

# Writing a scientific paper

25.04.2013

# Outline

- How to search papers
  - Stand on the shoulders of giants
- Tips for the beginner
- Writing a scientific paper
  - What
  - How

# How to search papers

- Web of science
- Google scholar
- Scopus, arXiv...

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## Search

Example: oil spill\* mediterranean

AND

Example: O'Brian C\* OR O'Brian C\*

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AND

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Conference Proceedings Citation Index- Science (CPCI-S) --1994-present



Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1994-present



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Example: oil spill\* mediterranean

AND

Example: O'Brian C\* OR OBrian C\*

AND

Example: Cancer\* OR Journal of Cancer Research and Clinical Oncology

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Example: oil spill\* mediterranean

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Finds papers from organizations for which we have identified name variants.  
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Timespan

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All Years

Latest 5 years

Year to Date

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Finds papers from organizations for which we have identified name variants.  
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☐ Latest 4 weeks

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|                                   |                             |
|-----------------------------------|-----------------------------|
| TS= Topic                         | SG= Suborganization         |
| TI= Title                         | SA= Street Address          |
| AU= Author [Index]                | CI= City                    |
| RID= ResearcherID                 | PS= Province/State          |
| GP= Group Author [Index]          | CU= Country                 |
| ED= Editor                        | ZP= Zip/Postal Code         |
| SO= Publication Name [Index]      | FO= Funding Agency          |
| DOI= DOI                          | FG= Grant Number            |
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| CF= Conference                    | SU= Research Area           |
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| OO= Organization                  | UT= Accession Number        |

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Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH.  
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**Authors**  
**Group Authors**  
**Editors**  
**Source Titles**  
**Book Series Titles**  
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Author(s): Lu, Mingxia; Ohba, Tomonori; Kaneko, Katsumi; et al.  
Source: MATERIALS Volume: 6 Issue: 2 Pages: 535-543 DOI: 10.3390/ma6020535 Published: FEB 2013  
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☐ 2. Title: **A high poly(ethylene glycol) density on graphene nanomaterials reduces the detachment of lipid-poly(ethylene glycol) and macrophage uptake**  
Author(s): Yang, Mei; Wada, Momoyo; Zhang, Minfang; et al.  
Source: ACTA BIOMATERIALIA Volume: 9 Issue: 1 Pages: 4744-4753 DOI: 10.1016/j.actbio.2012.09.012 Published: JAN 2013  
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☐ 3. Title: **Selective Extraction of Semiconducting Single-Wall Carbon Nanotubes by Poly(9,9-dioctylfluorene-alt-pyridine) for 1.5 mu m Emission**  
Author(s): Tange, Masayoshi; Okazaki, Toshiya; Iijima, Sumio  
Source: ACS APPLIED MATERIALS & INTERFACES Volume: 4 Issue: 12 Pages: 6458-6462 DOI: 10.1021/am302327j Published: DEC 2012  
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☐ 4. Title: **Weak Response of Metallic Single-Walled Carbon Nanotubes to C-60 Encapsulation Studied by Resonance Raman Spectroscopy**  
Author(s): Joung, Soon-Kil; Okazaki, Toshiya; Okada, Susumu; et al.  
Source: JOURNAL OF PHYSICAL CHEMISTRY C Volume: 116 Issue: 44 Pages: 23844-23850 DOI: 10.1021/jp309379r Published: NOV 8 2012  
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☐ 5. Title: **Cooperative Adsorption of Supercritical CH4 in Single-Walled Carbon Nanohorns for Compensation of Nanopore Potential**  
Author(s): Ohba, Tomonori; Kaneko, Katsumi; Yudasaka, Masako; et al.  
Source: JOURNAL OF PHYSICAL CHEMISTRY C Volume: 116 Issue: 41 Pages: 21870-21873 DOI: 10.1021/jp307133m Published: OCT 18 2012  
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☐ 6. Title: **Atomic imaging and spectroscopy of low-dimensional materials with interrupted periodicities**  
Author(s): Suenaga, Kazu; Akiyama-Hasegawa, Kotone; Niimi, Yoshiko; et al.  
Source: JOURNAL OF ELECTRON MICROSCOPY Volume: 61 Issue: 5 Pages: 285-291 DOI: 10.1093/jmicro/dfs054 Published: OCT 2012  
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Times Cited -- lowest to highest  
Relevance  
First Author -- A to Z  
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### Research Areas

