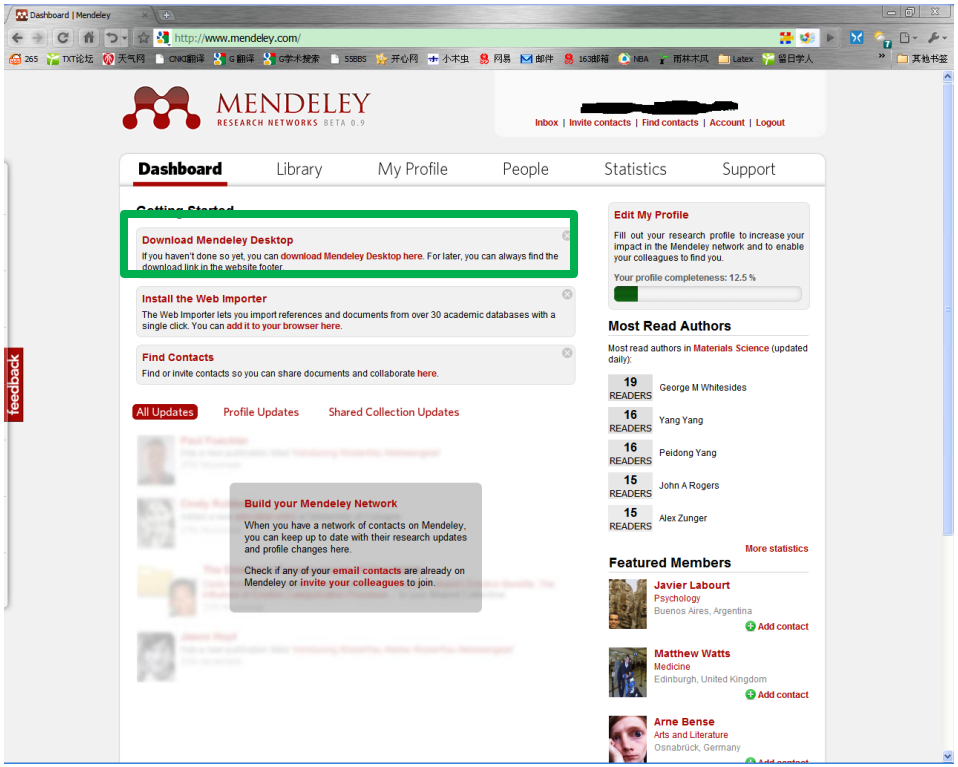
开源文献管理软件Mendeley功能介绍

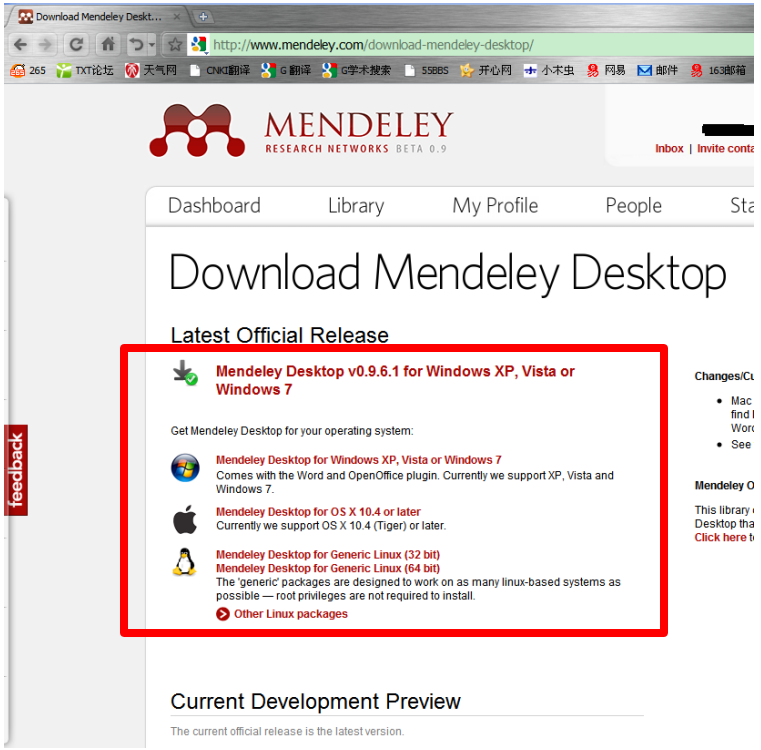
写在前面的话

- Mendeley是一款开源免费软件。本人一直支持软件的开源，写这个软件介绍并无其他目的，完全是个人喜好。同时也希望我的经验能给其他人带来实质性的帮助，节约每个人的时间。
- 这个介绍也花了我不少时间，另外写的过程也是摸索的过程，我也学了不少东西。如果对您有帮助的话，我非常欣慰，也请介绍给其他人。
- 转载请注明出处，作者，感谢您对我的劳动的尊重。日后会有更详细介绍。

目录

一、下载





- 首先注册一个账户，这个账户很有用，它用于网络同步你本地的数据库。也就是你不用带着你的数据库，走到哪里直接同步就行。
- 然后就可以下载Mendeley了
- 点击绿框部分，进入右面的图，选择自己系统的对应版本。

二、安装

- 这个我就不讲了，一般都会的
- Mac或Linux系统可以参照网站介绍安装，很详细

Mendeley文献管理软件主要功能

1.自动导入本地文献，不用逐字输入（功能超强）

a.监视文件夹

b.文献各方面信息的导入，甚至包括文献后面的引用文献

c.文献信息的完善，几乎不用手动输入，可以一键google scholar自动完成几乎所有信息，包括DOI，url

2.添加右键copy Latex Citation，自动保存数据库为BibTEX格式，非常方便使用LATEX编写文章的人

3.可以支持在Mendeley窗口查阅文献，做标记，做笔记。直接保存在窗口右侧，点击就可查看，非常方便。有MS word，OpenOffice，MS word for Mac OS插件，方便文献引用和插入

