

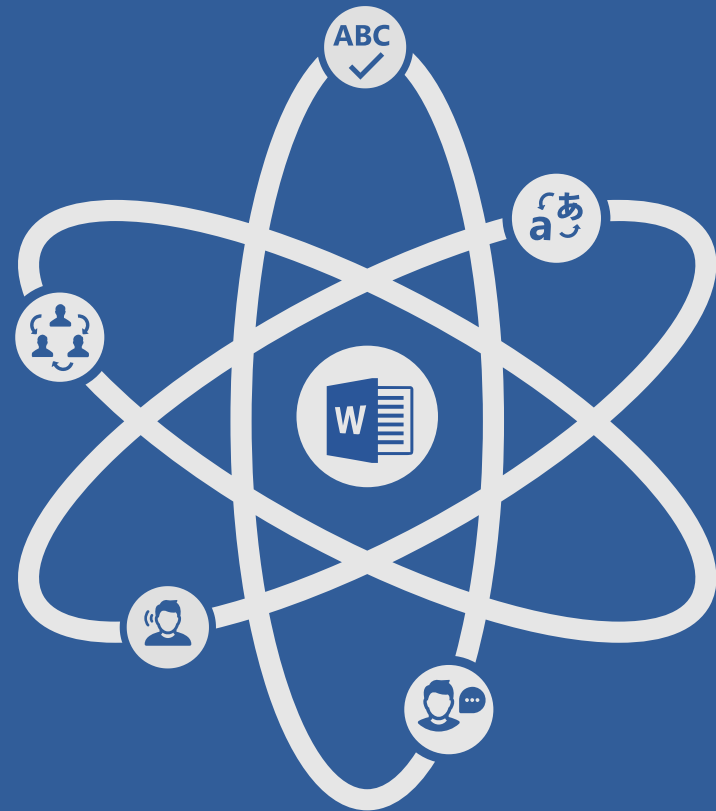


Type mathematical formula  
and insert citations gracefully  
in

# Office Word

*Yang Tao*

*2018/4/8*



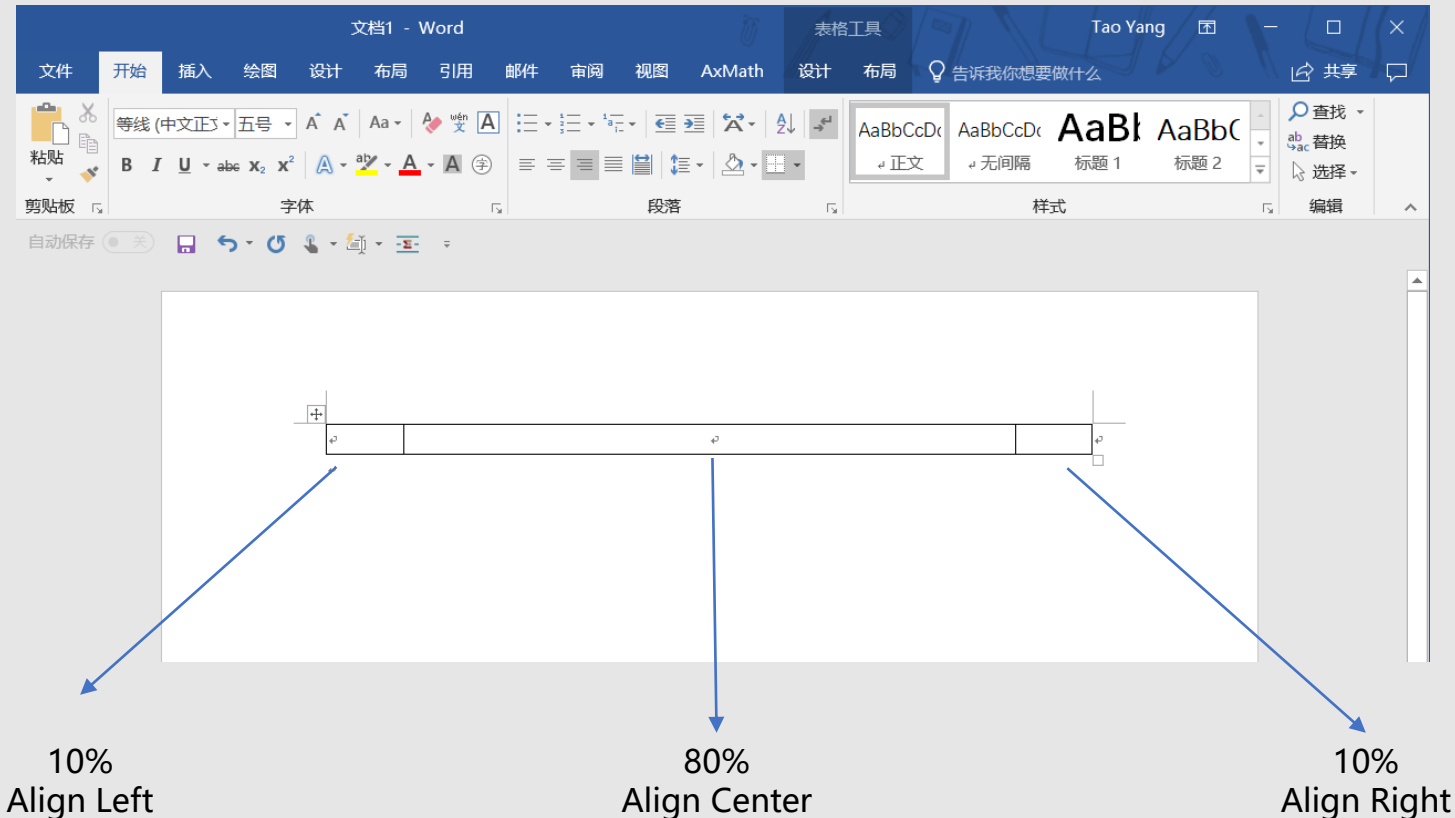
- 1 Use default mathematical editor in Word**
- 2 Axmath plugin for word**
- 3 Mendeley plugin for word**