Refine

### Authors

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- ☐ IJIMA S (397)
- ☐ YUDASAKA M (185)
- ☐ SUENAGA K (68)
- ☐ BANDOW S (64)
- ☐ HIRAHARA K (39)

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### Conference Titles

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- ☐ MEIJO UNIVERSITY (243)
- ☐ JAPAN SCIENCE AND TECHNOLOGY AGENCY JST (209)
- ☐ NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY AIST (141)
- ☐ NEC CORP LTD (124)
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- Title: **Small-Sized Carbon Nanohorns Enabling Cellular Uptake Control**  
Author(s): Zhang, Minfang; Zhou, Xin; Iijima, Sumio; et al.  
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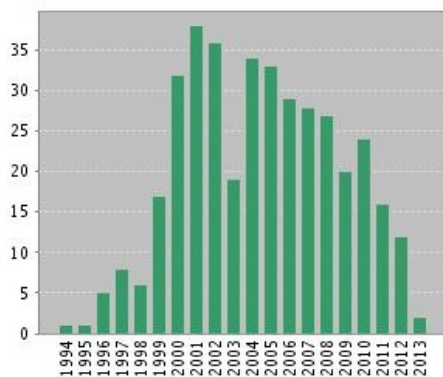
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**Citation Report** Topic=(carbon nanotube\*) AND Author=(Iijima S\*)  
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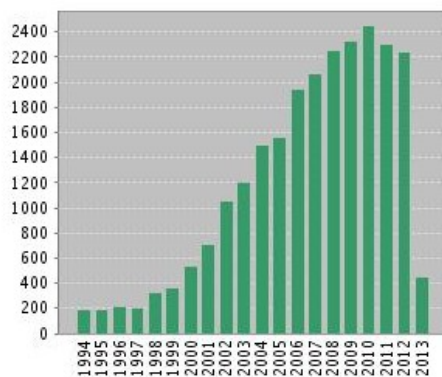
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- ☐ 1. Title: **SINGLE-SHELL CARBON NANOTUBES OF 1-NM DIAMETER**  
Author(s): IIJIMA, S; ICHIHASHI, T  
Source: NATURE Volume: 363 Issue: 6430 Pages: 603-605 DOI: 10.1038/363603a0 Published: JUN 17 1993
- ☐ 2. Title: **Water-assisted highly efficient synthesis of impurity-free single-walled carbon nanotubes**  
Author(s): Hata, K; Futaba, DN; Mizuno, K; et al.  
Source: SCIENCE Volume: 306 Issue: 5700 Pages: 1362-1364 DOI: 10.1126/science.1104962 Published: NOV 19 2004
- ☐ 3. Title: **CAPILLARITY-INDUCED FILLING OF CARBON NANOTUBES**  
Author(s): AJAYAN, PM; IIJIMA, S  
Source: NATURE Volume: 361 Issue: 6410 Pages: 333-334 DOI: 10.1038/361333a0 Published: JAN 28 1993

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| 2326 | 2447 | 2304 | 2246 | 455  | 24220 | 1100.91                    |
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**Results** Topic=(carbon nanotube\*) AND Author=(Iijima S\*)

