelentsov, Salah Amroune, Fluid dynamic and acoustic optimization methodology of a formula-student race car engine exhaust system using multilevel numerical CFD models, Diagnostyka, 21(3), pp.103-111, 2020. DOI: 10.29354/diag/126562.  Barhm Mohamad, Jalics Karoly, Andrei Zelentsov, Salah Amroune, A hybrid method technique for design and optimization of Formula race car exhaust muffler, International Review of Applied Sciences and Engineering, AKADEMIAI KIADO, 11(2), pp. 174–180, 2020. DOI: 10.1556/1848.2020.20048.  Barhm Mohamad, Jalics Karoly, Andrei Zelentsov, Salah Amroune, A Comparison  Between Hybrid Method Technique and Transfer Matrix Method for Design Optimization of Vehicle Muffler, FME Transactions, 49(2), pp. 494-500, 2021. DOI: 10.5937/fme2102494M. |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Barhm Mohamad** |
| Department, University & Country | **Erbil Polytechnic University, Iraq** |