## 1

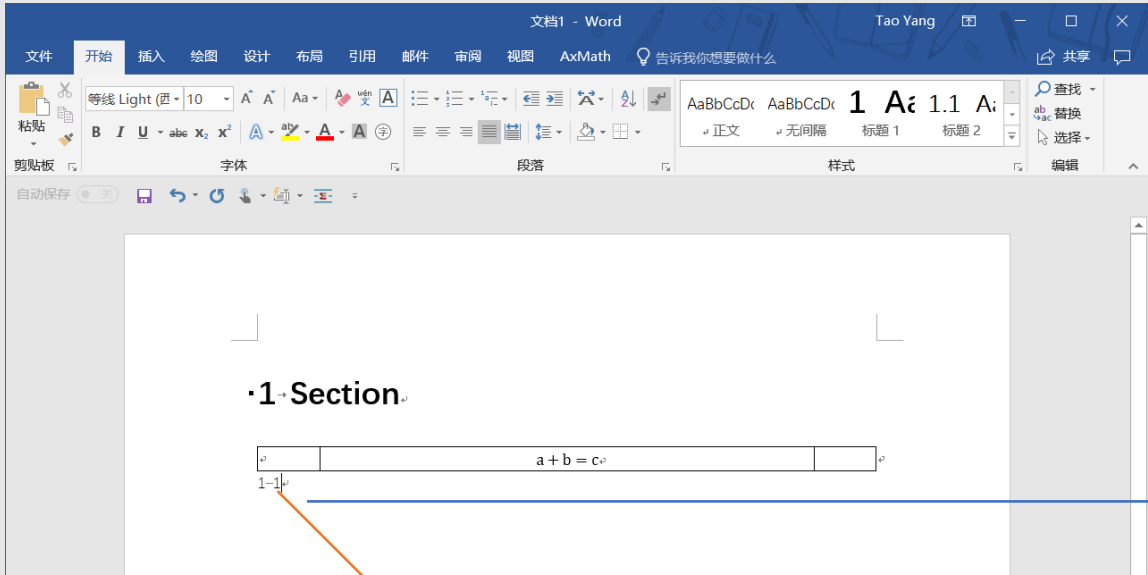
# Use default mathematical editor in Word

Type formula by mathematical editor in Word is easy ,but how to number every formulas automatically without plugin?

**Step 1: create a 1Row : 3 Column table and set attribute of table**



Step 2: type a templated formula and insert caption



题注编号 ? X

格式(E): 1, 2, 3, ...

☒ 包含章节号(C)

章节起始样式(P): 标题 1

使用分隔符(E): - (连字符)