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#### Publication Years

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**Author(s):** Lu, MX (Lu, Mingxia)<sup>[1]</sup>; Ohba, T (Ohba, Tomonori)<sup>[1]</sup>; Kaneko, K (Kaneko, Katsumi)<sup>[2]</sup>; Hata, K (Hata, Kenji)<sup>[3]</sup>; Yumura, M (Yumura, Motoo)<sup>[3]</sup>; Iijima, S (Iijima, Sumio)<sup>[3,4]</sup>; Komatsu, H (Komatsu, Hiroto)<sup>[5]</sup>; Sakuma, A (Sakuma, Akira)<sup>[5]</sup>; Kanoh, H (Kanoh, Hirofumi)<sup>[1]</sup>

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- Author guideline
- Word or Latex (Templates)
- Endnote
- Reference database (JabRef)

## ➤ Writing (Just like telling a story, but...)

- Using a scientific language
- Write accurately, clearly, succinctly
- Beautiful figures
- Revising your paper as much as possible
- Look at other papers that have been published in your field

# Writing a scientific paper

- **Title**
- **Authors (address, email...)**
- **Abstract (Keywords)**
- **Introduction**
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- **Results and discussion**
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- The title usually describes the subject matter of the article: " Effect of Smoking on Academic Performance"
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## Formation and Healing of Vacancies in Graphene Chemical Vapor Deposition (CVD) Growth

Lu Wang,<sup>‡</sup> Xiuyun Zhang,<sup>†</sup> Helen L.W. Chan,<sup>‡</sup> Feng Yan,<sup>\*,‡</sup> and Feng Ding<sup>\*,†</sup>

<sup>†</sup>Institute of Textile and Clothing and <sup>‡</sup>Department of Applied Physics, Hong Kong Polytechnic University, Kowloon, Hong Kong, People's Republic of China

# Abstract

(1) What the objectives of the study were;

(2) How the study was done;

(3) What results were obtained;

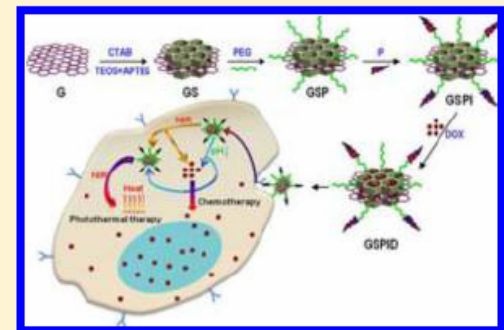
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# Abstract

## ➤ Tips

- The abstract should be a little less technical than the article itself.
- Your abstract should be one paragraph, of 100-250 words.
- Don't use abbreviations or citations in the abstract.

**ABSTRACT:** Current therapy of malignant glioma in clinic is unsatisfactory with poor patient compliance due to low therapeutic efficiency and strong systemic side effects. Herein, we combined chemo-photothermal targeted therapy of glioma within one novel multifunctional drug delivery system. A targeting peptide (IP)-modified mesoporous silica-coated graphene nanosheet (GSPI) was successfully synthesized and characterized, and first introduced to the drug delivery field. A doxorubicin (DOX)-loaded GSPI-based system (GSPID) showed heat-stimulative, pH-responsive, and sustained release properties. Cytotoxicity experiments demonstrated that combined therapy mediated the highest rate of death of glioma cells compared to that of single chemotherapy or photothermal therapy. Furthermore, the IP modification could significantly enhance the accumulation of GSPID within glioma cells. These findings provided an excellent drug delivery system for combined therapy of glioma due to the advanced chemo-photothermal synergistic targeted therapy and good drug release properties of GSPID, which could effectively avoid frequent and invasive dosing and improve patient compliance.



# Introduction

- Why is this study of scientific interest?
- What is your objective?