4.成千上万的citation style，包括中国的众多杂志

5.数据库网络同步，很好的保护数据库

6.数据库分组模式，可以添加，删除，重命名各个分组

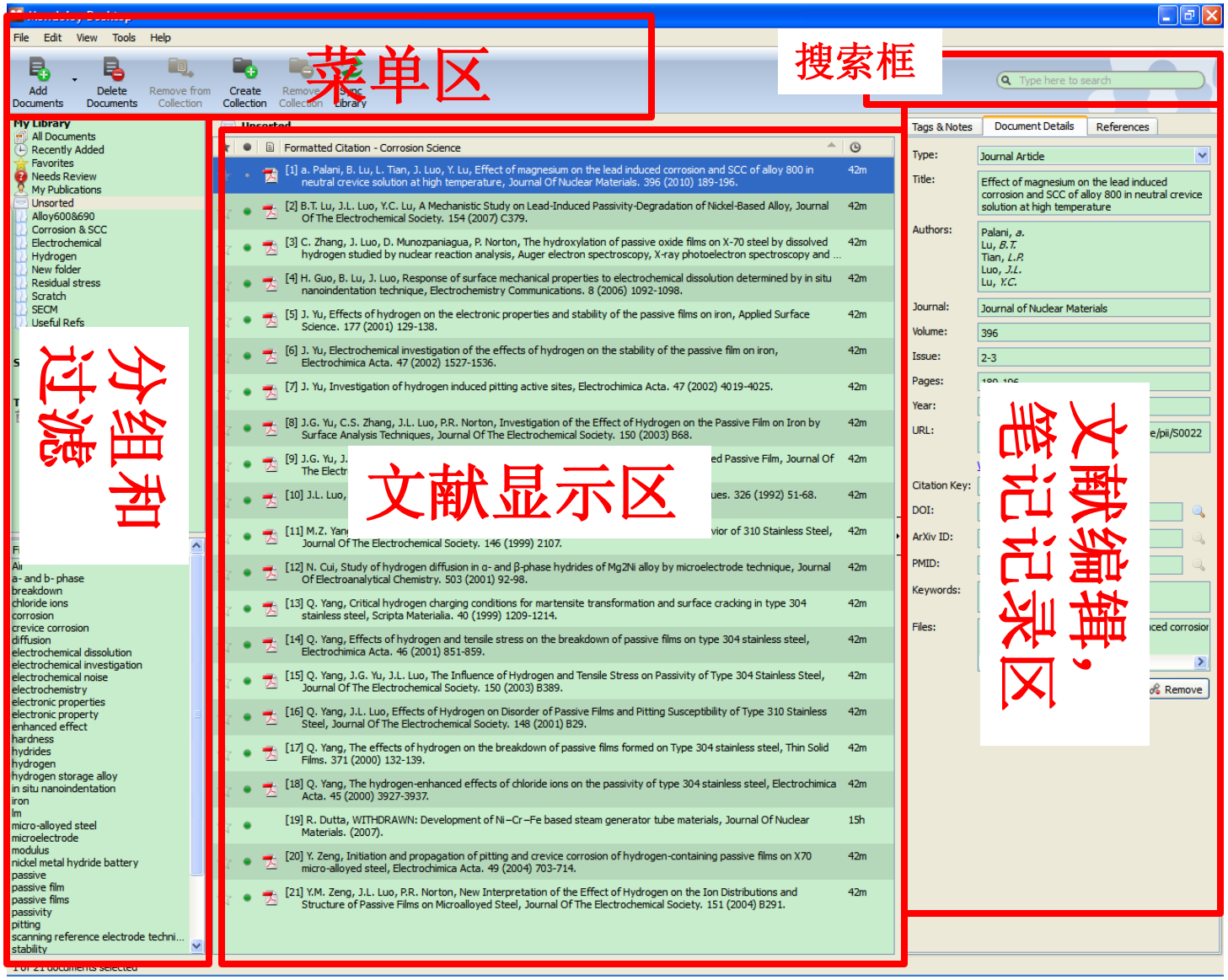
7.文献查找及分类，可以通过作者，作者关键词，笔记内容，以及出版杂志进行查找

8.数据库本地备份与恢复

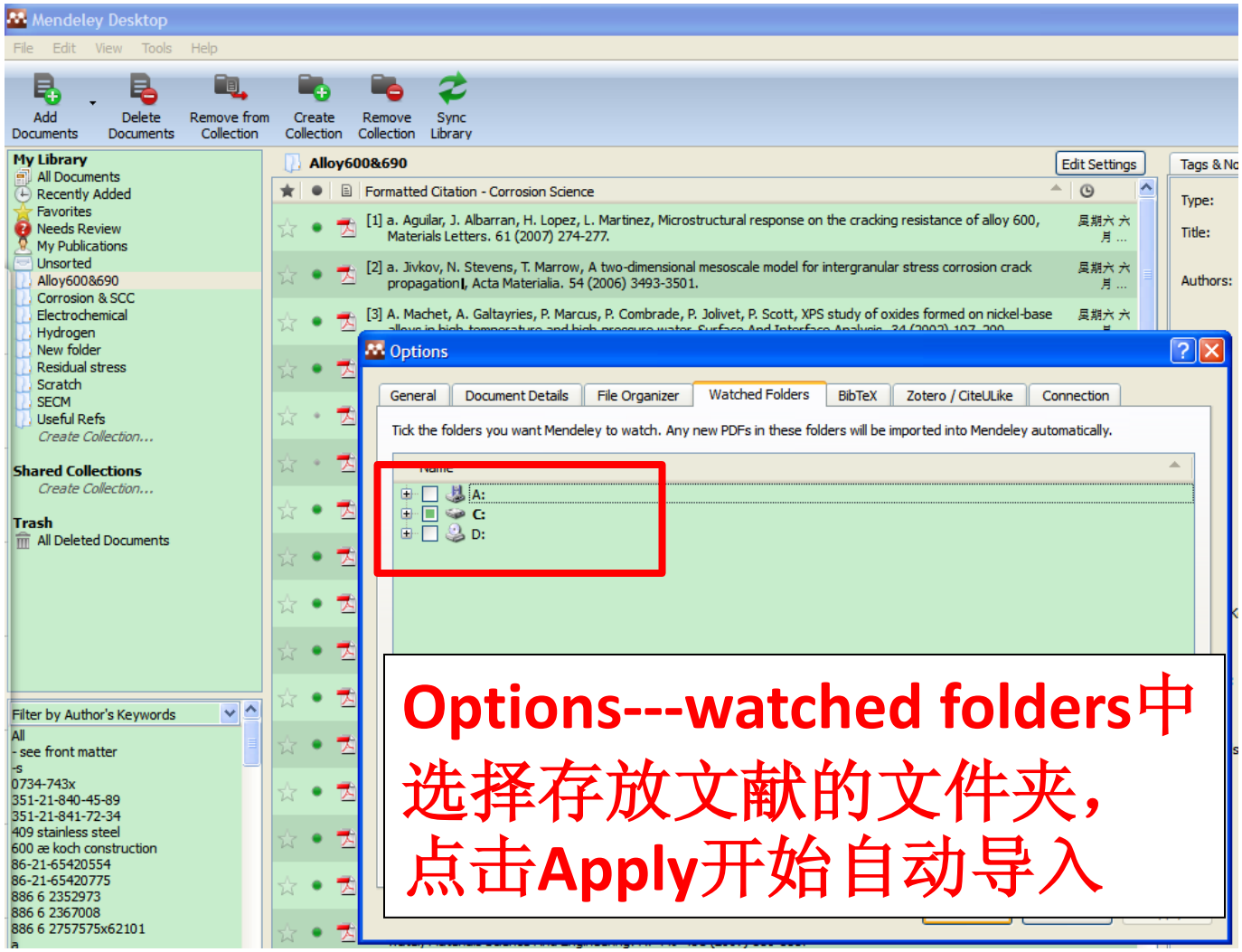
9.软件开源免费，有windows, Linux, Mac版本

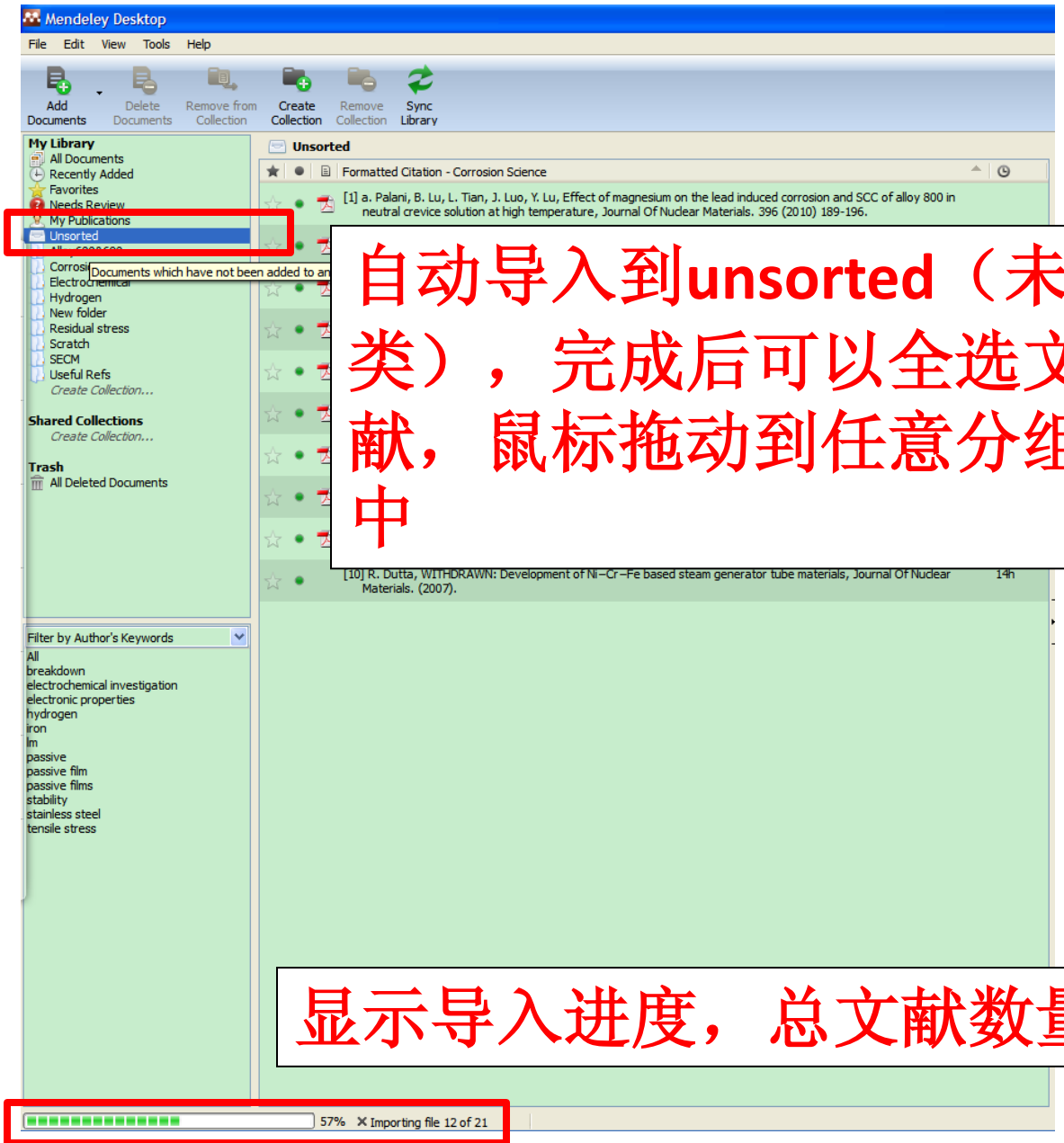
10. ……..

三、主界面



四、自动导入文件（独有功能）

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[1] a. Palani, B. Lu, L. Tian, J. Luo, Y. Lu, Effect of magnesium on the lead induced corrosion and SCC of alloy 800 in neutral crevice solution at high temperature, Journal Of Nuclear Materials. 396 (2010) 189-196.
[10] R. Dutta, WITHDRAWN: Development of Ni–Cr–Fe based steam generator tube materials, Journal Of Nuclear Materials. (2007).
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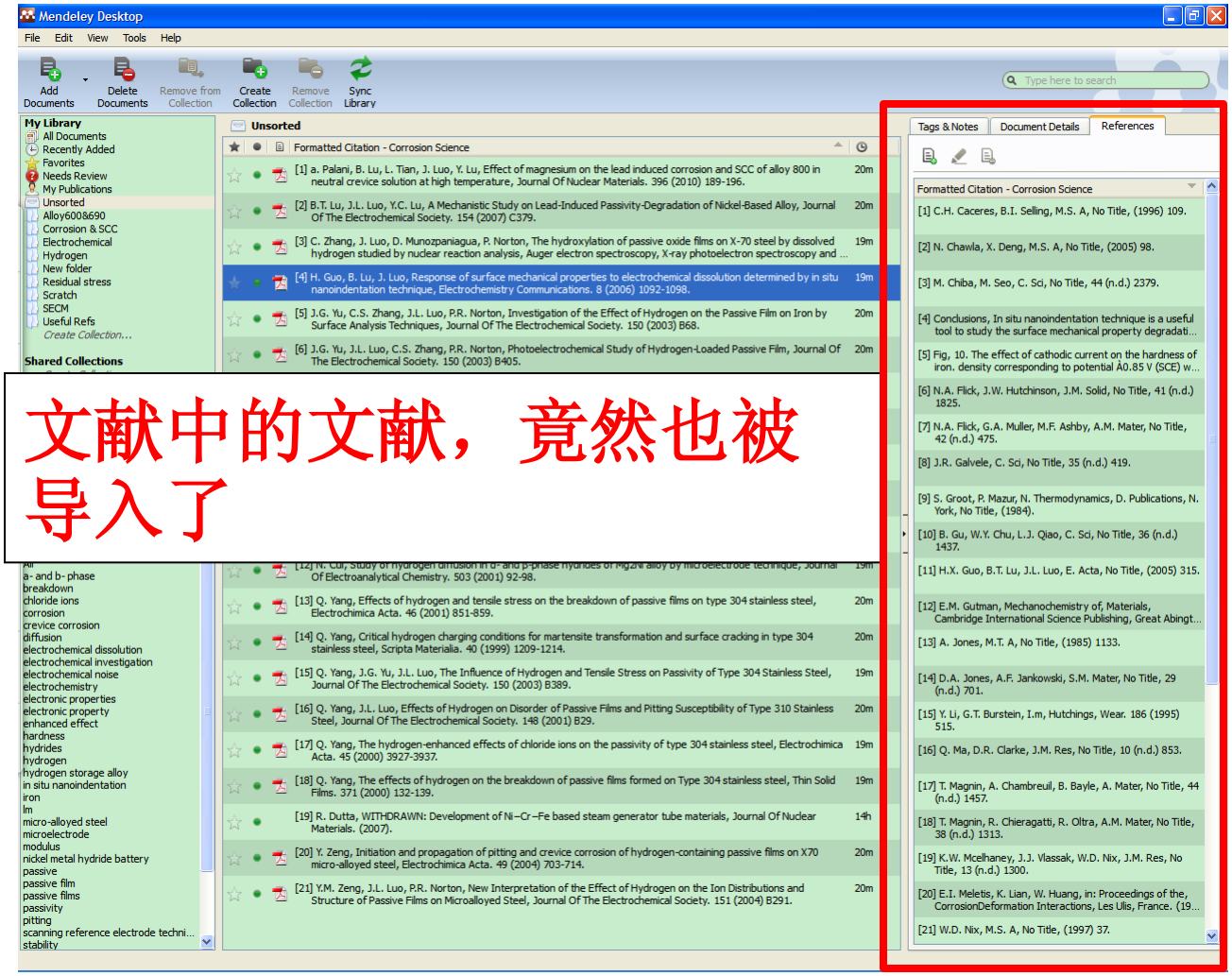