示例: 图表 II-1, 表格 1-A

确定 取消

题注 ? X

题注(C): 1-1

选项

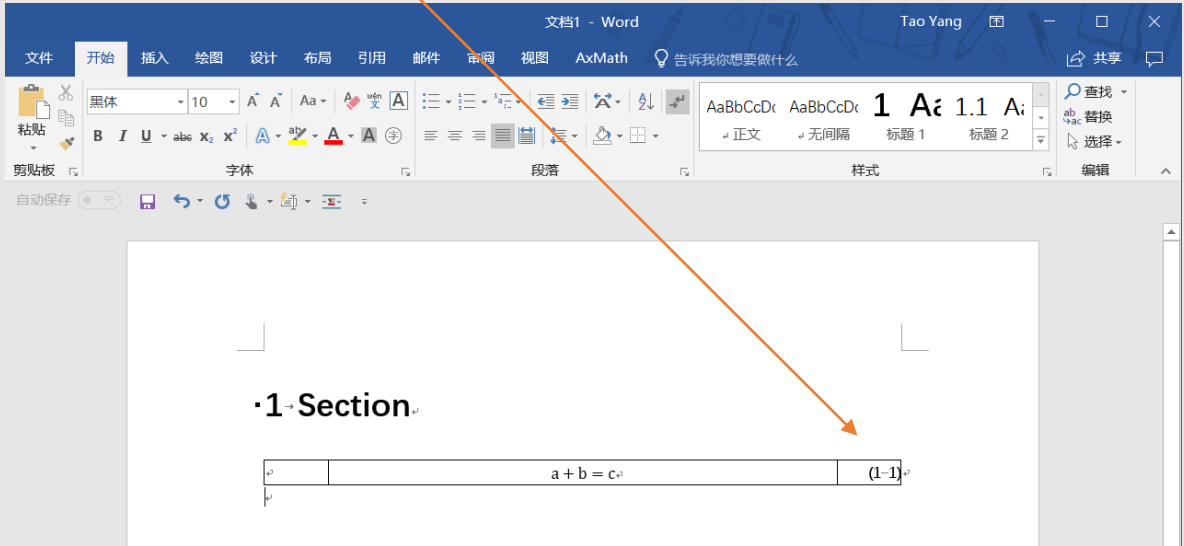
标签(L): equation

位置(P): 所选项目下方

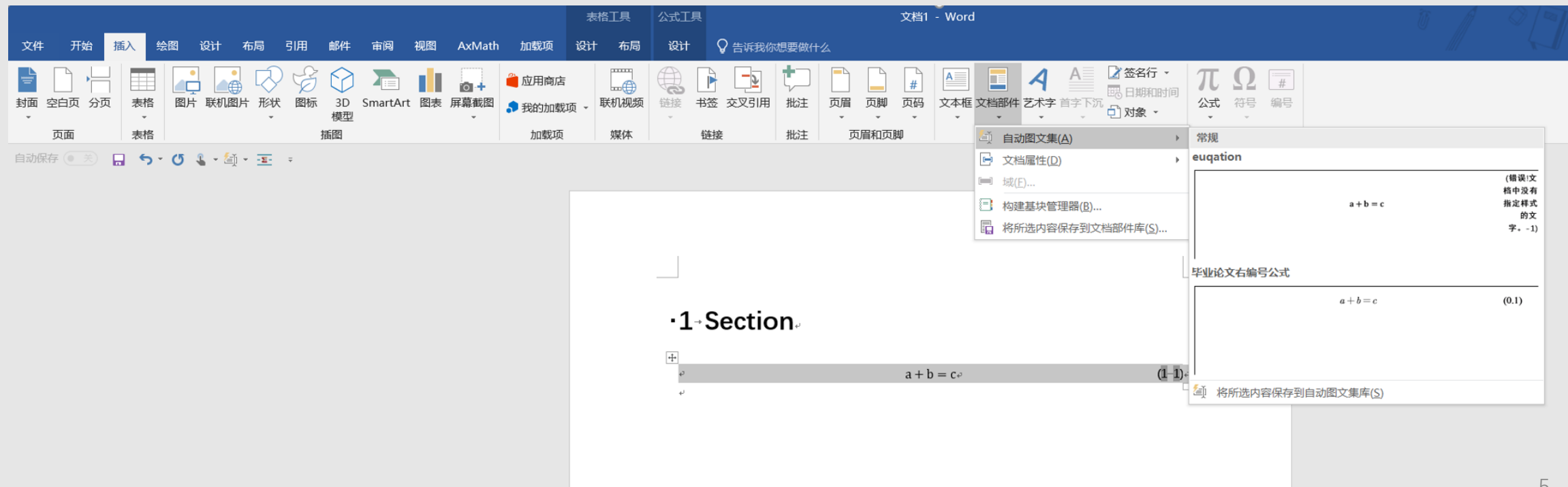
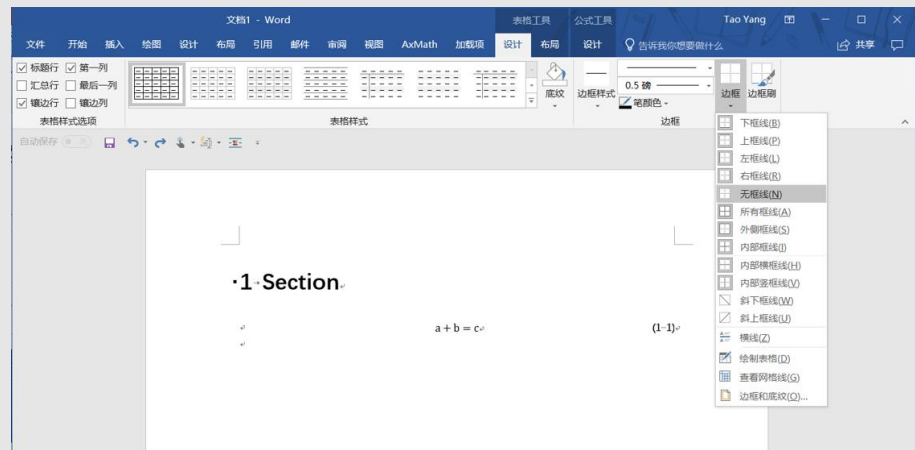
☒ 从题注中排除标签(E)

新建标签(N)... 删除标签(D) 编号(U)...

自动插入题注(A)... 确定 关闭



Step 3: remove frame line and **save table to AutoText**



Now , Enjoy it!

