# Manuscript Title

First\_Name\_1 Middle\_Name\_1/Initial\_1 (optional) Last\_Name\_11, First\_Name\_2 Middle\_Name\_2/Initial\_2 (optional) Last\_Name\_22, First\_Name\_3 Middle\_Name\_3/Initial\_3 (optional) Last\_Name\_32\*

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# Graphical abstract (required)

# The graphical abstract is an image that summarizes the main findings of the research. It adds a visual component to the start of a manuscript, helping readers quickly appreciate and understand the central message. The graphical abstract may be submitted at any stage but is only required with the final submission. The image should be 5.5ⅹ5.5 inches in dimension, 650ⅹ500 pixels at 300 dpi, using Arial font with a size of 12–16 points, accompanied by a brief description of the image in 20 words or less. Additionally, the highlights of the research should be provided using 3 to 4 points within a total of 200 words.

# Abstract

# The abstract of a Research Article or Report should explain to general readers why the research was carried out, what was found, and why the results are significant or even transformative. It should start with some brief background context, i.e., a sentence broadly introducing the field that can be comprehended by general readers, and a subsequent sentence detailing more specific background of the research. This should be followed by a description of the goals/methods and then results. The final sentence should depict the main conclusions of the research, in terms comprehensible to general readers. Citations or abbreviations should not be included in the abstract. The abstract should be no more than 200 words.

# Keywords

Lorem, ipsum, dolor sit amet, esse, vitae, partiendo

# Introduction

The Introduction should be succinct, with no subheadings, and should present the necessary background information to provide a biological context for the results.

# Materials and methods

The materials and methods section may contain subheadings.

The materials and methods section needs to include sufficient detail so that readers can understand how the experiments were performed and so that all procedures can be repeated in conjunction with cited references. This section should also include a description of any statistical methods employed in the study.

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# Results and Discussion

The results section may contain subheadings.

The discussion should explain the significance of the results and place them into a broader context. It should not be redundant with the results section. This section may contain subheadings.

Subheading 1, Level 1 (optional/encouraged) 1. Fundamentals of Photocatalytic Methane Conversion

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Subheading 2, Level 1 (optional/encouraged) 2. Achievements in photocatalytic methane conversion

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Subheading 1, Level 2 (optional) 2.1 Total oxidation of methane for CO2 production

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Subheading 2, Level 2 (optional) *2.2. Dry-reforming and partial oxidation of methane for CO production*

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# Conclusion

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# Supporting Information (if applicable)

# This section should be titled "supplemental information" and should briefly list what types of data are included in the supplemental information. For example, "supplemental information includes four figures and two tables."

# Disclosures (if applicable)

# Provide any disclosures regarding safety, regulations, or research ethics statements in this section. Any significant hazards or risks encountered in carrying out the research described in the manuscript must be addressed in this section. If any such hazards exist, a description and approach to mitigate the hazards must be included.

# Conflict of Interest (required)

Disclose any conflicts of interest. If no conflicts of interest exist, include the following statement: There is no conflict of interest to report.

# Funding Information (required)

This research was made possible as a result of a generous grant from XYZ Foundation (Grant Number 123567).

# Preprint Statement (if applicable)

# Research presented in this article was posted on a preprint server prior to publication in JUSTC. The corresponding preprint article can be found here: (DOI; Direct Link)

# Acknowledgments (if applicable)

The authors wish to acknowledge Professor ABC for his helpful discussions regarding the experimental design.

# References

# Reference citations in the text should be numbered consecutively in square brackets. Some examples:

# Deep learning has seen considerable growth in the past decade [1-4].

# *R* represent polarization resistance[16,17].

# References should include only articles that are published. Personal communications and unpublished work should only be mentioned in the text. Do not use footnotes or endnotes as a substitute for a reference list. In the references list, "et al." should be used only after 3 authors. References with fewer authors should list all authors. Please use the following styles for references:

*Article in a journal publication*

[1] Mnih V, Kavukcuoglu K, Silver D, et al. Human-level control through deep reinforcement learning. *Nature*, **2015**, *518* (7540): 529–533.

*Article in a book*

[2] King S M. Dynein motors: Structure, mechanochemistry and regulation. In: Schliwa M, editor. Molecular Motors. Weinheim, Germany: Wiley‐VCH Verlag GmbH & Co. KGaA, **2003**: 45–78.

*Entire book*

[3] Zaitsev A M. Optical Properties of Diamond: A Data Handbook. Berlin: Springer, **2001**.

*Online reference*

[4] King M D, Tsay S C, Platnick S E, et al. Cloud retrieval algorithms for MODIS: Optical thickness, effective particle radius, and thermodynamic phase. **1997**. https://eospso.gsfc.nasa.gov/sites/default/files/atbd/atbd\_mod05.pdf. Accessed March 12, 2019.

*Dissertation/thesis*

[5] Smith J P. DNA sequences. Thesis. Cambridge, MA: Massachusetts Institute of Technology, **1985**.

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Figure titles and legends should be included in the submitted manuscript as a separate section, consisting of a brief title that describes the entire figure without citing specific panels and a subsequent description of each panel.

Each figure must be numbered consecutively with whole numbers. In other words, figures must be numbered as Figure 1, Figure 2, Figure 3, etc., rather than as Figure 1a, Figure 1b, Figure 1c, etc.

Figures may not exceed one page.

Figure titles may not contain parenthetical information, reference citations, or footnotes.

All reference citations within a figure must also be included in the figure legend.

For any figures presenting pooled data, the measures should be defined in the figure legends (for example, data are represented as the mean ± SEM).

**Tables**

Include tables in the submitted manuscript after the figure titles and legends. Tables should not be saved as figures, e.g., as .jpg or .tif files. All tables intended for print should be incorporated into the end of the manuscript Word file. Tables should not be uploaded individually.

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Use superscripted lowercase letters (beginning with "a") for footnotes in tables. Do not use numbers or symbols.

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If italic font is used within a table to indicate some feature of the data, an explanation of its meaning must be given in the table legend. Bold text may not be used in tables.

If a referenced paper or study is mentioned within a table, it must be included in the references list and must be followed by its appropriate citation number (e.g., "Author et al.1") within the table.

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