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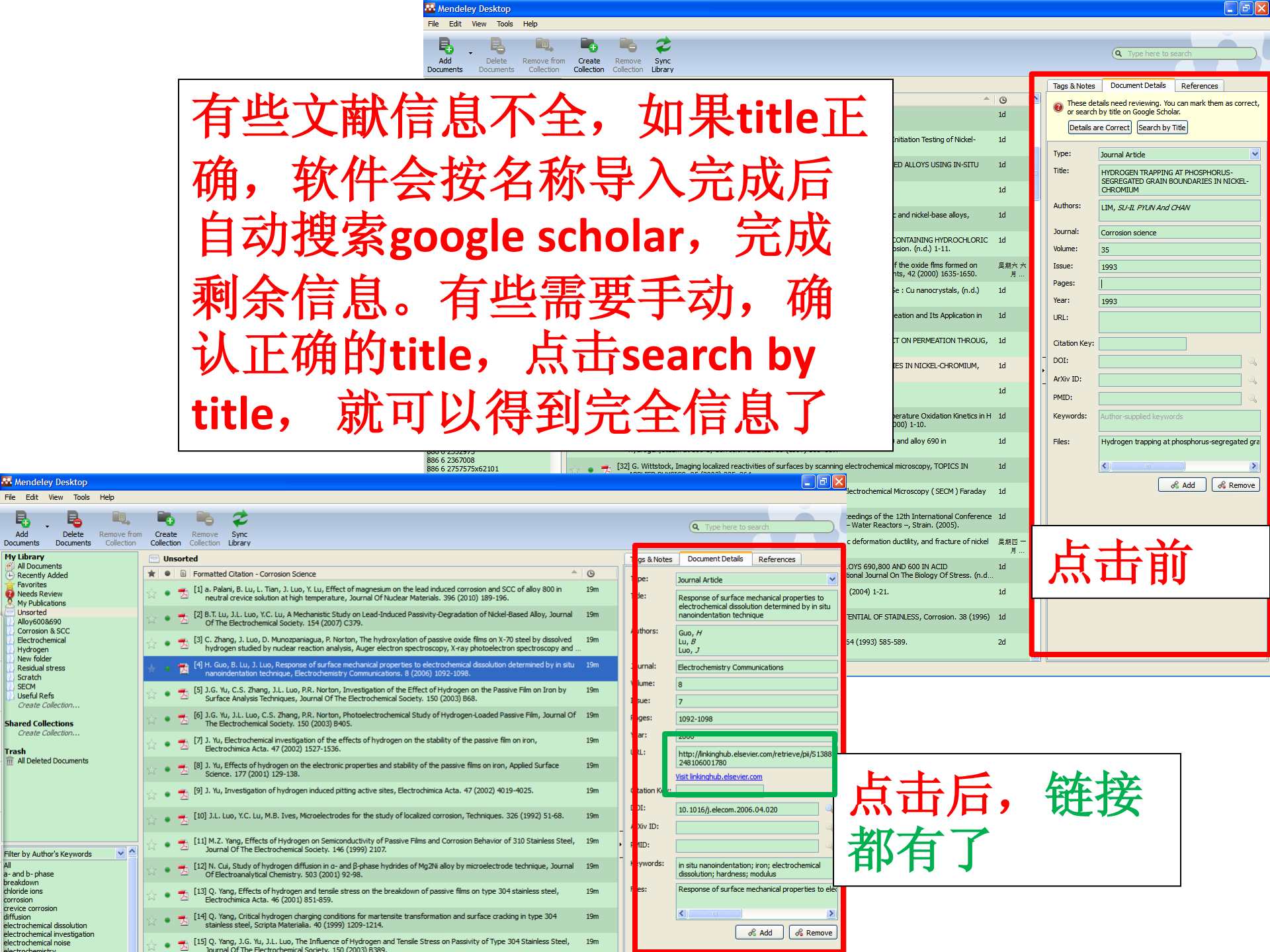
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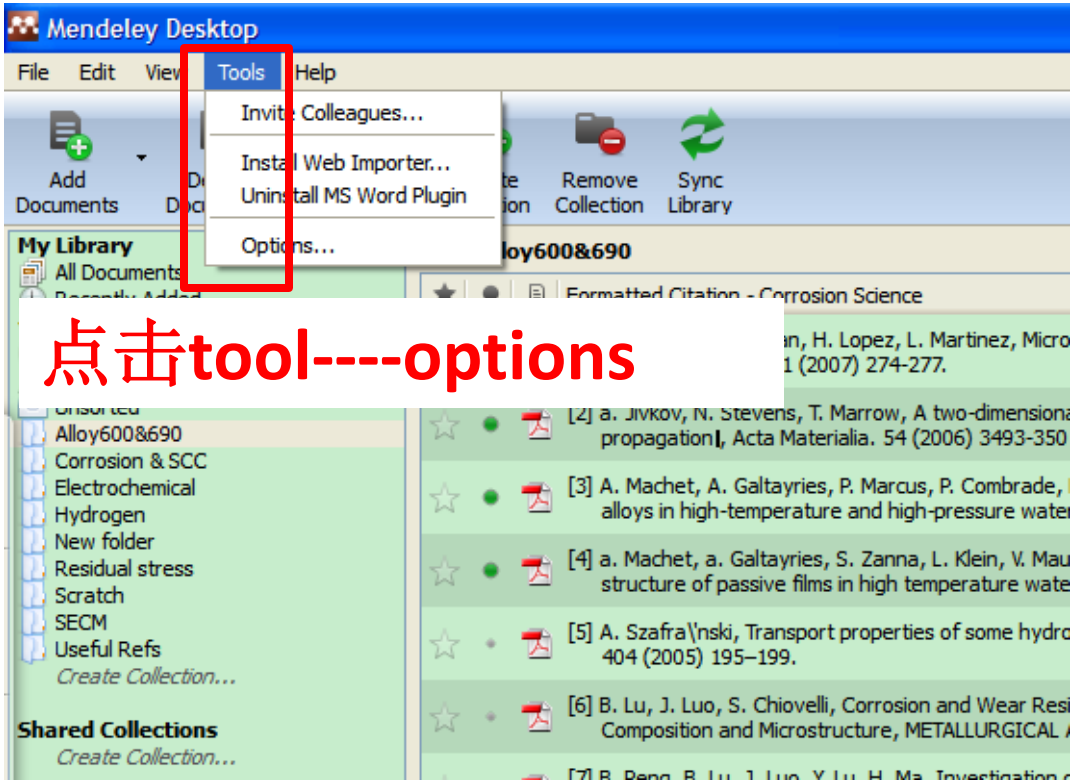
五、选项设置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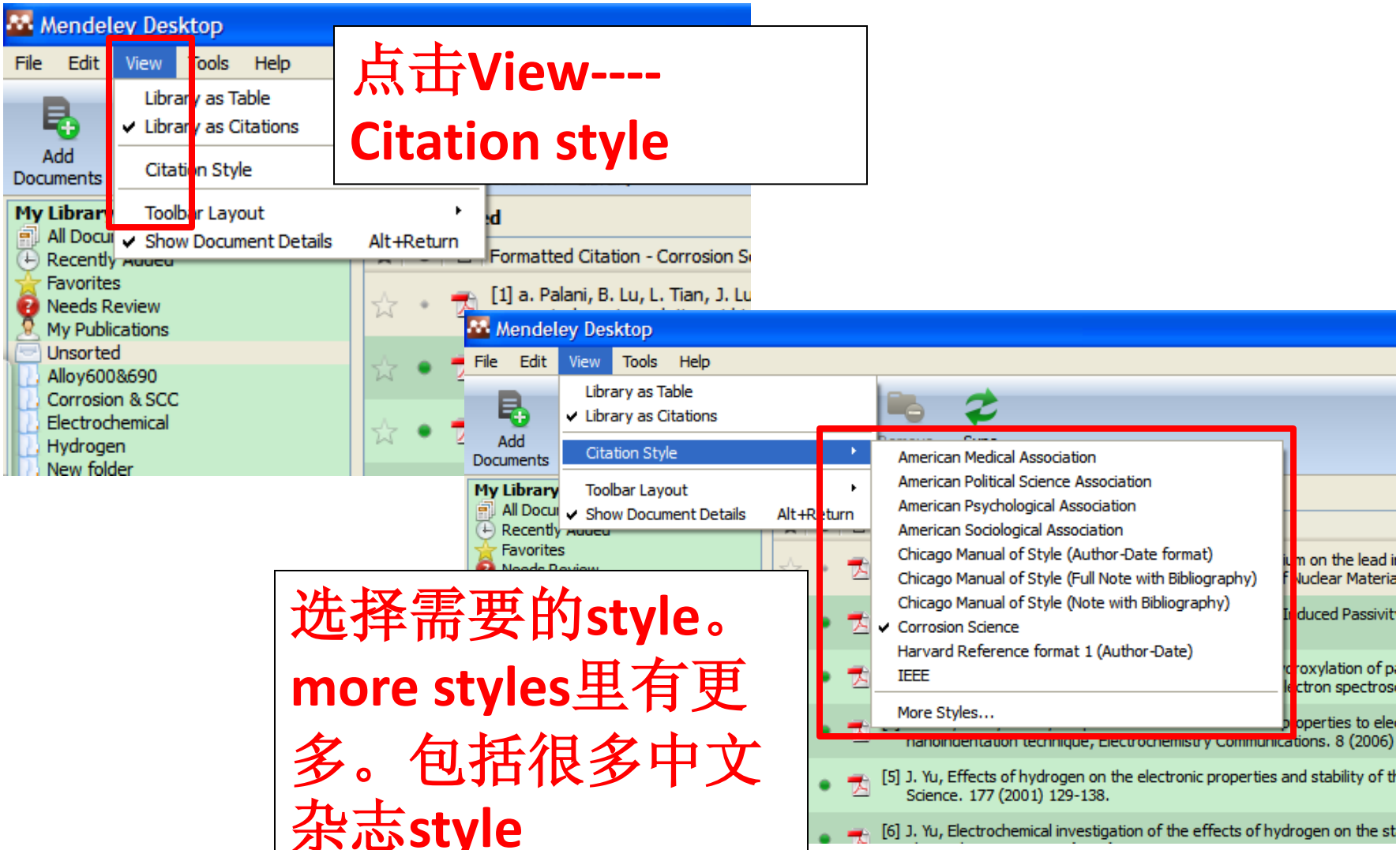
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[6] J. Yu, Electrochemical investigation of the effects of hydrogen on the st
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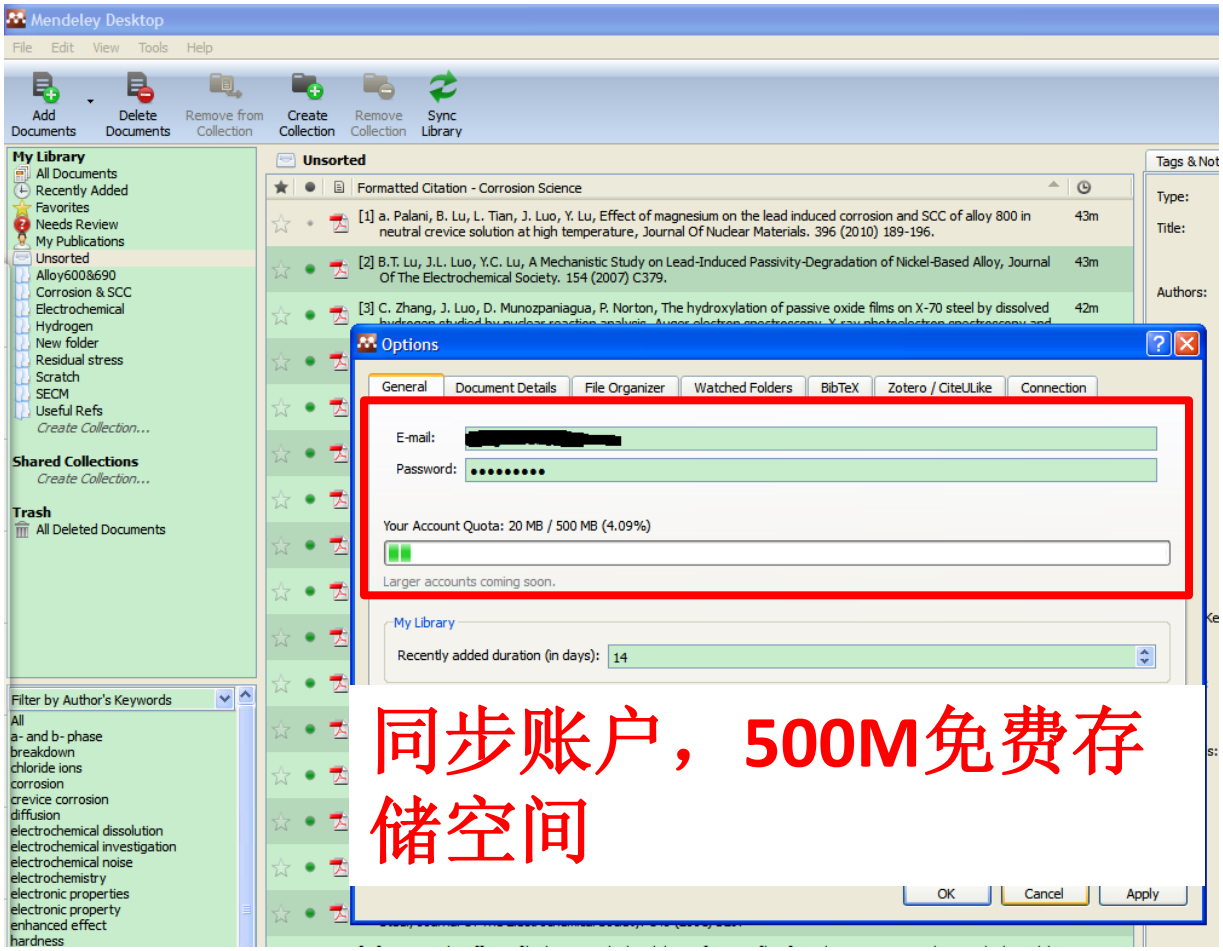