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·1· Section

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(1-1)

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(1-3)

(2-1)

(2-2)

第1页, 共1页14个字

16:562018/4/7

## AxMath 功能与特色

## 编辑与排版

- 图形化的排版布局设定，排版更方便；
- 支持点取输入、快捷键、脚本输入，输入更快；
- 支持AMS/LaTeX数学符号标准；
- 支持自定义数学符号；
- 支持快速矩阵模板、自动填充及分块；
- 支持字符串查找与替换；
- 支持笔记（多帧剪贴板）、磁贴与公式库；
- 支持多底色符号面板，支持符号面板重映射；
- 支持单色和彩色，可自定义颜色偏好；
- 编辑辅助功能，可自动识别预设字段并校正其文字格式；

## 科学计算功能

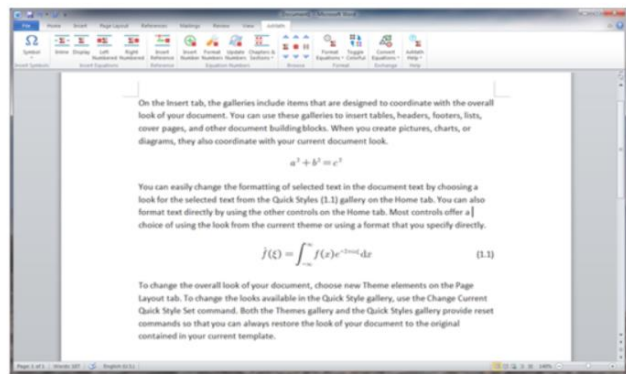
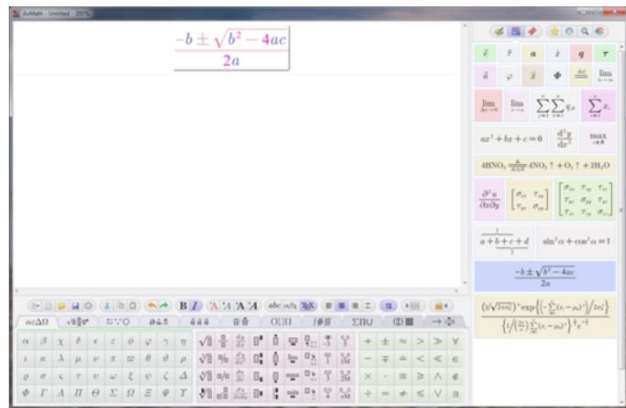
- 基于所见公式计算；
- 支持变量定义和常数定义；
- 计算过程保存后可作为可计算文档下次调用；
- 支持加减乘除、开根、幂、三角函数及常见数学函数；

## 输出与发布

- 支持对象嵌入，可作为MS WORD等文字软件的插件；
- 可输出矢量图片；
- 可输出为BMP、JPG、PNG、GIF等常见图片格式；

## 运行环境

- Win10, Win 8, Win 7, Vista;
- OLE嵌入: MS Office, WPS;
- 插件: WPS 2016, MS Office 2010-2016;



AxMath



MathType


<http://www.axmath.icoc.cc/>

## How to use AxMath plugin:



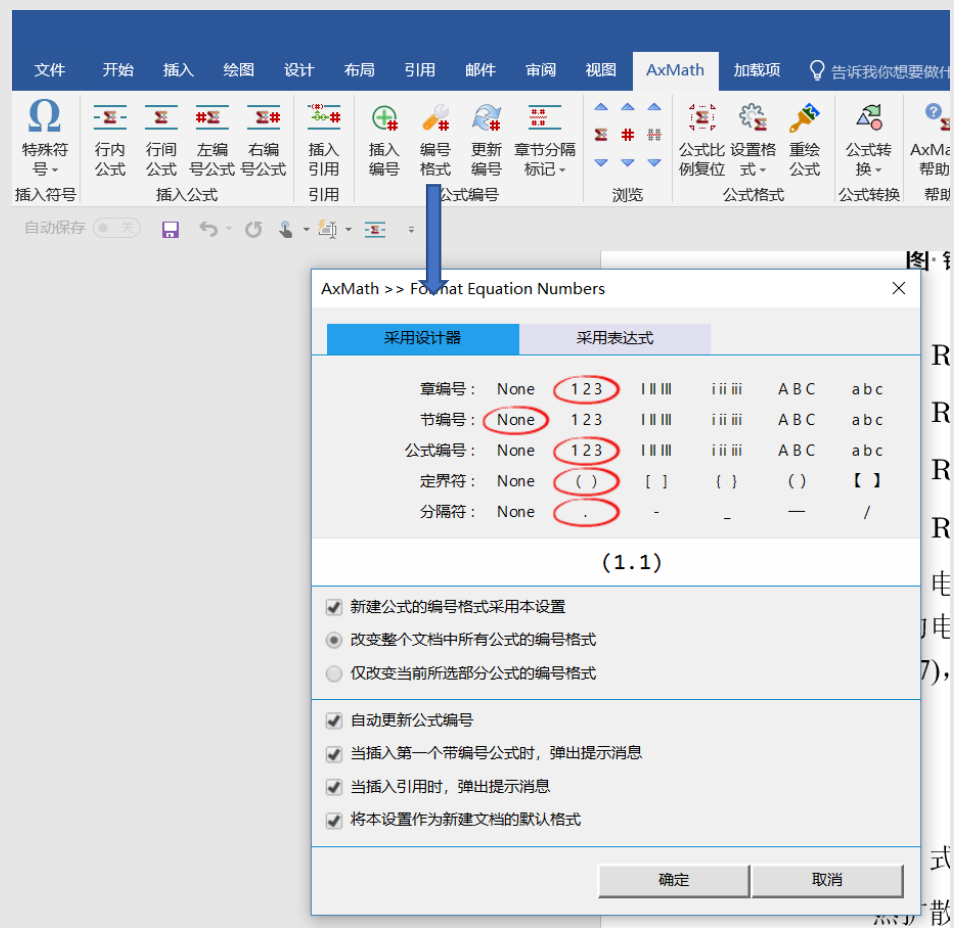
电子或空穴被俘获和发射速率主要取决于中间能态的截面 $\sigma_{e,h}$ 以及中间态的电子浓度 $n_{dl}$ 和空穴浓度 $p_{dl}$ 。平衡状态下， $R_u = R_d$ ，根据式(2.16)和式(2.17)，发射率 $R_u^e$ 和 $R_h^d$ 可以量化为<sup>ρ</sup>