# Introduction

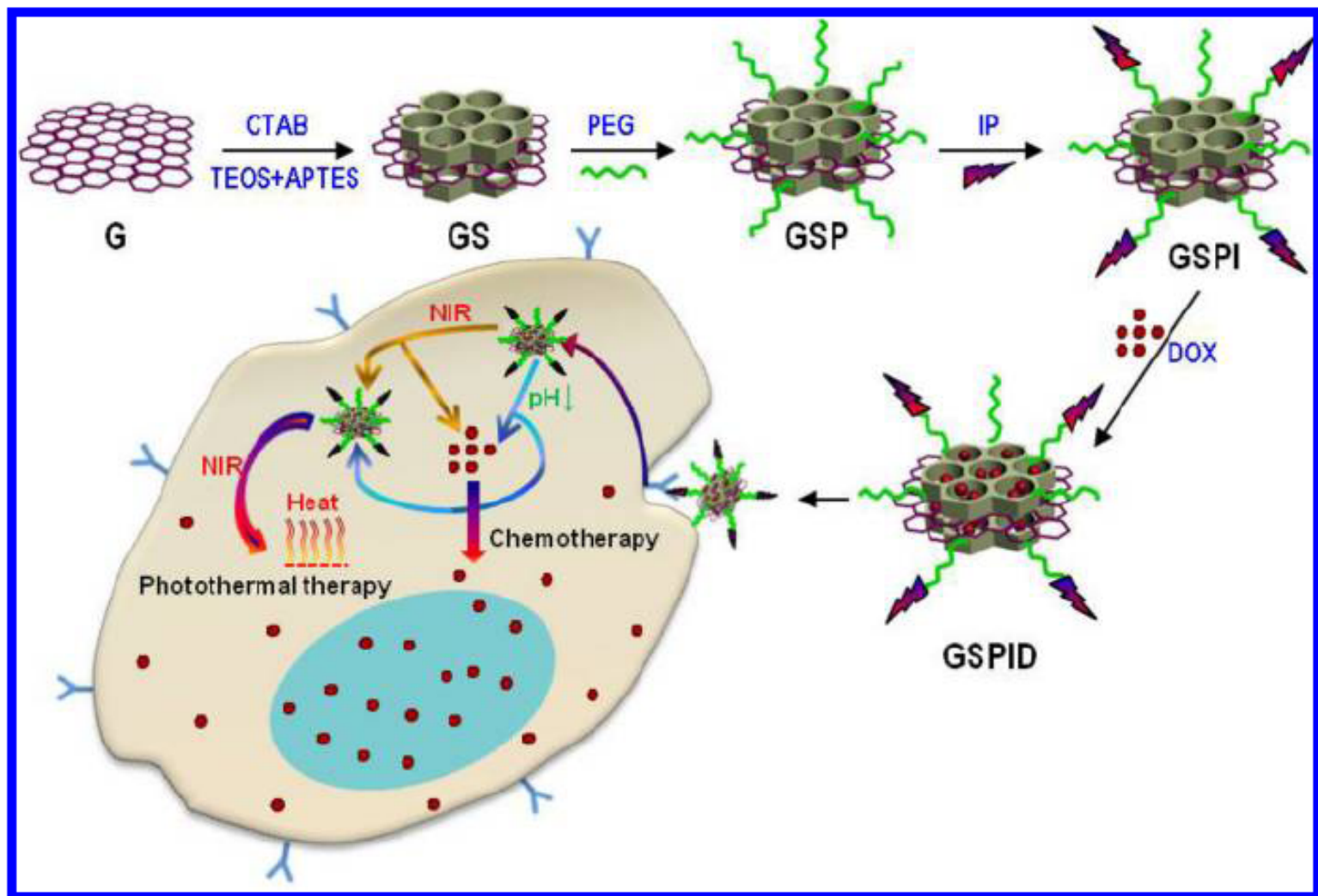
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- Move from general information to specific information.
- Emphasize your specific contribution to the topic.
- The last sentences should be a statement of objectives and a statement of hypotheses. This will be a good transition to the next section (Method).
- Make sure you give a full citation.

