

Review Form 3

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| Journal Name: | Asian Journal of Research and Reviews in Physics |
| Manuscript Number: | Ms_AJR2P_130030 |
| Title of the Manuscript: | EFFECT OF TEMPERATURE ON THE STRENGTH OF MAGNET |
| Type of the Article | |

PART 1: Comments

| | Reviewer’s comment | Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| 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 manuscript is of significant importance to the scientific community as it explores the impact of temperature on the strength of permanent magnets. By delving into the underlying mechanisms, such as changes in magnetic domains and the Curie point, it contributes to a better understanding of magnetic materials' stability under varying thermal conditions. The study offers valuable insights for optimizing the performance of devices and machines that rely on magnetic components, ensuring greater efficiency and durability. | THANKS |
| Is the title of the article suitable? (If not please suggest an alternative title) | The title " EFFECT OF TEMPERATURE ON THE STRENGTH OF MAGNET " effectively conveys the core focus of the research, making it clear and relevant for the scientific community. | THANKS |
| 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. | The abstract provides a decent overview of the study but could benefit from revisions to improve clarity and comprehensiveness. Here are some suggestions for improvement: 1. Include a clear statement of the study's purpose, such as investigating the effect of temperature on the strength of magnets, emphasizing both the scientific and practical significance. 2. Summarize the main results or conclusions briefly, such as how temperature affects magnetic strength and at what ranges significant changes occur. 3. Provide a concise mention of the methodology, such as experiments with magnets at varying temperatures and measuring magnetic strength using specific tools. | THANKS. IMPROVED |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically sound in its general principles regarding the relationship between temperature and magnetism. It explains key phenomena like Curie temperature, the behavior of ferromagnetic materials, and the impact of heating and cooling on magnetic domains. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | Introduction section must be written on more quality way, i.e. more up-to-date references addressed. Research gap should be delivered on more clear way with directed necessity for the conducted research work | THANKS. IMPROVED |

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| Is the language/English quality of the article suitable for scholarly communications? | English language should be carefully checked and carefully check paper for language typos. | THANKS. IMPROVED |
| Optional/General comments | <div>1. The hypothesis and objectives are clearly stated. However, they could be rephrased to improve precision and readability. For instance, instead of "it works better or worst," you could state, "determine whether magnets exhibit greater strength at colder temperatures compared to higher temperatures."</div> <div>2. The review provides valuable historical and technical context but is overly lengthy and includes redundant details. Focus more on recent studies and findings directly related to temperature effects on magnetic strength to avoid diluting key points.</div> <div>3. Include units (e.g., degrees Celsius, distance in cm) in all tables and graphs.</div> <div>4. Ensure that any trends discussed in the results are supported by the presented data. Consider adding error bars to graphs to indicate variability.</div> <div>5. The conclusions align well with the results but could be better structured. Emphasize key findings and their implications more directly.</div> | THANKS. IMPROVED |

PART 2:

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| | 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) | NIL |