$$\begin{aligned} R^{e,h} &= (n,p)_{dl} \cdot c_{e,h} \cdot N_{C,V} \cdot e^{\pm \frac{E_{dl} - E_{C,V}}{k_B T}} \quad \rightarrow \quad (2.24)^{\rho} \\ &= (n,p)_{dl} \cdot \sigma_{e,h} \cdot v_{th;e,h} \cdot N_{C,V} \cdot e^{\pm \frac{E_{a;e,h}}{k_B T}} \end{aligned}$$

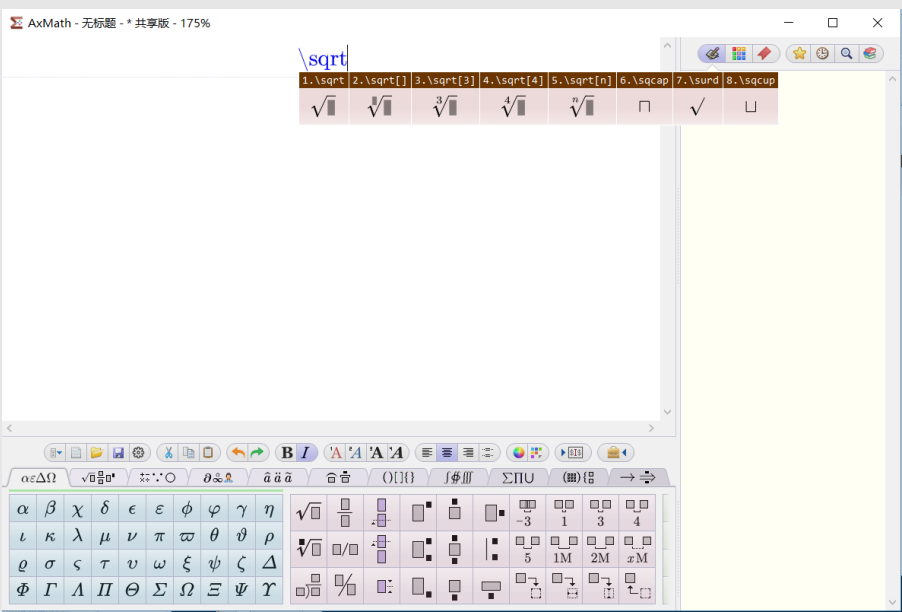
式(2.24)中活化能 $E_{a;e,h} \propto E_{dl} - E_{C,V}$ ， $c_{e,h}$ 为俘获系数， $v_{th;e,h}$ 为载流子的热扩散速率。<sup>ρ</sup>



# Set formula number including the section number:



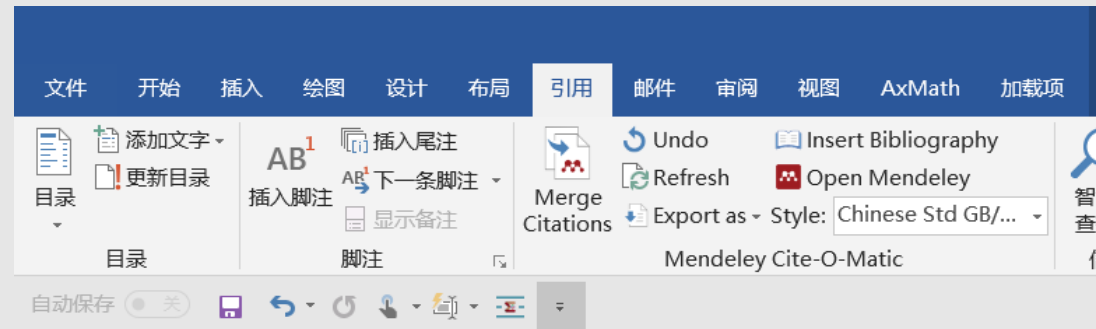
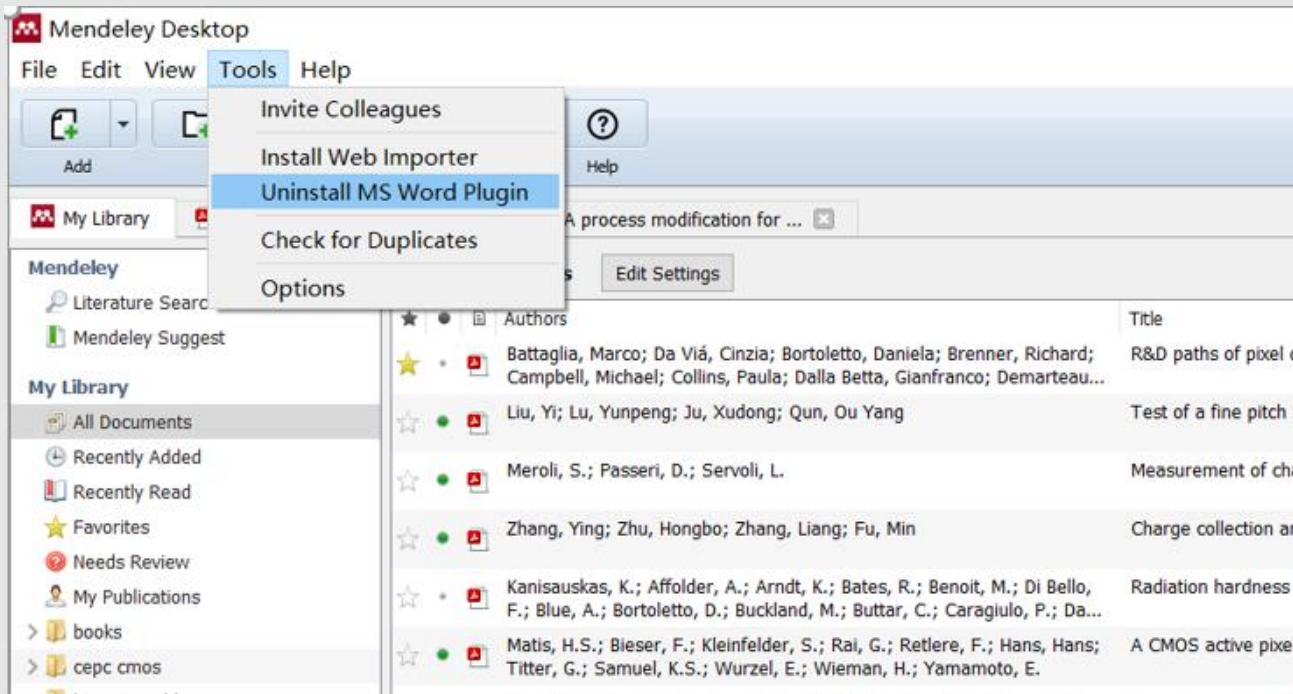
# Support for LaTeX language:



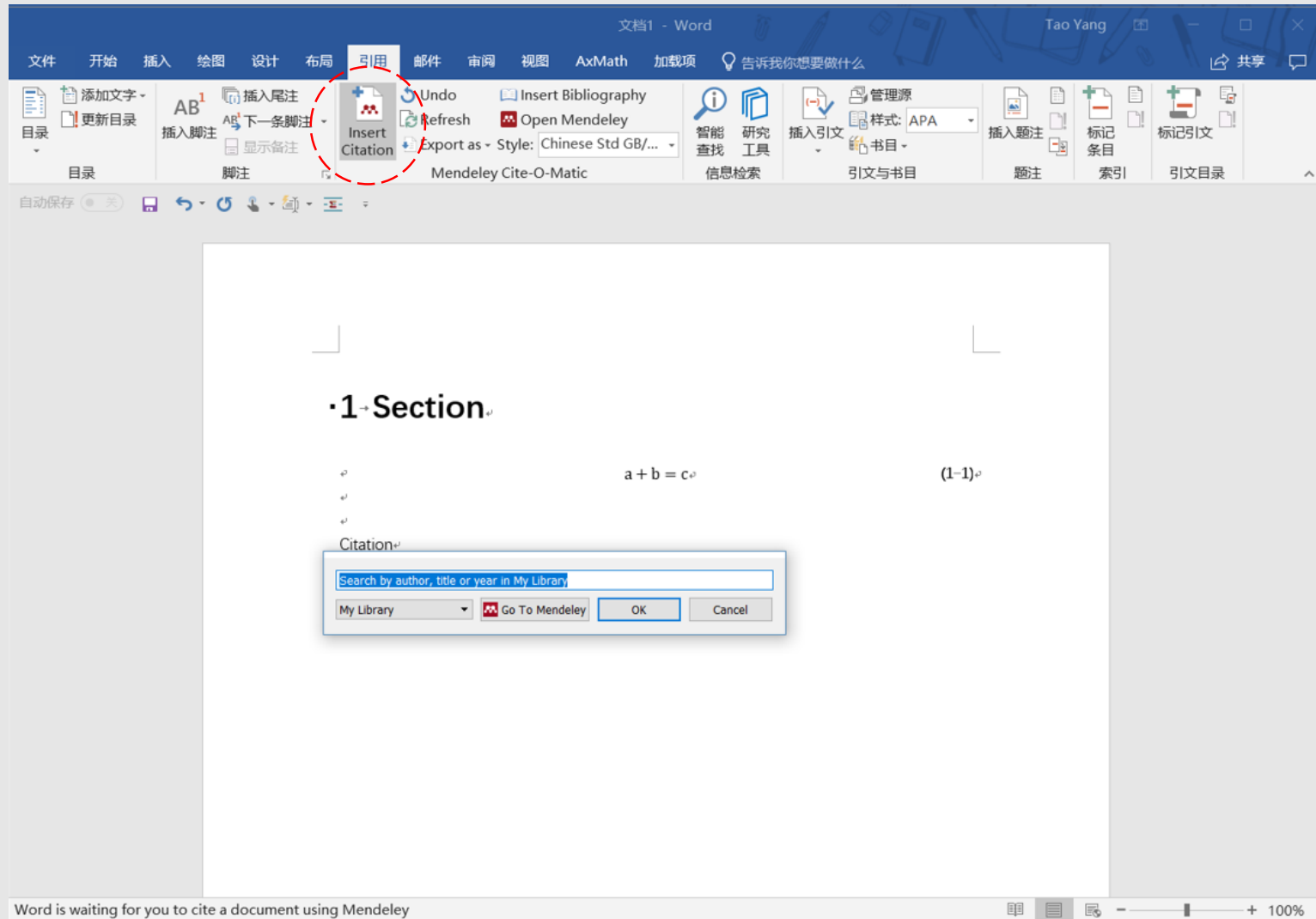
## 3

# Mendeley plugin for word

Install :



