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# Article preparation guidelines for *Astrophysics and Space Science*

**Abstract** This paper explains the use of template provided for manuscript preparation and give some practical guidance.

## 1 Introduction

Template is based on AAST<sub>TEX</sub> v5 package developed by the American Astronomical Society (AAS). It is available in the bundle you have downloaded, or you can obtain it from <http://www.journals.uchicago.edu/AAS/AASTeX/>. The AAST<sub>TEX</sub> guide on manuscript preparation should be followed.

The bundle comes with two additional packages: `spr-astr-addons.sty` and `spr-mp-nameyear.bst`. The package `spr-astr-addons.sty` redefines some internals of AAST<sub>TEX</sub> class, giving an author a general idea about the final article output. It superseeds layout AAST<sub>TEX</sub> class options. The package defines new macros `\citeauthor`, `\citeyear` (see Section 3.1) and redefines abbreviations of journal names (Section 4). Author may wish not use this package, having plain AAST<sub>TEX</sub>.

The file `spr-mp-nameyear.bst` is a Bib<sub>TEX</sub> style (see Section 5.1)

Next, there are some additional remarks on manuscript preparation that are not in AAST<sub>TEX</sub> guide.

## 2 Frontmatter

### 2.1 Abstract

While in general we strongly encourage authors to use `\cite` command to cite reference(s) (see Section 3.1), the abstract is an exception. Please cite references, that appear in abstract, in full. This is due to the fact that an electronic version of abstract can appear on the web without references list, resulting in citing undefined

item. Therefore, please cite Alexander and Ferguson, *Astrophys. J.* **437**, 879 (1994) instead of Alexander and Ferguson (1994).

## 3 Mainmatter

### 3.1 Cite references

Please use `\cite` command (or equivalent command `\citep`, `\citet`, `\citeauthor`, `\citeyear`) to cite reference(s). See Section 4 of `sample.tex`.

### 3.2 Use labels

You can define labels for many items like sections, equations, figures, tables, and citations. The systematic use of these labels greatly facilitates the writing of a scientific article. It permits one to re-number or re-order automatically the features during the compilation (e.g. when adding or moving a section).

## 4 Journal abbreviations

<code>\aj</code>	Astron. J.
<code>\actaa</code>	Acta Astron.
<code>\araa</code>	Annu. Rev. Astron. Astrophys.
<code>\apj</code>	Astrophys. J.
<code>\apjl</code>	Astrophys. J. Lett.
<code>\apjs</code>	Astrophys. J. Suppl. Ser.
<code>\ao</code>	Appl. Opt.
<code>\apss</code>	Astrophys. Space Sci.
<code>\aap</code>	Astron. Astrophys.
<code>\aapr</code>	Astron. Astrophys. Rev.
<code>\aaps</code>	Astron. Astrophys. Suppl. Ser.
<code>\azh</code>	Astron. Zh.
<code>\baas</code>	Bull. Am. Astron. Soc.
<code>\caa</code>	Chin. Astron. Astrophys.
<code>\cjaa</code>	Chin. J. Astron. Astrophys.
<code>\icarus</code>	Icarus

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<code>\jcap</code>	J. Cosmol. Astropart. Phys.
<code>\jrasc</code>	J. R. Astron. Soc. Can.
<code>\memras</code>	Mem. R. Astron. Soc.
<code>\mnras</code>	Mon. Not. R. Astron. Soc.
<code>\na</code>	New Astron.
<code>\nar</code>	New Astron. Rev.
<code>\pra</code>	Phys. Rev. A
<code>\prb</code>	Phys. Rev. B
<code>\prc</code>	Phys. Rev. C
<code>\prd</code>	Phys. Rev. D
<code>\pre</code>	Phys. Rev. E
<code>\prl</code>	Phys. Rev. Lett.
<code>\pasa</code>	Proc. Astron. Soc. Aust.
<code>\pasp</code>	Publ. Astron. Soc. Pac.
<code>\pasj</code>	Publ. Astron. Soc. Jpn.
<code>\qjras</code>	Q. J. R. Astron. Soc.
<code>\rmxaa</code>	Rev. Mexicana Astron. Astrofis.
<code>\skytel</code>	Sky Telesc.
<code>\solphys</code>	Sol. Phys.
<code>\sovast</code>	Soviet Astron.
<code>\ssr</code>	Space Sci. Rev.
<code>\zap</code>	Z. Astrophys.
<code>\nat</code>	Nature
<code>\iaucirc</code>	IAU Circ.
<code>\aplett</code>	Astrophys. Lett.
<code>\apspr</code>	Astrophys. Space Phys. Res.
<code>\bain</code>	Bull. Astron. Inst. Neth.
<code>\fcp</code>	Fundam. Cosmic Phys.
<code>\gca</code>	Geochim. Cosmochim. Acta
<code>\grl</code>	Geophys. Res. Lett.
<code>\jcp</code>	J. Chem. Phys.
<code>\jgr</code>	J. Geophys. Res.
<code>\jqsrt</code>	J. Quant. Spec. Radiat. Transf.
<code>\memsai</code>	Mem. Soc. Astron. Italiana
<code>\nphysa</code>	Nucl. Phys. A
<code>\physrep</code>	Phys. Rep.
<code>\physscr</code>	Phys. Scr.
<code>\planss</code>	Planet. Space Sci.
<code>\procspie</code>	Proc. SPIE

## 5 Backmatter

### 5.1 The `thebibliography` environment

AAS<sub>TeX</sub> uses `natbib` package for citation management. If you use Bib<sub>TeX</sub> to generate the bibliography list, please use `spr-mp-nameyear-cnd` style provided with this bundle:

```
\bibliographystyle{spr-mp-nameyear-cnd}
\bibliography{<bib file>}
```

Alternatively you can define bibliography list as follows:

```
\bibitem[\protect\citeauthoryear{<author>}{<year>}]{<key>}■
  <bibliographic data>
```

## References

Alexander, D.R., Ferguson, J.W.: Low-temperature Rosseland opacities. *Astrophys. J.* **437**, 879 (1994)