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[2] B.T. Lu, J.L. Luo, Y.C. Lu, A Mechanistic Study on Lead-Induced Passivity-Degradation of Nickel-Based Alloy, Journal Of The Electrochemical Society. 154 (2007) C379. 43m
[3] C. Zhang, J. Luo, D. Munozpaniagua, P. Norton, The hydroxylation of passive oxide films on X-70 steel by dissolved 42m
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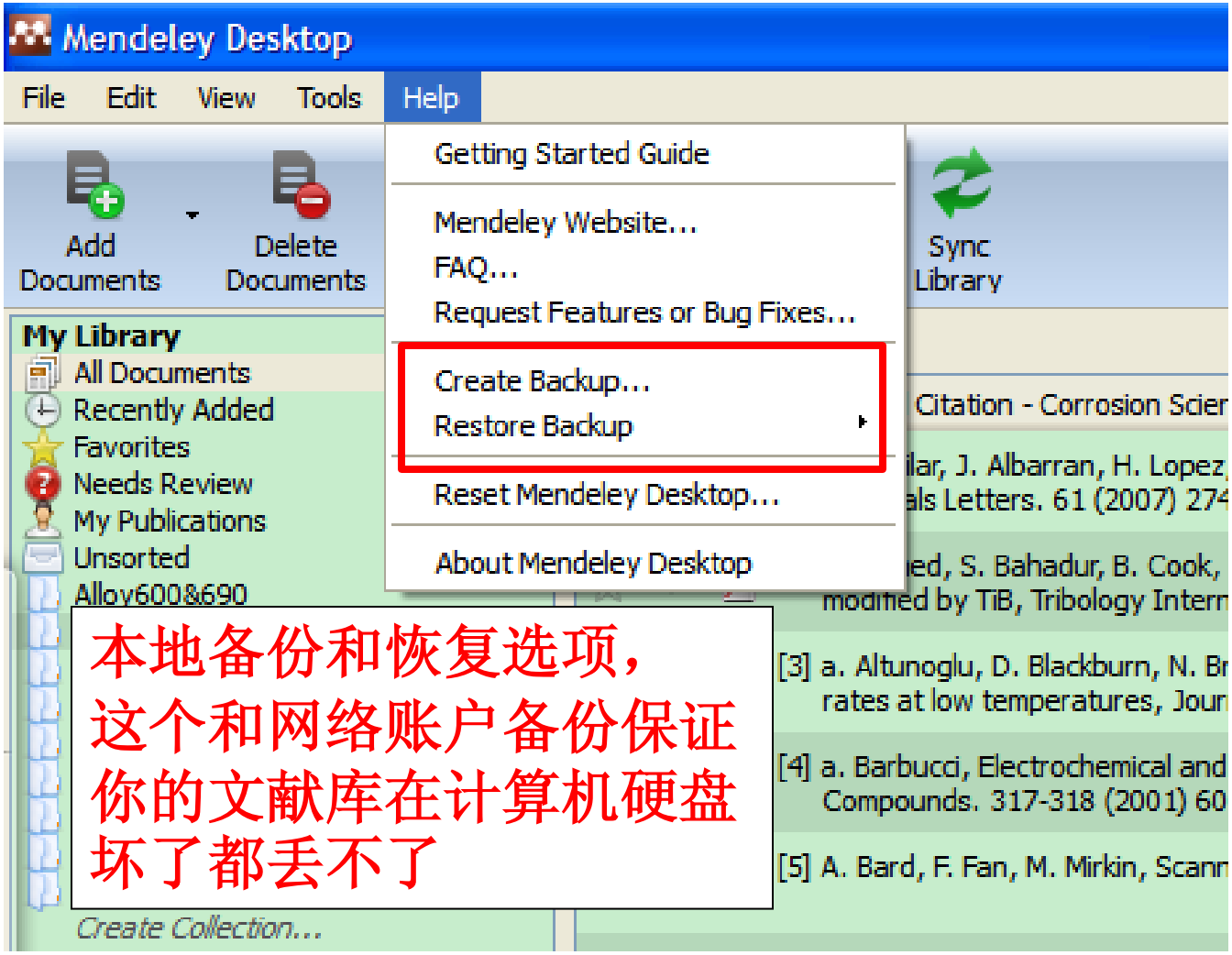
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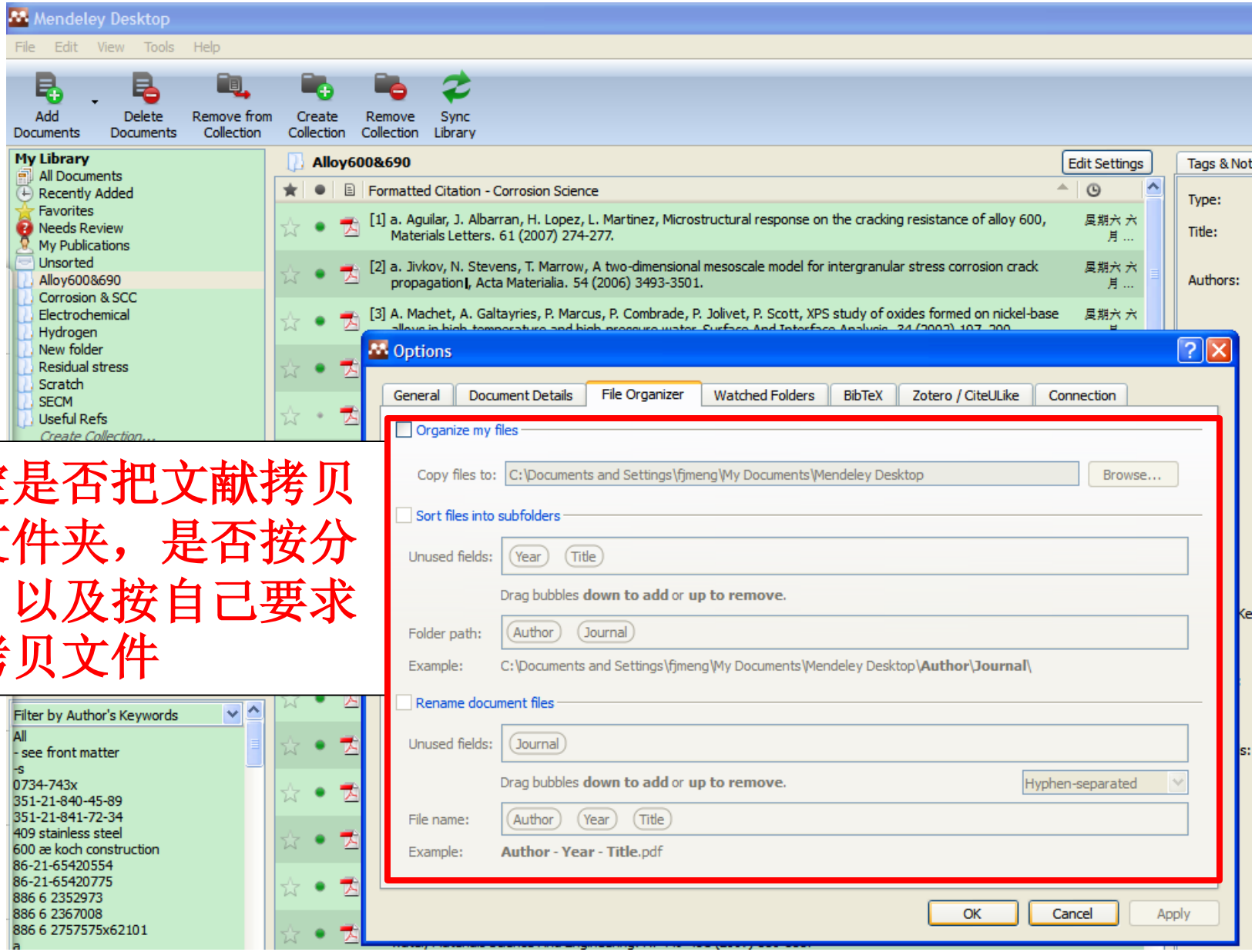

