

How to Compose a Scientific Paper

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Lecture presented at APS, Nankai University, China

<http://www.home.uni-osnabrueck.de/phertel>

October/November 2011

Peter Hertel

Overview

The paper is
the goal

The paper is a
project

Collect
references,
pictures,
tables

Writing text

Checklist

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- Submit the paper

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think about the paper .

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- . . . by the paper
- For encouragement - always have a current version



This Swiss Army knife is good for many things, but not for digging

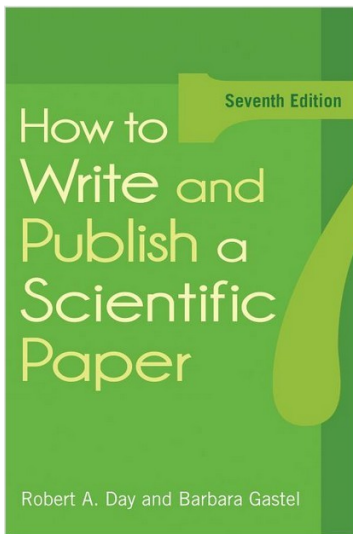


www.shutterstock.com · 29294116

For digging in your garden, use a spade



For writing letters or a business report, use MS-Word



For writing a scientific paper, use LaTeX

Your Research - a Project

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- Try to write down a plan for your research

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- step by step ...
- as in following example

```
1 % this file is zfy.tex
2 \documentclass[preprint]{elsarticle}
3 \input{zfy.sty}
4
5 \begin{document}
6
7 \input{zfy-frm.tex} % front matter
8 \input{zfy-int.tex} % introduction
9 \input{zfy-exp.tex} % experimental setup
10 \input{zfy-res.tex} % results
11 \input{zfy-dis.tex} % discussion
12 \input{zfy-cnc.tex} % conclusion
13
14 \section*{Acknowledgement}
15 \noindent T0-D0
16
17 \section*{References}
18 \bibliographystyle{elsarticle-num}
19 \bibliography{zfy}
20
21 \end{document}
22 % end of file zfy.tex
```

```
1 % this file is zfy-frm.tex
2 \title{Optical isolator based on photonic
3 crystals}
4 \author[moe]{Zongfu Yu}
5 \author[moe,uvp]{Romano A. Rupp}
6 \author[moe]{Xingzheng Zhang\corref{cor}}
7 \address[moe]{The MOE Key Laboratory of Weak-Light
8 Nonlinear Photonics, TEDA Applied Physics School
9 and School of Physics,
10 Nankai University, Tianjin, 300457, China}
11 \address[uvp]{Falcuty of Physics, Vienna
12 University, Boltzmanngasse~5, A-1090 Wien, Austria}
13 \cortext[cor]{corresponding author,
14 zxz@nankai.edu.cn}
15 \begin{abstract}
16 TO-DO
17 \end{abstract}
18 \begin{keyword}
19 optical isolator, photonic crystal, TO-DO
20 \end{keyword}
21 \maketitle
22 % end of file zfy-frm.tex
```


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- advice: sort `.bib` file alphabetically by key
- included in your text by `\cite{...}`
- appearance governed by `\bibliographystyle`

```
1  % this file is zfy.bib for BibTeX
2
3  @ARTICLE{Baruffa10,
4  AUTHOR = {F. Baruffa and P. Stano and J. Fabian},
5  TITLE = {Theory of anisotropic exchange in
6  laterally coupled quantum dots},
7  JOURNAL = {Phys. Rev. Lett.},
8  YEAR = {2010},
9  volume = {104},
10  pages = {126401},
11  }
12
13 @BOOK{Michler09,
14  AUTHOR = {P. Michler},
15  TITLE = {Single semiconductor quantum dots},
16  PUBLISHER = {Springer},
17  YEAR = {2009},
18  address = {Berlin},
19  }
20
```