# Methods

- This section provides all the methodological details necessary for another scientist to duplicate your work.
- Tips
  - Do not put results in this section.
  - Include a diagram, table or flowchart to explain the methods.
  - Provide a brief description of characterization

# Methods





# Results and discussion

- Present the results you've gotten.
- What the results mean or why they differ from what other workers have found.

# Results and discussion

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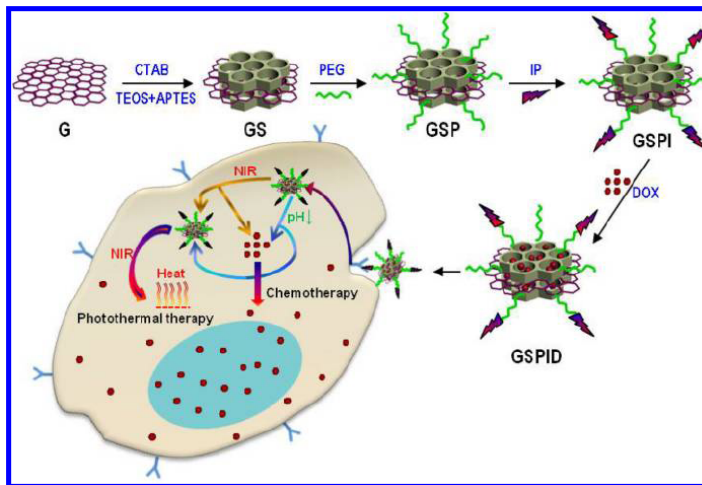
- Use graphs and tables
  - Number tables and figures separately beginning with 1 (i.e. Table 1, Table 2, Figure 1, etc.).
  - You must refer in the text to each figure or table you include in your paper.
- Interpret your results in light of other published results.
- Suggest future directions for research, new methods, explanations for deviations from previously published results, etc.
- End with a one-sentence summary of your conclusion, emphasizing why it is relevant.

# Tables and Graphs

➤ Check the author guideline

- Format (.tiff, .eps, .png, ...)
- Black and white, or in Color (CMYK or RGB)
- Size (single column, double column?)
- Dpi

➤ Make the figures more beautiful and attractive



# Conclusion and Acknowledgements

- Conclusion / Abstract / The last sentences of introduction
- Acknowledgements (Optional)
  - **Funds, fellowship**
  - **Thank those who either helped with the experiments**
  - **Or made other important contributions, such as discussing the protocol, commenting on the manuscript**

# References

- In the text, cite the literature in the appropriate places
- In the References section list citations in order (appear, alphabetical).
- Tips (Using the template)
  - The format (authors, title, journal name, year, volume, issue, pages)
  - Latex (JabRef), Word (Endnote)

# Supplementary material

- Supporting Information
- Material that is not needed for reading the paper but which should be available to document experiments or calculations for future researchers
- Tables, figures, Videos/movies, ...
- Appendices can appear in the Supporting Information

# The order for Writing

- 8** ➤ **Title**
- 8** ➤ **Authors**
- 7** ➤ **Abstract**
- 5** ➤ **Introduction**
- 1** ➤ **Methods**
- 2** ➤ **Results and discussion**
- 2** ➤ **Tables and Graphs**
- 3** ➤ **Conclusion**
- 4** ➤ **Acknowledgements**
- 6** ➤ **References**
- 4** ➤ **Supplementary material**
- 4** ➤ **Appendix ...**

# After the writing

- Using a spellchecker
- Don't Forget to revise the paper by yourself and other co-authors, or other people who are familiar with your research field!



# References to this lecture

- (1) Notice to Authors of JACS Manuscripts**
- (2) <http://www.columbia.edu/cu/biology/ug/research/paper.html>**
- (3) <http://classweb.gmu.edu/biologyresources/writingguide/Abstract.htm>**
- (4) Y. Wang, et al. J. Am. Chem. Soc., 2013, 135 (12), 4799–4804**

**Thank you for your attention!**