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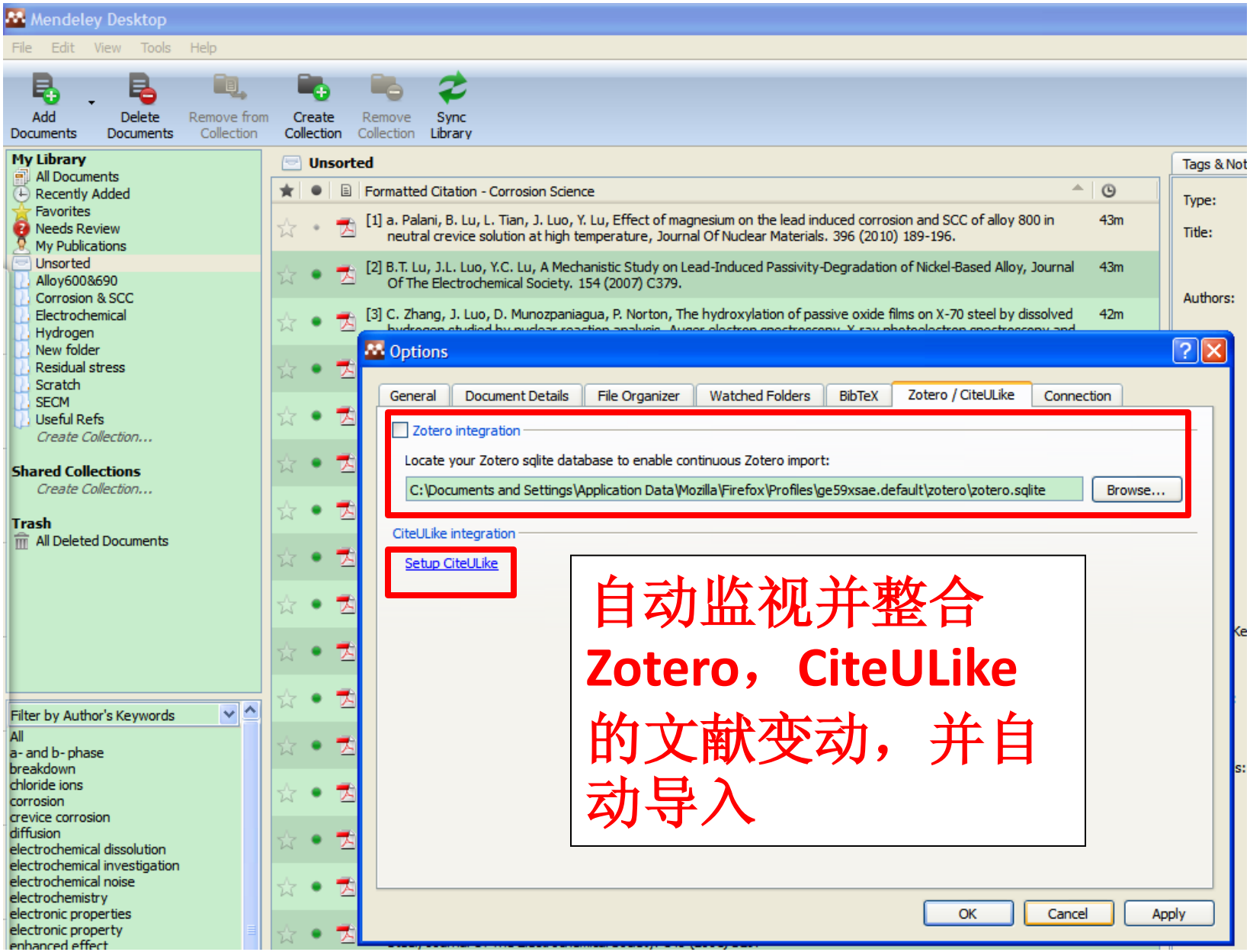
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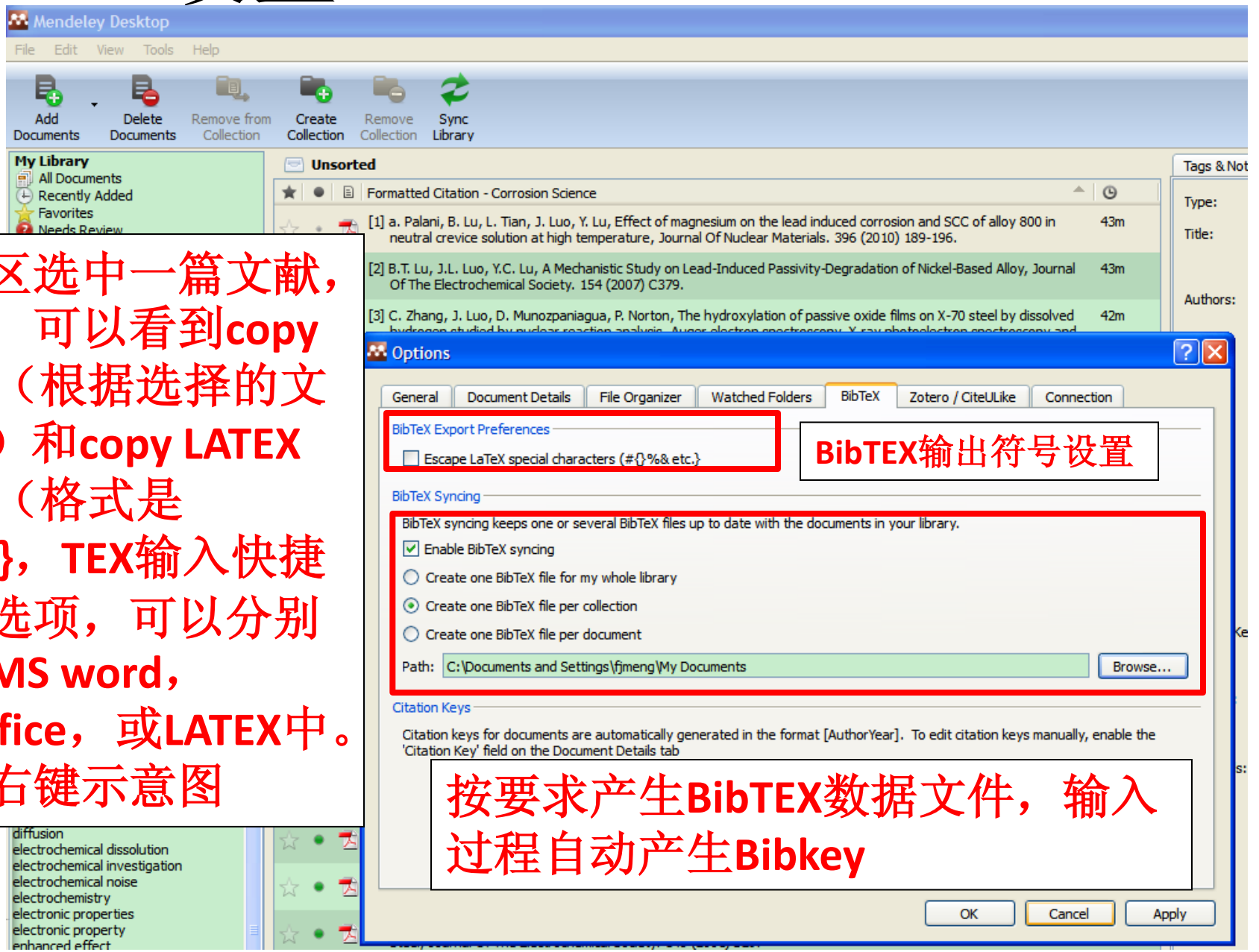
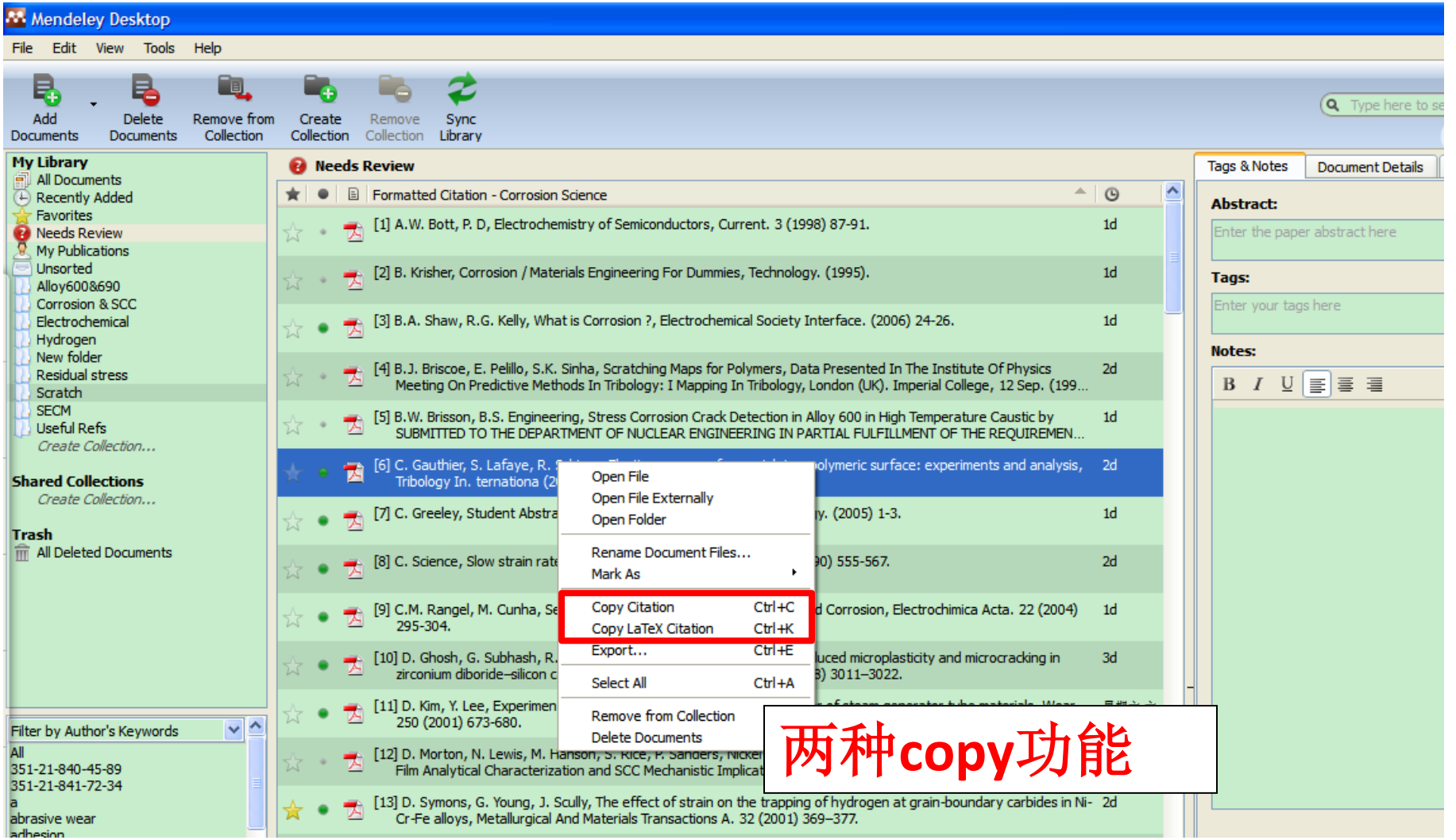
BibTEX设置