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```
>>print -depsc zyf-fig12.eps
```
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- $\backslash FG\{zyf-fig12.pdf\}\{70mm\}$
 $\{Optical\ isolation\ (dB)\ vs.\ probe$
 $temperature\ (degrees\ Celsius).\}$

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>>print -depsc zyf-fig12.eps
```
- -depsc means Device Encapsulated Postscript Color
- newer Matlab versions know -dpdf
- $\backslash\text{FG}\{\text{zyf-fig12.pdf}\}\{70\text{mm}\}$
 $\{\text{Optical isolation (dB) vs. probe temperature (degrees Celsius).}\}$
- ... is plotted in $\backslash\text{FR}\{\text{zyf-fig12.pdf}\}$

```
1  % this file is zyf.sty
2
3  ...
4
5  \newcommand{\FG}[3]{
6    \begin{figure}[!hbt]
7      \begin{center}
8        \includegraphics[width=#2]{#1}\\[3mm]
9        \caption{#3}
10       \label{#1}
11     \end{center}
12   \end{figure}
13 }
14
15 \newcommand{\FR}[1]{Figure~\ref{#1}}
16
17 ...
18
```


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- use a Thesaurus



m-w.com

Word Games | Word of the Day | New Words & Slang | Video |  

Dictionary | Thesaurus | Spanish-English | Medical | Encyclo.

put 

put

17 ENTRIES FOUND:

- put (verb)
- put away (verb)
- put by (verb)

Ads by Google

Instant Grammar Checker
Correct All Grammar Errors And Enhance Your Writing. Try Now!
www.Grammarly.com

put *verb*

1 to arrange something in a certain spot or position
<you can *put* this box next to the bookshelf>

Synonyms depose, deposit, dispose, emplace, fix, lay, position, put, set, set up, situate, stick

Related Words move, rearrange, reorder, shift; orient; establish, locate, plant, settle; clap, flop, plank, plop, plump, plunk (or plonk), plunk down, slap; ensconce, niche; assemble, collect; carry; berth, park; affix, anchor, back, lodge, wedge, array, lay out, line up, square, stack

The Merriam-Webster dictionary and thesaurus at
<http://www.merriam-webster.com/dictionary/>

No Chinese word grouping

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- but *a 633 nm helium-neon laser*

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- *cleverest son's wife knife super sharp*
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- *lithium niobate probe extraordinary refractive index*
- *the extraordinary refractive index of the lithium niobate probe*
- but *a 633 nm helium-neon laser*
- instead of *a helium-neon laser with a wavelength of 633 nm*

- *the gap, the width of which which was determined to be 1.24 mm, ...*

- *the gap, the width of which which was determined to be 1.24 mm, ...*
- *the gap, 1.24 mm wide, ...*

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- *The probe underwent the following processing procedure.*

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- *We analyzed the luminescent light*
- Note *luminescent light* first is subject, then object
- *The material has been found to be suitable for*
- *The material is suitable for*
- *The probe underwent the following processing procedure.*
- *We processed the probe as follows.*

Split long sentences

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- *too long*: For that reason we aim at computing the relevant energy states (eigenvalues) and the corresponding wave functions (eigenvectors) of three-dimensional (3D) semiconductor pyramidal quantum dots (QDs) for electrons in a non-parabolic conduction band to test and explain the eigen-energy scanning method, at the same time analyzing the coupling effect between array quantum dots.

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- *better*: Therefore we compute the relevant energy levels (eigenvalues) and the corresponding wave functions (eigenvectors) of a regular three-dimensional array of such quantum dots.

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- *better*: Therefore we compute the relevant energy levels (eigenvalues) and the corresponding wave functions (eigenvectors) of a regular three-dimensional array of such quantum dots.
- We explain and test our computational scheme for electrons in a non-parabolic conduction band.

Split long sentences

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- *better*: Therefore we compute the relevant energy levels (eigenvalues) and the corresponding wave functions (eigenvectors) of a regular three-dimensional array of such quantum dots.
- We explain and test our computational scheme for electrons in a non-parabolic conduction band.
- Thereby the coupling between neighboring quantum dots can be analyzed as well.

- *carry out an investigation*

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- *investigate*

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- *substantial reduction of CPU time*

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- *hitherto new, up to now new*

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- effect - affect

- access - asses - assess - assert
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- effect - affect
- insulate - insult

- access - asses - assess - assert
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- insulate - insult
- isolator - isolate - insulate

Mind the difference

- access - asses - assess - assert
- capacity - capacitance - capacitor
- effect - affect
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- isolator - isolate - insulate
- lie (lied, lied) - lie (lay, layn) - lay (laid, laid)

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- surface - interface

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- 2 write the skeleton paper

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- 4 collect figures, either .jpg or .pdf

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- 3 collect references in .bib database
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- 5 use spell checker and thesaurus

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- 8 coarse structure Introduction with TO DOs

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We wish all the best for your forthcoming paper!