

# Elsevier L<sup>A</sup>T<sub>E</sub>X template<sup>☆</sup>

Elsevier<sup>1</sup>

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## Abstract

This template helps you to create a properly formatted L<sup>A</sup>T<sub>E</sub>X manuscript.

*Keywords:* `elsarticle.cls`, L<sup>A</sup>T<sub>E</sub>X, Elsevier, template

*2010 MSC:* 00-01, 99-00

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## 1. The Elsevier article class

*Installation.* If the document class *elsarticle* is not available on your computer, you can download and install the system package *texlive-publishers* (Linux) or install the L<sup>A</sup>T<sub>E</sub>X package *elsarticle* using the package manager of your T<sub>E</sub>X installation, which is typically T<sub>E</sub>X Live or MikT<sub>E</sub>X.

*Usage.* Once the package is properly installed, you can use the document class *elsarticle* to create a manuscript. Please make sure that your manuscript follows the guidelines in the Guide for Authors of the relevant journal. It is not necessary to typeset your manuscript in exactly the same way as an article, unless you are submitting to a camera-ready copy (CRC) journal.

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<sup>☆</sup>Fully documented templates are available in the *elsarticle* package on CTAN.

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*URL:* `www.elsevier.com` (Elsevier Inc)

<sup>1</sup>Since 1880.

*Functionality.* The Elsevier article class is based on the standard article class and supports almost all of the functionality of that class. In addition, it features commands and options to format the

- document style
- baselineskip
- front matter
- keywords and MSC codes
- theorems, definitions and proofs
- labels of enumerations
- citation style and labeling.

## **2. Front matter**

The author names and affiliations could be formatted in two ways:

- (1) Group the authors per affiliation.
- (2) Use footnotes to indicate the affiliations.

See the front matter of this document for examples. You are recommended to conform your choice to the journal you are submitting to.

## **3. Bibliography styles**

There are various bibliography styles available. You can select the style of your choice in the preamble of this document. These styles are Elsevier styles based on standard styles like Harvard and Vancouver. Please use Bib $\text{\TeX}$  to generate your bibliography and include DOIs whenever available.

Here are two sample references: [1, 2].

## 4. Introduction

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

### 4.1. Some subsection

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

## 5. other

This section is used testing that the packages perform as expected regardless of the template in hand.

### 5.1. General

Here is some text referencing some eq. (1) and fig. 1.

$$\alpha = \sqrt{\beta} \tag{1}$$

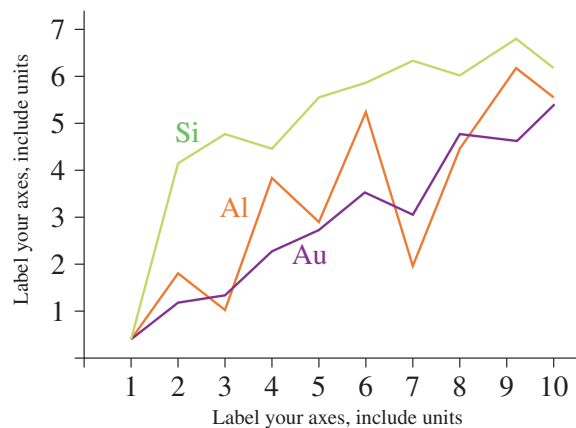


Figure 1: Simulation Results

## 5.2. Acronyms

Example showing how plurals are easily handled:

first time: Acronym Beautifully Crafted (ABC) [? ]

second time: ABC

short: ABC

alternative: ABC

first again: Acronym Beautifully Crafted (ABC) [? ]

long: Acronym Beautifully Crafted

short plural: ABCAsBC

long plural: Acronym Beautifully CraftedAcronyms Beautifully Crafteds

Here is an example of this acro package using nested declarations and macro-acronyms calls, taken from [stackoverflow](#).

### *nested acronyms example 1*

Deoxyribonucleic acid (DNA) is a very important molecule. The virus xyz contains double-stranded DNA (dsDNA). Apart from that, DNA exists in almost all cells of the body. In most cases it is dsDNA.

*nested acronyms example 2*

The virus xyz contains double-stranded deoxyribonucleic acid (dsDNA). Deoxyribonucleic acid (DNA) is a very important molecule. Apart from that, DNA exists in almost all cells of the body. In most cases it is dsDNA.

## References

- [1] R. Feynman, F. Vernon Jr., The theory of a general quantum system interacting with a linear dissipative system, *Annals of Physics* 24 (1963) 118–173. doi:10.1016/0003-4916(63)90068-X.
- [2] P. Dirac, The lorentz transformation and absolute time, *Physica* 19 (1-12) (1953) 888–896. doi:10.1016/S0031-8914(53)80099-6.