在文献区选中一篇文献，点右键，可以看到copy citation（根据选择的文献style）和copy LATEX citation（格式是\cite{...}，TEX输入快捷省时）选项，可以分别粘贴到MS word，OpenOffice，或LATEX中。见下页右键示意图

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[2] B. Krisher, Corrosion / Materials Engineering For Dummies, Technology. (1995). 1d
[3] B.A. Shaw, R.G. Kelly, What is Corrosion ?, Electrochemical Society Interface. (2006) 24-26. 1d
[4] B.J. Briscoe, E. Pelillo, S.K. Sinha, Scratching Maps for Polymers, Data Presented In The Institute Of Physics Meeting On Predictive Methods In Tribology: I Mapping In Tribology, London (UK). Imperial College, 12 Sep. (199... 2d
[5] B.W. Brisson, B.S. Engineering, Stress Corrosion Crack Detection in Alloy 600 in High Temperature Caustic by SUBMITTED TO THE DEPARTMENT OF NUCLEAR ENGINEERING IN PARTIAL FULFILLMENT OF THE REQUIREMEN... 1d
[6] C. Gauthier, S. Lafaye, R. Tribology In. ternationa (2 olymeric surface: experiments and analysis, 2d
[7] C. Greeley, Student Abstra y. (2005) 1-3. 1d
[8] C. Science, Slow strain rate 90) 555-567. 2d
[9] C.M. Rangel, M. Cunha, Se 295-304. d Corrosion, Electrochimica Acta. 22 (2004) 1d
[10] D. Ghosh, G. Subhash, R. zirconium diboride–silicon c uced microplasticity and microcracking in 3) 3011–3022. 3d
[11] D. Kim, Y. Lee, Experimen 250 (2001) 673-680.
[12] D. Morton, N. Lewis, M. Hanson, S. Rice, P. Sanders, Nickel Film Analytical Characterization and SCC Mechanistic Implicat
[13] D. Symons, G. Young, J. Scully, The effect of strain on the trapping of hydrogen at grain-boundary carbides in Ni-Cr-Fe alloys, Metallurgical And Materials Transactions A. 32 (2001) 369–377. 2d
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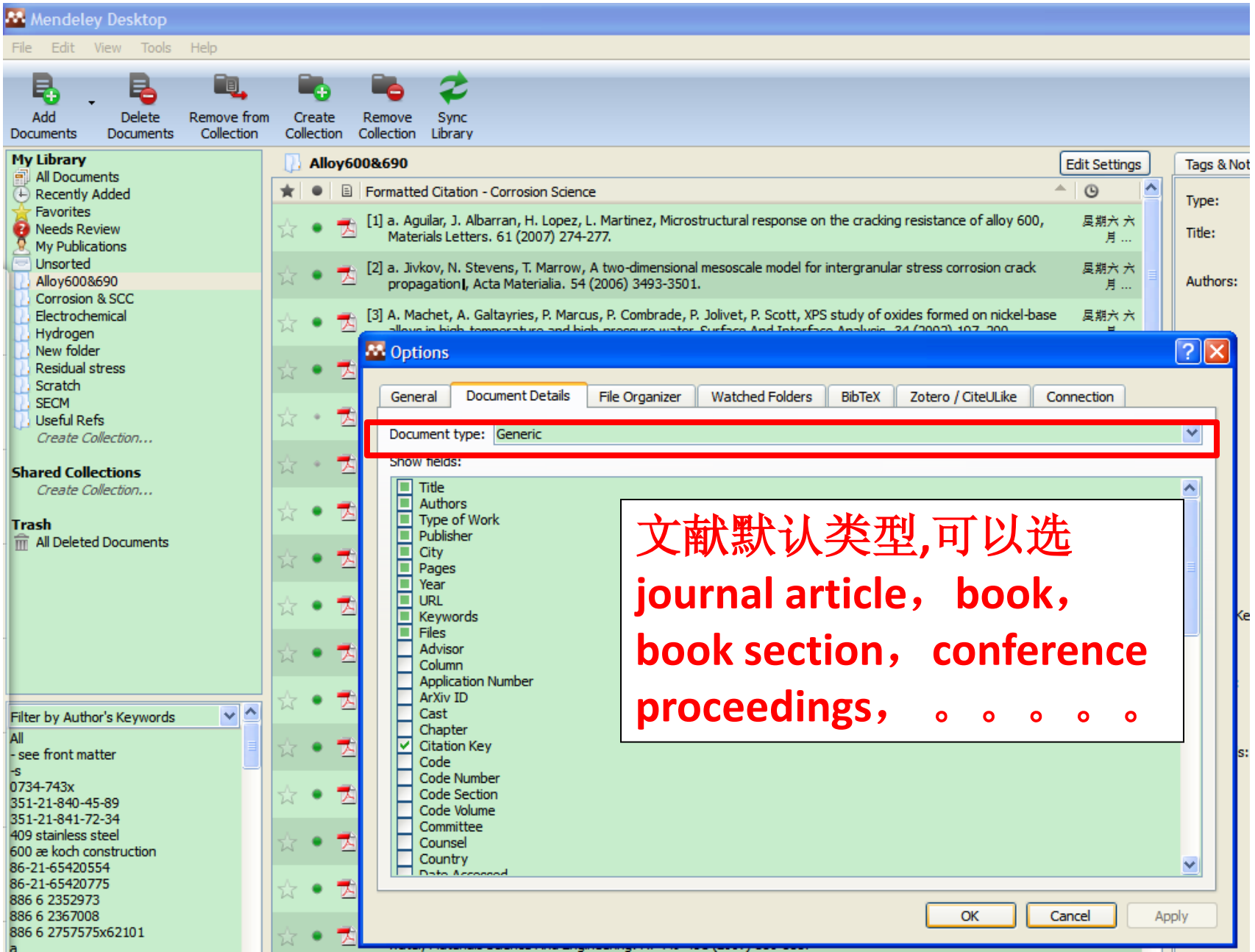
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[2] a. Jivkov, N. Stevens, T. Marrow, A two-dimensional mesoscale model for intergranular stress corrosion crack propagation, Acta Materialia. 54 (2006) 3493-3501.
[3] A. Machet, A. Galtayries, P. Marcus, P. Combrade, P. Jolivet, P. Scott, XPS study of oxides formed on nickel-base
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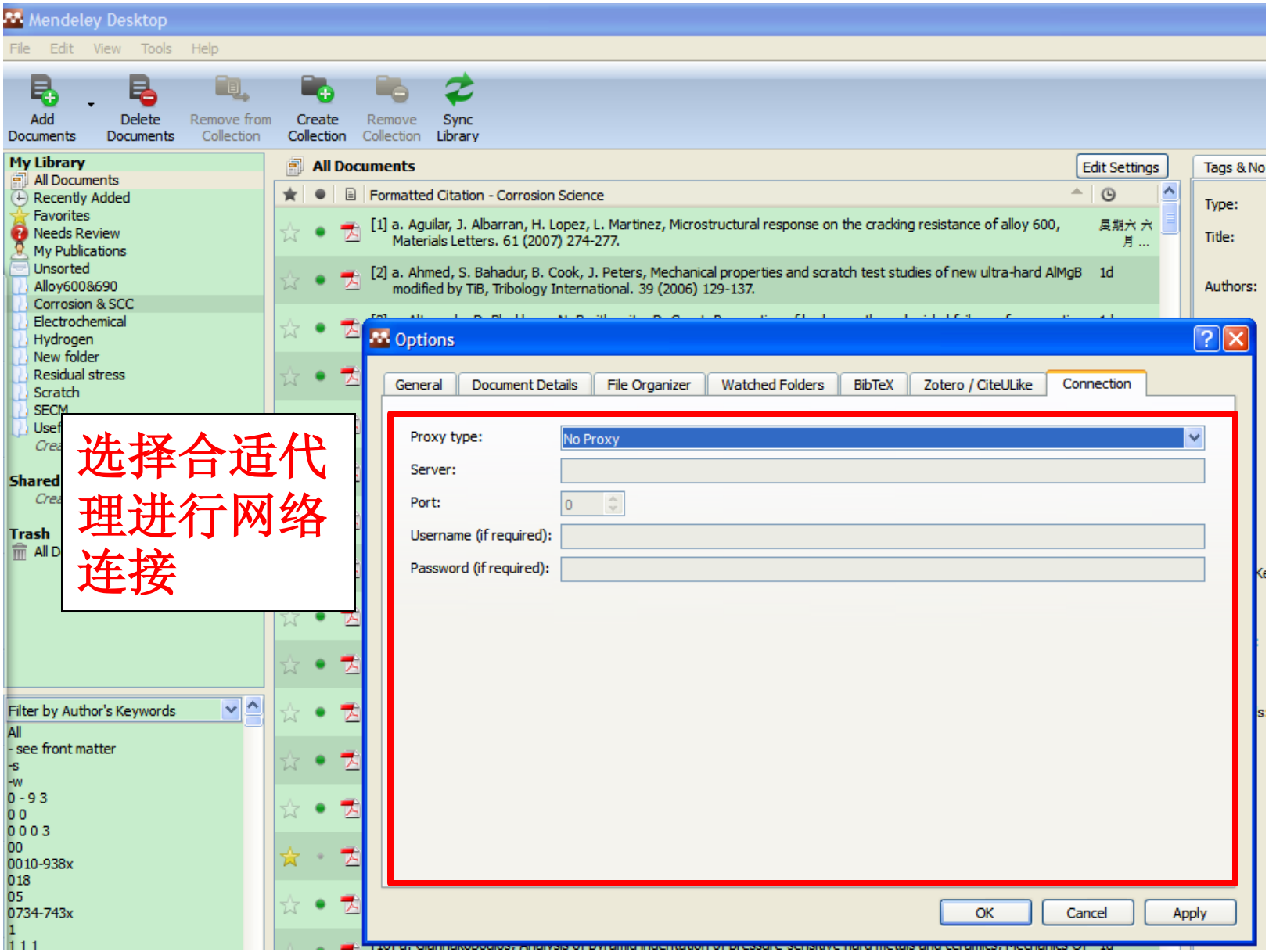
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[2] a. Ahmed, S. Bahadur, B. Cook, J. Peters, Mechanical properties and scratch test studies of new ultra-hard AlMgB modified by TiB, Tribology International. 39 (2006) 129-137.
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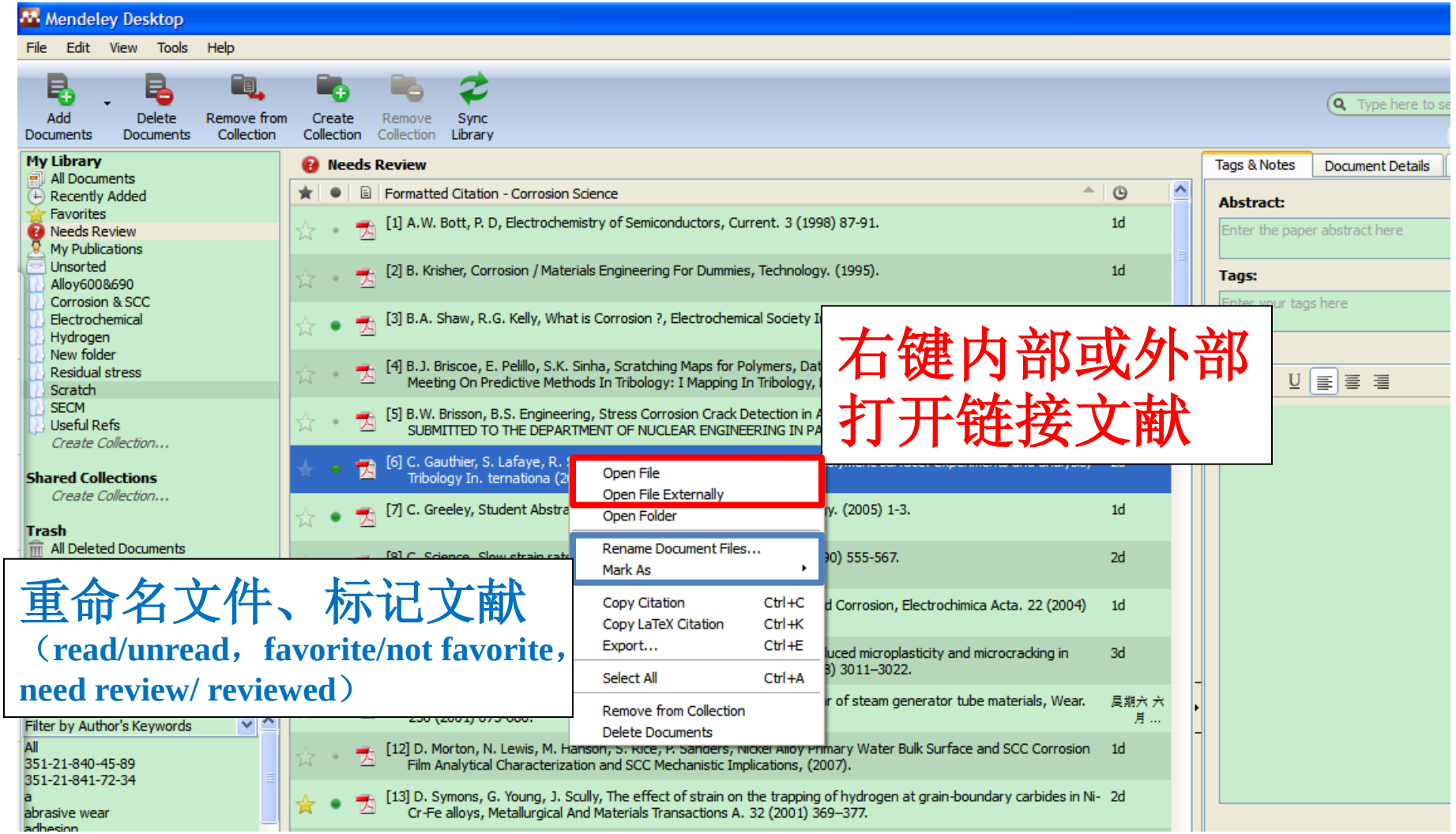
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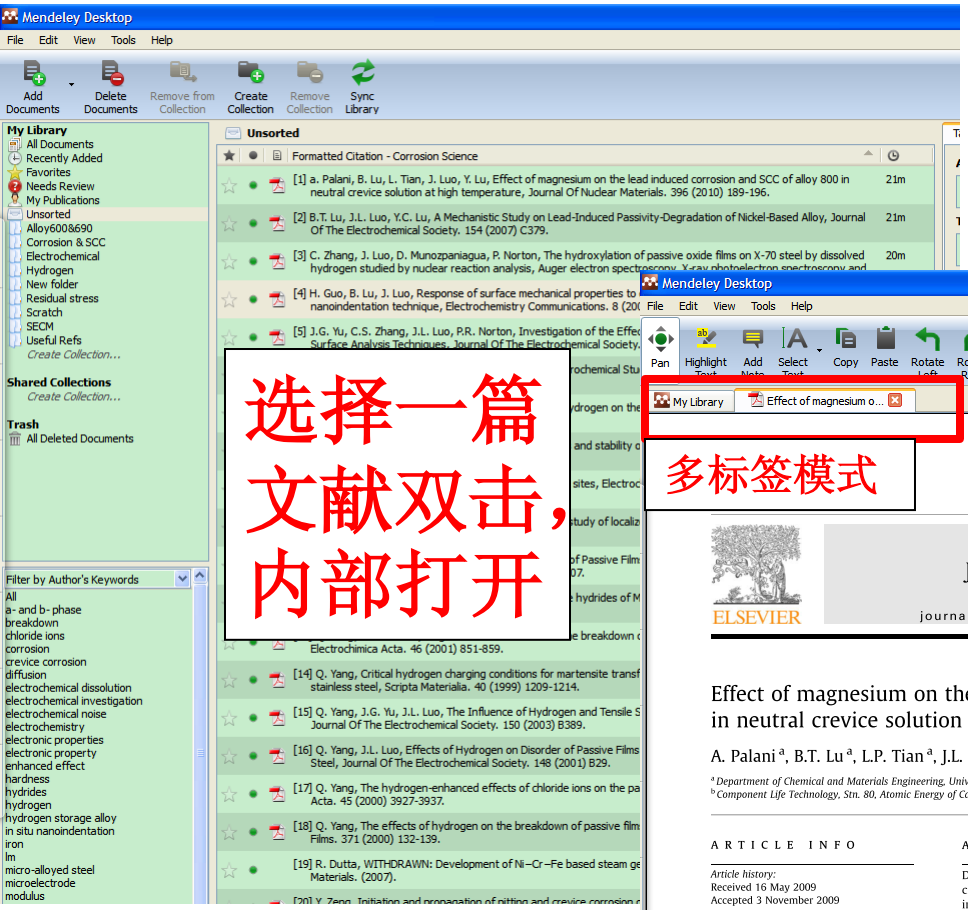
