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| **Abstract:** This MS-WORD template is provided for authors who submit to the International Journal of Microgravity Science and Application (IJMSA). Abstract must be provided in single paragraph of about 200 words maximum together with a “Graphical Abstract” for the paper. The main body of the abstracts should give a pertinent overview of the work. The editorial board strongly encourage authors to organize the abstract as following style: 1) Background: Place the question addressed in a broad context and highlight the purpose of the study; 2) Methods: Describe briefly the main methods or treatments applied; 3): Results: Summarize the paper’s main findings; and 4) Conclusions: Indicate the main conclusions or interpretations. The abstract should be an objective representation of the paper, it must not contain results which are not presented and sbstantiated in the main text and should not exaggerate the main conclusions. All the paper must provide the Graphical Abstract as a single figure. The right-top area in the abstract is reserved for the Graphical Abastract. The width of this area is fixed as 65mm, whereas authors can adjust the height of the area. After the paper is accepted for the publication, the Graphical Abstract |
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1. Structure & style of the sections

The template details the sections that can be used in a manuscript. Note that each section has a corresponding style, which can be found in the `Styles’ menu of MS-WORD. The depth of the sections should not be grater than three which is corresponding the `Subsubsection’.

* 1. Sub-section
     1. Subsubsection

1. Main body

Main body of the paper

1. Citations in the main body

In the main body, references should be numbered in order of appearance and indicated by a numeral or numerals as superscripts with right parenthesis, e.g., this1), this2,3) or this4-6).

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All figures and tables should be cited in the main text as **Figure 1**, **Table 1**, etc. Figures must be embedded. All the line arts or illustrations should be provided as Scalable vector formats. The preferred file formats for the MS-WORD are EMF, WMF or SVG. We suggest the use of Adobe Illustrator (Paid, OS X, Windows), MS-PowerPoint (Paid, OS X, Windows) or Inkscape (Freeware, OS X, Windows, Linux) for the creation of acceptable illustrations. The pixel-based images and photographs should be provided as sufficient resolution (300 dpi is preferred), and we suggest the use of Adobe Photoshop (Paid, OS X, Windows) or GIMP (Freeware, OS X, Windows, Linux) for the editing of acceptable photographs.

  
(a)

  
(b)

**Figure 1.** If there are multiple sub-figures, they should be listed as: (a) Description of what is contained in the first sub-figure; (b) Description of what is contained in the second sub-figure. Figures should be placed in the main text near to the first time they are cited. The caption which exceeds multiple lines should be styled using “Figure Caption multiline”.

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| **Title 1** | **Title 2** | **Title 3** |
| entry 1 | data | data |
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1 Tables may have a footer.

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1. Mathematical Components

The followings are examples of equations:

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| --- | --- |
|  | (1) |
|  | (2) |
|  | (3) |
|  | (4) |

where is xxx, is yyy, and is zzz. The text following an equation need not be a new paragraph. Equations should be punctuated as regular text. The differential operator `d’ should be written in Roman style. For detailed styles regarding quantities, units and symbols, the IJMSA basically follows the document published by IUPAC [[Quantities, Units, and Symbols in Physical Chemistry, 3rd edition, IUPAC 2007](https://iupac.org/wp-content/uploads/2019/05/IUPAC-GB3-2012-2ndPrinting-PDFsearchable.pdf)].

Supplementary Materials

The following are available online at www.jstage.jst.go.jp/browse/ijmsa/xxxxx, Figure S1: title, Table S1: title and Video S1: title.

Acknowledgments

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Appendix A

The appendix is an optional section that can contain details and data supplemental to the main text. For example, explanations of experimental details that would disrupt the flow of the main text, but nonetheless remain crucial to understanding and reproducing the research shown; figures of replicates for experiments of which representative data is shown in the main text can be added here if brief, or as Supplementary data. Mathematical proofs of results not central to the paper can be added as an appendix.

Nomenclature

Nomenclature is an optional section where the many variables and symbols are defined. Nomenclature should be provided as the Table with transparent border lines.

|  |  |
| --- | --- |
|  | diameter (m) |
|  | gravity acceleration (m/s2) |

References

References must be numbered in order of appearance in the main body (including citations in tables and legends) and listed individually at the end of the manuscript. Include the digital object identifier (DOI) for all references where available. In the text, reference number should be placed in the superscripts with right parenthesis, e.g., this1), this2,3) or this4-6).

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