Manuscript Title

Author One 1, Author Two1, and Author Three 1,2

1 *Affiliation of First author*

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**Abstract** The abstract should be no longer than 150 words. It should be informative, without descriptive words or citations, and contain the major conclusions and quantitative results or other significant items in the paper. Together with the title, the abstract must be adequate as an index to all the subjects treated in the paper, and will be used as a base for indexing. Please see the High Power Laser Science and Engineering (HPL) author style guide for complete instructions on preparing an HPL manuscript

Key words:2-5 words

I. INTRODUCTION

Sub-section

Text

(Use TAB to indent first line of second and succeeding paragraphs)

II. WORKING PRINCIPLE

Sub-section

Text

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(Use TAB to insert equation, centered; TAB again to insert equation number)

Note the following:

1. Use an equation editor such as MathType for all math, including in-text math.
2. use bracketed style for reference callouts: “. . . in this study [2]. Further examples can be seen in [3,17].”

Figures，will normally be reduced to one column width (6-8 cm). In the figures, the main lines should be about 0.3 mm in width, and the assistant lines 0.15 mm. Notations in the figures should be distinct and consistent with the same ones in the text, and their font size will be 7-9 pt. The positions of figures should be marked in the text by boxes of a suitable size. Each figure should have its own caption. For photographs, the original photos must be supplied with good contrast and clearly distinguishable details.

Position of figures

Tables , numbered in order of appearance, should be appended on separate sheets and identified with appropriate titles. The table title, which should be brief, goes above the table. A detailed description of its contents or table footnotes should be given directly below the body of the table.

Table

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Acknowledgement

Please identify all funding sources (by name and contract number, as appropriate) in the acknowledgments.

References

1. N. C. Danson, C. Haefner, J. Bromage, and T. Butcher, “Petawatt and exawatt class lasers worldwide”, High Power Laser Sci. Eng. 7, e54 (2019). DOI: <https://doi.org/10.1017/hpl.2019.36>
   * All of the references’ authors, titles and DOI or links (if any) should be given. Here are some examples of how to set the most common reference types:

References

References must be published work, and numbered consecutively in order of their first citation. References should be listed individually at the end of the text and indicated in the text with a superscript number in square brackets. All of the references’ authors, titles and DOIs or links (if any) should be given. Here are some examples of how to set the most common reference styles:

*Journals*: N. C. Danson, C. Haefner, J. Bromage, and T. Butcher, “Petawatt and exawatt class lasers worldwide”, High Power Laser Sci. Eng. 7, e54 (2019). DOI: <https://doi.org/10.1017/hpl.2019.36>

*Books*: N. Bloembergen, *Nonlinear Optics* (Benjamin, New York, 1965),p.124.

*Conference proceedings*: R. E. Kalman, “A new approach to linear filtering and prediction problems”, in *Proceedings of Advanced Seminar on Generalized Inverse and Applications*, M. Z. Nashed, ed. (Academic, San Diego, CA, USA, 1976), p. 111.

*Patents*: A. C. Hart, Jr., R. G. Huff, and K. L. Walker, “Method of making a fiber having low polarization mode dispersion due to a permanent spin”, U.S. patent 5,298,047 (March 29, 1994).

*Dissertations*: K. L. Corwin, “A circularly-polarized optical dipole trap and other developments in laser trapping of atoms”, PhD. Thesis (University of Colorado, 1999). <https://www.semanticscholar.org/paper/A-Circularly-Polarized-Optical-Dipole-Trap-and-in-Corwin/cdef20670555e8732aa1c24b613a01d57f9587db>

*Online references*: H. R. Sheikh, Z. Wang, L. Cormack, and A. C. Bovik, “Live image quality assessment database release 2”, <http://live.ece.utexas.edu/research/quality> (September 8, 2006).

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Figures and tables

Figure and table captions