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Effect of magnesium on the lead induced corrosion and SCC of alloy 800 in neutral crevice solution at high temperature
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ABSTRACT
Dissolved magnesium species in the feed water reduce the incidence of lead-induced stress corrosion cracking (PbSCC) of Alloy 800. The passivity of material was improved by replacing a part of chlorides in the lead-contaminated chemistry with magnesium chloride, as indicated by: (1) a higher pitting potential; (2) lower passive current densities; (3) a film structure with less defects and more spinel oxides. According to the constant extension rate tensile (CERT) tests conducted in the neutral crevice solutions at 300 °C, lead contamination would reduce the ultimate tensile strength (UTS) and elongation of material. The CERT test results were in agreement with the fracture morphology observations. Magnesium addition significantly reduced the detrimental effect of lead contamination.
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1. Introduction
The economic viability of nuclear power infrastructure depends on the safe and reliable operation of pressurized water reactors (PWRs) to minimize any unexpected shutdown. Failure of steam generator (SG) tubes on the secondary side is the major concern in nuclear power plants. These SG tubes are subject to stress corrosion cracking (SCC) in heat transfer crevices associated with tube supports, where the harmful species may be highly concentrated. SCC may develop when the local concentration of harmful species exceeds certain threshold levels [1–3]. Lead contamination found in sludge has been recognized as a primary contributor to SCC
rities in solution can be incorporated into the passive film and increase the likelihood of breakdown [10,11]. Experimental evidence showed a relationship between the rupture ductility of a passive film and SCC susceptibility of Alloy 800 [12]. In addition to Pb, other species like Cu, Al, Mg, etc. are also present in the sludge, hence there are complex local chemistries [7]. Limited data suggest that both passivity and SCC susceptibility are affected by these species [2,3,9,11]. However, the interactive effects of lead with theses species and their role in lead induced SCC (PbSCC) are still poorly understood. In this study, the effect of magnesium on the passivity and SCC susceptibility of Alloy 800 has been determined for lead contaminated neutral crevice solutions at 300 °C.

