



Title

[The title of the manuscript should be concise, specific, and relevant. It should clearly state the main result or conclusion of the manuscript, omitting implicit terms and avoiding abbreviations.]

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Received: date month year **Accepted:** unknown **Published:** unknown

Cite this article: First Author, Second Author, Third Author. The title of the cited article. Journal Abbreviation. 2025;1:Manuscript ID. DOI

Abstract

[Suggestions: No more than 250 words. No citations. Define abbreviations at their first mention.]

The abstract should be unstructured and concise, summarizing the study in one clear paragraph. It should introduce the research objective and significance, briefly describe the main methods or approaches used, highlight the key and novel findings, and emphasize their broader impact, potential applications, or implications for future research.

Keywords: Keyword 1, keyword 2, keyword 3

[Typically, 3-8 keywords should be provided which can be used for describing the content of the manuscript and will enable the full text of the manuscript to be searchable online.]

1. Introduction

The Introduction section serves to set the stage for your research by providing background information, outlining the research problem, and stating the study's objectives.

2. Methods

The methods section should provide a detailed description of the research design and methodologies used to conduct the study.

2.1 Level 2 heading

2.1.1 Level 3 heading

Tips:

- *Research design:* Specify whether the study is qualitative, quantitative, or mixed-methods and justify the choice.
- *Data collection:* Describe how data were collected (e.g., experiments, simulations, site visits, design evaluations, user studies, computational modeling).
- *Materials and tools:* List key tools, software, or materials used (e.g., CAD software, models, analytical frameworks).
- *Procedure:* Outline the research process step by step to ensure reproducibility.
- *Data analysis:* Explain how data were analyzed (e.g., statistical, thematic, or visual analysis methods).

3. Results and Discussion

In the Results and Discussion section, authors should organize the content around key themes or research questions, presenting results followed immediately by their discussion. Use figures, tables, and graphs to illustrate findings, emphasizing key results relevant to the study objectives. Interpret results in context, compare them with existing literature, and address any unexpected outcomes with possible explanations. Finally, synthesize the overall findings to highlight major patterns, theoretical insights, and practical implications, demonstrating how the study advances the field or suggests future research directions.

Table 1 (other forms: Table 1 and Table 2), **Figure 1** (other forms: Figure 1A,B; Figure 2a,b,c; Figure 1 and Figure 2A) and **Equation (1)** [other forms:



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Equation (2) and Equation (3)] show the examples of diagrams. All the tables, figures and equations should be cited in sequence in the main content near to the first time they appear. For supplementary material, authors may cite table, equation and figure like **Table S1**, **Figure S1** and **Equation S(1)**.

Table 1. Key characteristics of the laminated PCC samples^[1].

Item	OBC/wt. %	PW/wt. %	EG/wt. %	Density/kg·m ⁻³
PCC1	20	80	0	912.3
PCC2	25	75	0	917.3
PCC3	23.75	71.25	5	920.4
PCC4	22.5	67.5	10	952.4
PCC5	21.25	63.75	15	977.6
PCC6	20	60	20	1,016.0

This part is footer. PCC: phase change composite; OBC: olefin block copolymer; PW: paraffin wax; EG: expanded graphite.

Table notes:

- Tables should be cited in numeric order and placed after the paragraph where it is first cited;
- The table caption should be placed above the table and labeled sequentially (e.g., Table 1, Table 2);
- Tables should be provided in editable form like DOC or DOCX format (picture is not allowed);
- Abbreviations and symbols used in table should be explained in footnote;
- Explanatory matter should also be placed in footnotes;
- Non-English words should be avoided;
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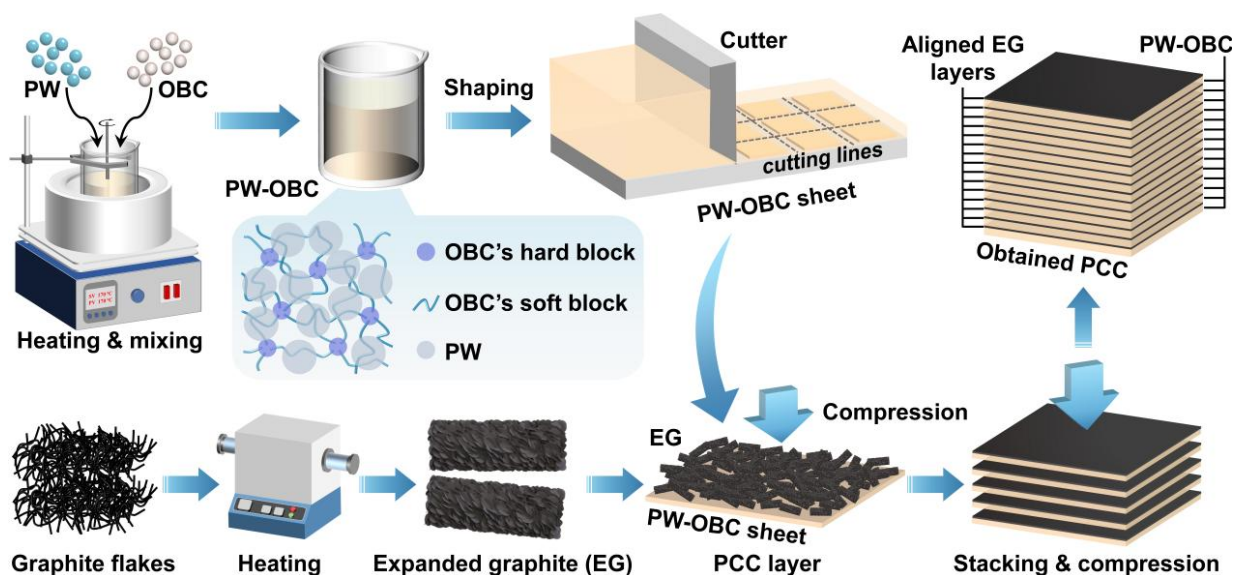


Figure 1. Fabrication sketch of the anisotropic conductive PCC with laminated structures^[1]. PW: paraffin wax; OBC: olefin block copolymer; PW-OBC: paraffin wax-olefin block copolymer; EG: expanded graphite; PCC: phase change composite.

Figure notes:

- Figures should be cited in numeric order (e.g., Figure 1, Figure 2) and placed after the paragraph where it is first cited;
- Figures can be submitted in format of tiff, psd, AI or jpeg, with resolution of 300-600 dpi;
- The figure caption should be positioned below the figure;
- Diagrams containing descriptive text (such as flow charts, coordinate diagrams, bar charts, line charts, and scatter plots) should be editable in Word, Excel, or PowerPoint formats. Non-English information should be avoided;
- Labels, numbers, letters, arrows, and symbols within figures should be clear, uniform in size, and contrast with the background;

- Symbols, arrows, numbers, or letters used to identify parts of the illustrations must be identified and explained in the legend;
- For figures with multiple panels, each panel should be distinctly labeled (A), (B), (C), etc;
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$$J = \frac{9}{8} \varepsilon_0 \varepsilon_r \mu \frac{E^2}{L}$$

Equation note:

- Equations should be provided in editable form (image file format is not allowed).

4. Conclusion

The Conclusion section should summarize the main findings of the research, highlight the significance of these findings, and suggest possible future research directions.

Tips:

- *Clarity and conciseness:* Keep the conclusion clear and concise, avoiding unnecessary repetition of details already covered in the main body of the paper.
- *No new information:* Avoid introducing new data or findings in the conclusion. All points discussed should have been covered in the results and discussion sections.
- *Forward-looking:* While summarizing the study, also emphasize the potential future developments in the field as suggested by your research.

Declarations

Acknowledgments

Anyone who contributed towards the article but does not meet the criteria for authorship, including those who provided professional writing services or materials, should be acknowledged. Authors should obtain permission to acknowledge from all those mentioned in the Acknowledgments section. This section is not added if the author does not have anyone to acknowledge.

Authors contribution

Each author should have contributed significantly to the conception, design, acquisition, analysis, or interpretation of data, or the creation of new software used in the work, or substantively revised the manuscript. Contributions should be indicated using Surname and Initials of Forename.

For example:

Single author:

The author contributed solely to the article.

Two or more authors:

Pal U, Li M: Data analysis and interpretation.

Tian P, Bella F: Article conception and design.

...

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This section should mention that consent to participate was obtained from all participants or their legal representatives, ensuring that participants were fully informed about the study's purpose, procedures, risks, and benefits before consenting to participate.

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Funding

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References

1. Huang H, Yang X, Qiu Y, Cao XE, Liu L, Li C, et al. Anisotropic conductive phase change composites enabled by parallel expanded graphite sheets for solar-thermal energy storage. *Thermo-X*. 2025;1:202506. [DOI:10.70401/tx.2025.0005]

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