## How to use Mendeley plugin:



**Press the 'Go To Mendeley' button to open Mendeley Desktop and allow you to browse to the specific reference you require using that interface.**

Mendeley Desktop

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- Create Folder...

Groups

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- Affolder, A.
- Affolder, Anthony
- Aglieri Rinella, G.
- Allport, Phil
- Arndt, K.
- Bagliesi, Giuseppe
- Ban, Yong
- Bates, R.
- Battaglia, M.
- Battaglia, Marco
- Benoit, M.
- Berst, J D
- Biagetti, D.
- Bieser, F.
- Bisello, D.
- Blue, A.
- Bortoletto, D.
- Bortoletto, Daniela

All Documents Edit Settings

★	Authors	Title	Year	Published In	Added
★	Battaglia, Marco; Da Viá, Cinzia; Bortoletto, Daniela; Brenner, Ric...	R&D paths of pixel detectors for vertex tracking and radiation imaging	2013	Nuclear Instruments and Methods in Ph...	4月 3
☆	Liu, Yi; Lu, Yunpeng; Ju, Xudong; Qun, Ou Yang	Test of a fine pitch SOI pixel detector with laser beam	2016	Chinese Physics C	4月 3
☆	Meroli, S.; Passeri, D.; Servoli, L.	Measurement of charge collection efficiency profiles of CMOS active pixel sensors	2012	Journal of Instrumentation	4月 3
☆	Zhang, Ying; Zhu, Hongbo; Zhang, Liang; Fu, Min	Charge collection and non-ionizing radiation tolerance of CMOS pixel sensors using a 0.18 $\mu\text{m}$ CMOS process	2016	Nuclear Instruments and Methods in Ph...	4月 3
☆	Kanisauskas, K.; Affolder, A.; Arndt, K.; Bates, R.; Benoit, M.; ...	Radiation hardness studies of AMS HV-CMOS 350nm prototype chip HVStripV1	2017	Journal of Instrumentation	4月 3 4月 3
☆	Matis, H.S.; Bieser, F.; Kleinfelder, S.; Rai, G.; Retleire, ...	A CMOS active pixel sensor for charged particle detection	2002	2002 IEEE Nuclear Science Symposiu...	4月 3
☆	Meroli, S.; Biagetti, D.; Passeri, D.; Placidi, P.; Servoli, L.; Tucc...	A grazing angle technique to measure the charge collection efficiency for CMOS active pixel sensors	2011	Nuclear Instruments and Methods in Ph...	4月 3
☆	Pernegger, Heinz	Development of radiation hard CMOS active pixel sensors for HL-LHC	2016	Nuclear Instruments and Methods in Ph...	4月 3
☆		Monolithic CMOS Pixel Sensors for High Resolution Outlook - Device simulation - Beam test results Monolithic Pixel CMOS Sen...	2003		4月 3
☆	Affolder, Anthony; Allport, Phil; Casse, Gianluigi	Collected charge of planar silicon detectors after pion and proton irradiations up to $2.2 \times 10^{16} \text{neqcm}^{-2}$	2010	Nuclear Instruments and Methods in Ph...	4月 3
☆	Bulgheroni, a; Klimovich, T; Roloff, P; Zarnecki, a F	EUTelescope: tracking software	2007	EUDET Memos	4月 3
☆	Holbert, K.E.	Radiation effects and damage	2008		4月 3
☆	Sguazzoni, Giacomo; Bagliesi, Giuseppe; Gennai, Simone	CMS Note	2002	Event (London)	4月 3
☆	Li, Gang; Ruan, Manqi; Shi, Xin; Lou, Xinchou; Yao, Weimin; Jyot...	Simulation study of the Higgs boson decaying to an invisible channel at the CEPC	2018		4月 3
☆	Capture, Electron	IRON 55			4月 3
☆		TCAD_Course_Santander_24Jun2015			4月 3
☆	Chen, Zhen Xing; Yang, Ying; Ruan, Man Qi; Wang, Da Yong; ...	Cross section and Higgs mass measurement with Higgsstrahlung at the CEPC	2017	Chinese Physics C	4月 3
☆	Pernegger, H.; Bates, R.; Ruttar	First tests of a novel radiation hard CMOS sensor process for	2017	Journal of	4月 3