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crevice solution.

the scratches created by grinding on the crack initiation. Then each specimen was cleaned sequentially with distilled water and acetone.

The solutions used for the investigation are listed in Table 2 and were designed carefully to simulate the actual crevice conditions that prevail in CANDU SG tubes. Solution N1 is the standard neutral crevice solution and N2 is made by the addition of lead oxide to N1 solution. To study the effect of magnesium, 0.075 M $MgCl_2$ or 0.15 M $MgCl_2$ was added to replace a part of standard metal chlorides in the lead-contamination chemistry without changing the total chloride concentration and pH. The solution ion concentrations were calculated using commercial software (OLI).

2.2. Electrochemical measurements

Electrochemical measurements were conducted in an autoclave with a three-electrode electrochemical system at 300 °C. The counter electrode was a platinum wire welded to a platinum mesh and the reference electrode was an Ag/AgCl/KCl electrode [13]. Before the autoclave was heated up, the solution was purged with high purity nitrogen to create an anaerobic condition. All the potentials were converted to standard hydrogen electrode unless otherwise stated. A Camry 3.2 electrochemical measurement system was used in the electrochemical experiments.

(OCP) for 24 h at 300 °C before each surface analysis. X-ray photoelectron spectroscopy (XPS) measurements were performed using an Axis-ULTRA (Kratos Analytical) spectrometer controlled by a SUN workstation. Photoelectron emission was excited by an aluminium (monochromatized) source operated at 210 W with initial photon energy 1486.71 eV. The survey spectra were recorded at steps of 0.33 eV using 160 eV pass energy, whereas high-resolution spectra were taken at steps of 0.1 eV using 20 eV pass energy. The base pressure was approximately 5×10^{-10} Torr. The C1s peak from adventitious carbon at 284.6 eV was used as a reference to

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N4

Solution ID
N1
N2
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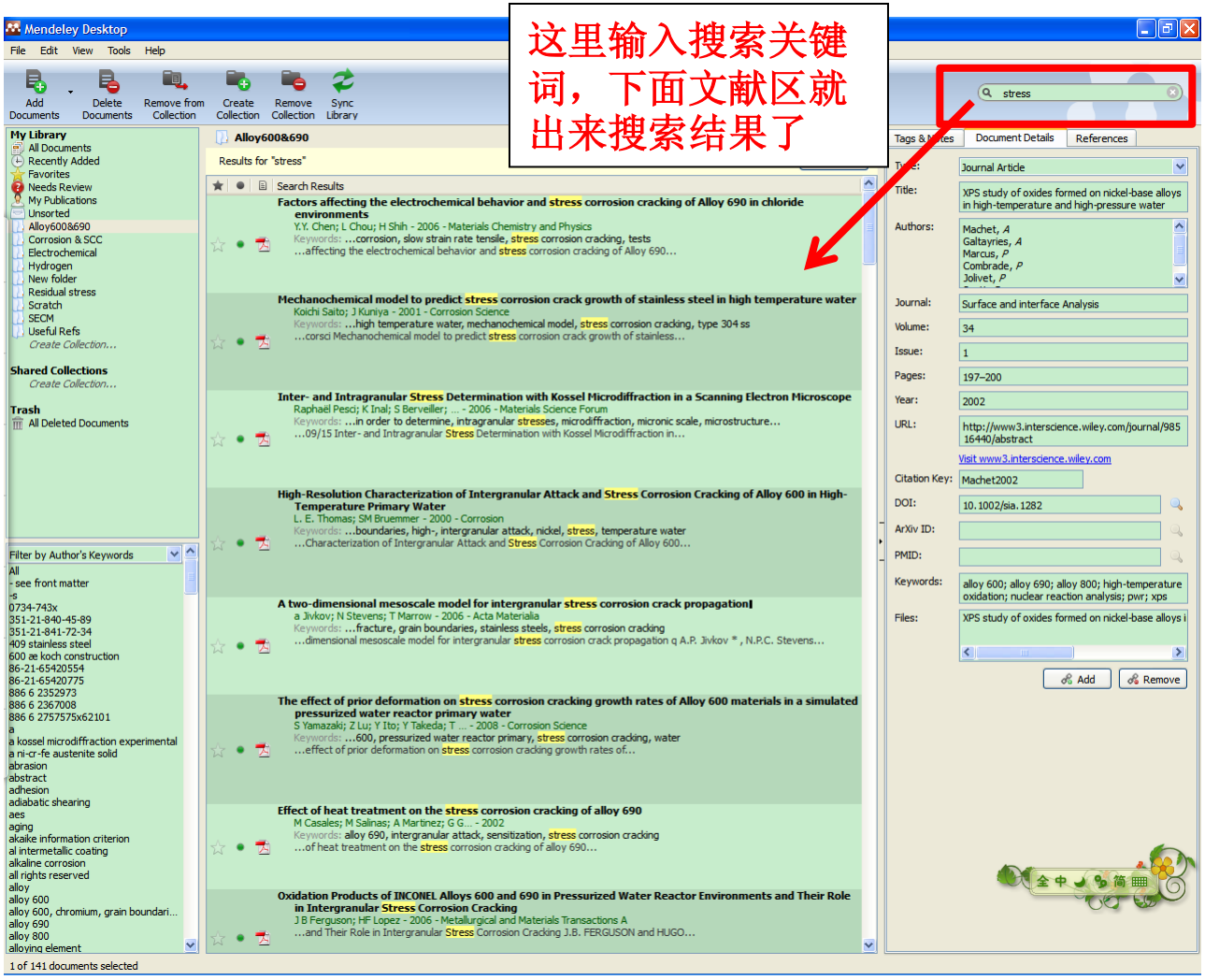
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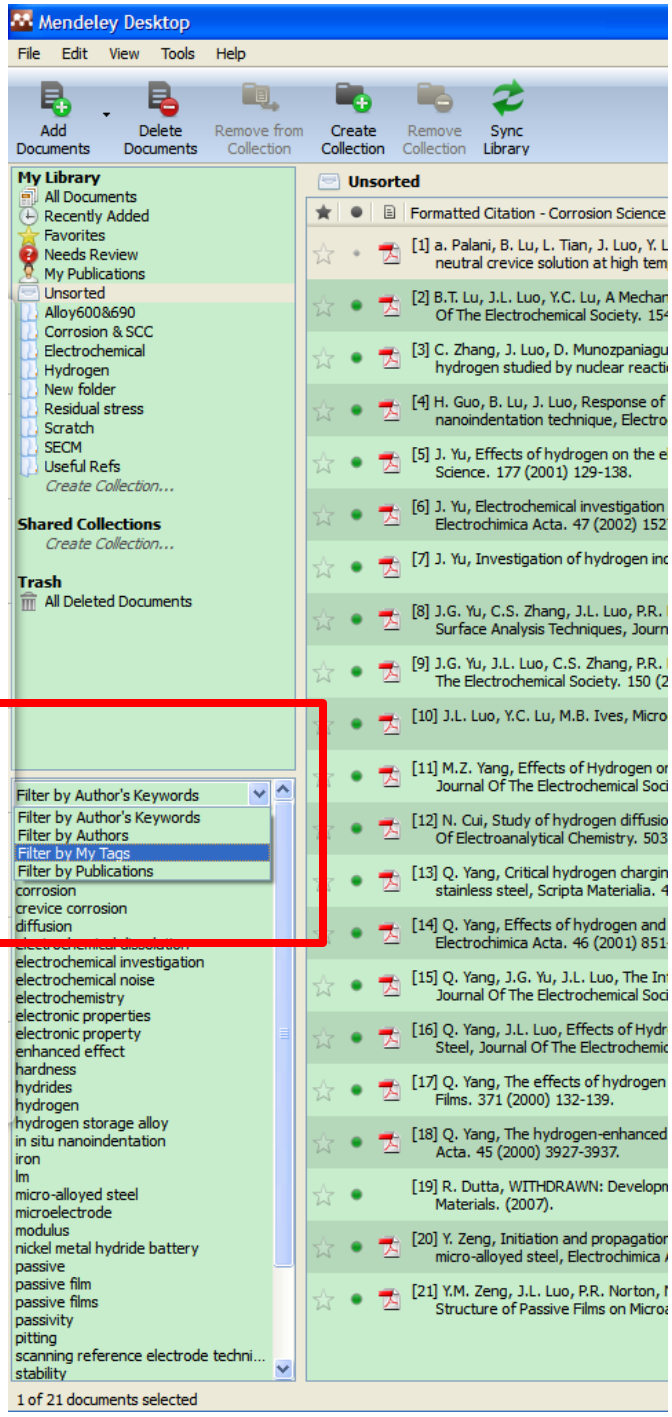

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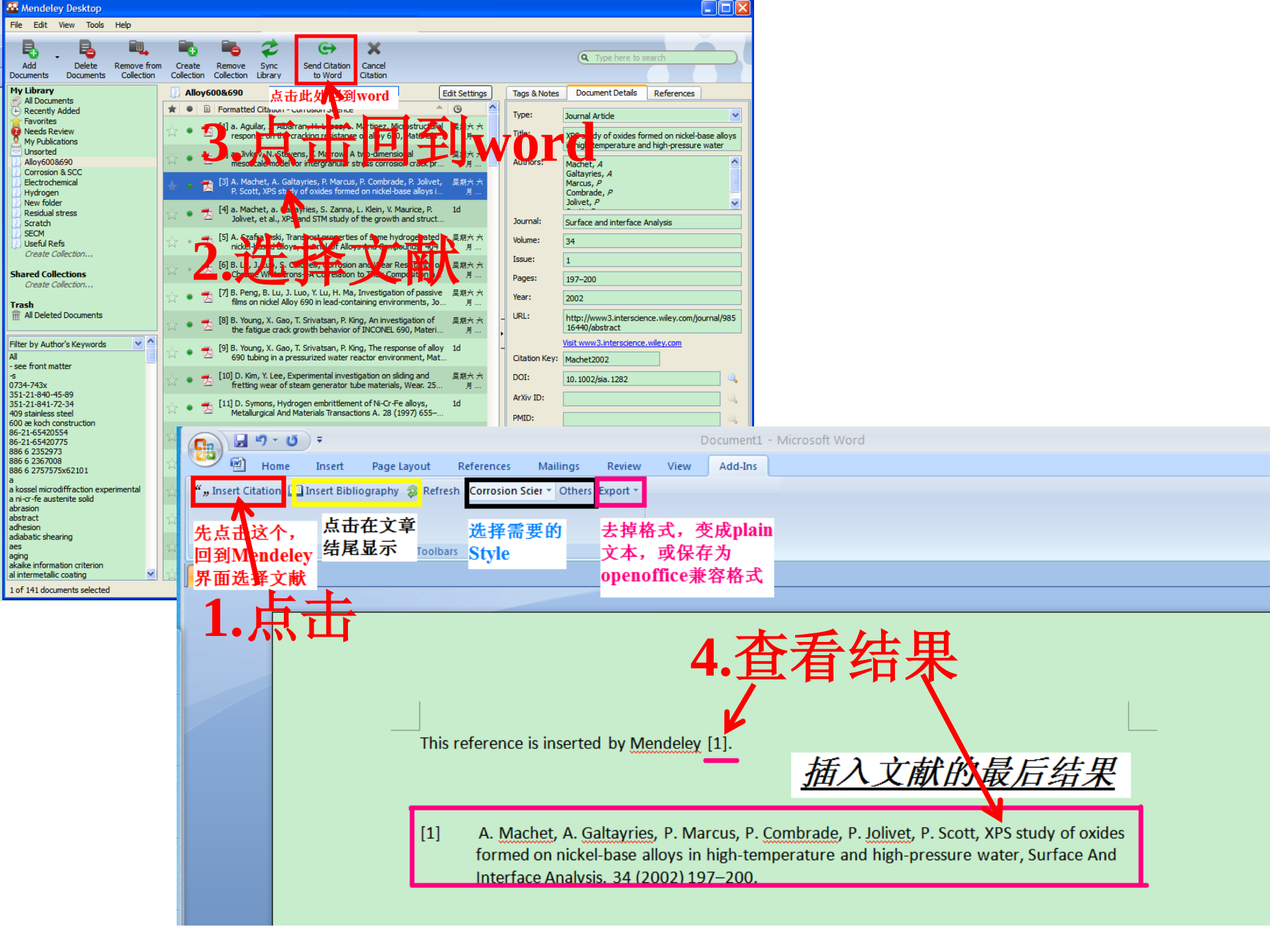
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