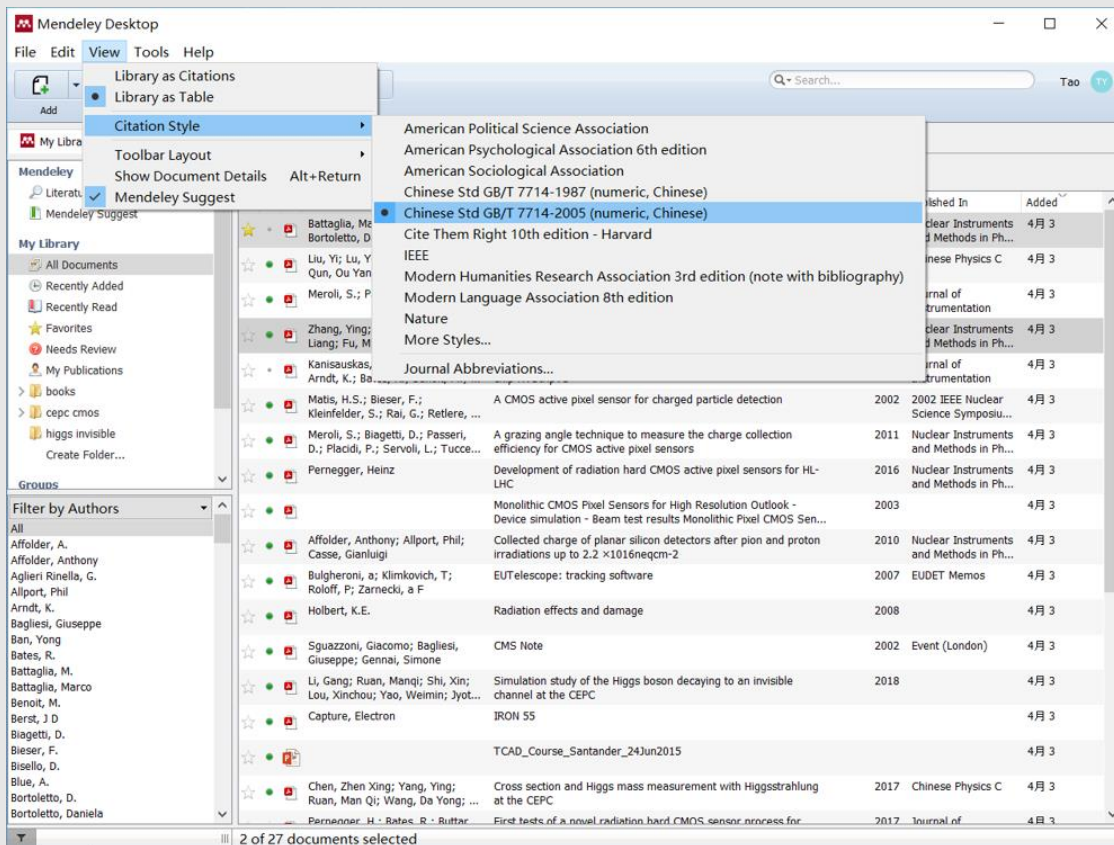
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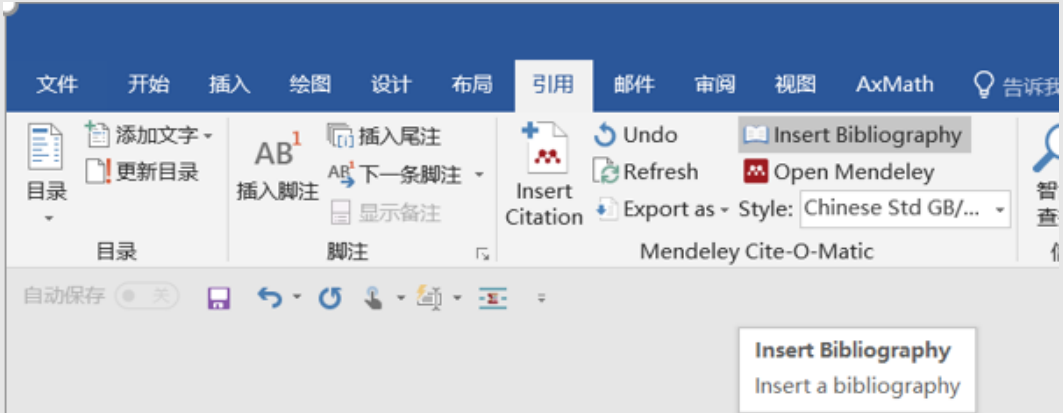
## • 1 → Section ↵

↵  
↵  
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Citation<sup>1,2</sup> ↵  
 $a + b = c$  ↵  
(1-1) ↵

The appearance of your citations is controlled by the Citation Style you currently have selected. They can be modified at any time using the 'Choose Citation Style' option on the plugin toolbar.



For Chinese undergraduate thesis, you need to choose GB/T 7714 style



Once you have inserted all the citations you require, you can use the Mendeley plugin to automatically create a bibliography of all the materials you have cited.

## 1 Section

$$a + b = c \quad (1-1)$$

Citation<sup>[1,2]</sup>

### Reference :

- [1] → ZHANG·Y, ZHU·H, ZHANG·L, et al. Charge collection and non-ionizing radiation tolerance of CMOS pixel sensors using a 0.18 $\mu$ m CMOS process[J]. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Elsevier, 2016, 831: 99–104.
- [2] → BATTAGLIA·M, DA·VIA·C, BORTOLETTO·D, et al. R&D paths of pixel detectors for vertex tracking and radiation imaging[J]. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Elsevier, 2013, 716(September 2012): 29–45.

**Most of details could not make clear by slides. If you have other questions, ask me afterwards.**

**Thanks!**