

أستخدام البرامحيات لترتيب وتنسيق القراجم

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لايسعني بعد شكر الله ا تعالى الا ان اقدم خالص شكري وتقديري الى
عميد كلية علوم التربية

الاستاذ الدكتور صباح عبود عاتي

لجهوده المبذولة في اقامة هذه الدورة
كما واتقدم بجزيل الشكر والتقدير الى

الاستاذ لدكتور هيفاء نمازي رشيد

كما ان الوفاء يلزمني بالامتنان الى مدير التعليم المستمر

الاستاذ المساعد منتهى عبد الزهرة

مهاور الدوراة

- أهم البرامجيات لادارة المراجع.
- برنامج EndNote وأهم مميزاتة.
- تحميل وتنصيب برنامج الـ EndNote.
- انشاء المكتبات.
- استيراد بيانات المراجع من محركات البحث وقواعد البيانات.
- اضافة بيانات المراجع يدوي .
- ارفاق ملفات pdf مع بيانات المرجع.
- تعديل النمط (style) حسب متطلبات الجامعة أو المجلة
- انشاء المجموعات.

البرامجيات المتاحة لتبويب المراجع:

هناك العديد من البرامجيات التوثيقية المتاحة لتبويب وتنسيق وتخزين المراجع اثناء كتابة البحوث بعض هذه البرامج متاحة بشكل مجاني على الانترنت والبعض الاخر يتطلب دفع رسوم مقابل الحصول عليها حيث يوجد اكثر من ٣٠ برنامج ومن أهم هذه البرامج :

أداة BeTex المكمل لنظام اعداد LaTeX . KBibTeX

برنامج mendeley . MENDELEY



برنامج Zotero



برنامج EndNote



برنامج EndNote:

هو أحد البرامج الشهيرة و المفيدة في إدارة وتبويب المراجع و أنا شخصيا أنصح به أو بأحد البرامج الشبيهة له لأي باحث يعمل على اي بحث يشتمل على مصادر عديدة. البرنامج من البرامج الغير مجاني إلا أن سعره رخيص، أضف إلى ذلك إلى أن العديد من الجامعات خارج العراق غالبا ما توفر نسخة من برنامج EndNote للطلاب.



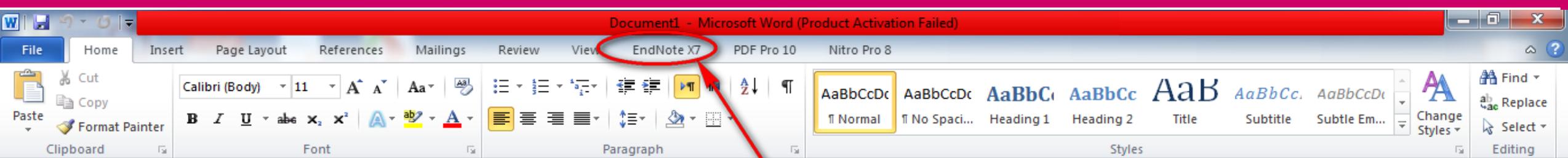
أهم المميزات المفيدة لبرنامج EndNote :

- ✪ تنسيق المراجع من الامور المهمة لكنها متعبة بالرجوع الى الطريقة التقليدية بالكتابة
- ✪ المباشرة بال **Word**.
- ✪ سهولة إنشاء مراجع جديدة و استخدامها في الملفات المتعددة والمختلفة.
- ✪ إنشاء تلقائي لقائمة المراجع في نهاية ملف الورد.
- ✪ إنشاء مجموعات و أكثر من مكتبة للمراجع و تصنيفها وإعطاءها كلمات مفتاحية وغيرها.
- ✪ سهولة اتباع قوانين التنسيق المطلوبة عند القيام بإنشاء قائمة المراجع.
- ✪ توفر امكانية كتابة الملاحظات من قبل الباحث لكل مرجع من تلك المراجع وتقوم بالاحتفاظ بتلك الملاحظات.
- ✪ معظم قواعد البيانات متوافقة مع برنامج **EndNote** وتعتبر رقم واحد في برامج الببليوجرافيا (Bibliography manager) (مدير قوائم المراجع) في ادارة المراجع وهذه ميزة كبيرة فية.

تنظيم وإدارة المراجع باستخدام برنامج EndNote.

عن تنصيب برنامج **EndNote** على الحاسبة سيظهر شريط الادوات في برنامج محرر النصوص الـ **Word** كما في الشكل ادناه ليسهل عملية الاقتباس

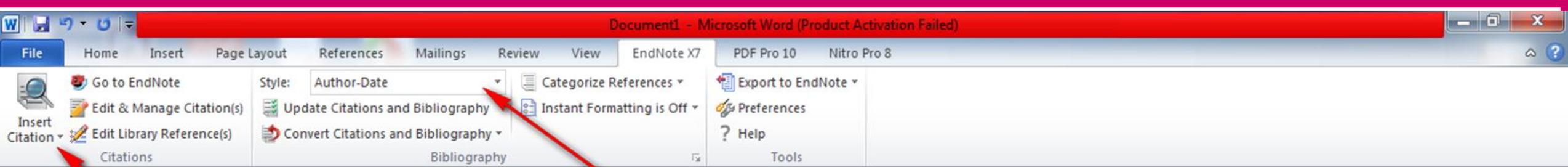




EndNote X7

ملاحظة هامة: أثناء تنصيب برنامج الاندوت قم باغلاق برامج **Microsoft Office**





من هذه نختار نوع التنسيق المطلوب

من هذه نختار المصدر المطلوب من مكتبة
EndNote (المصدر الذي تم الاستشهاد به
اثناء كتابة البحث)

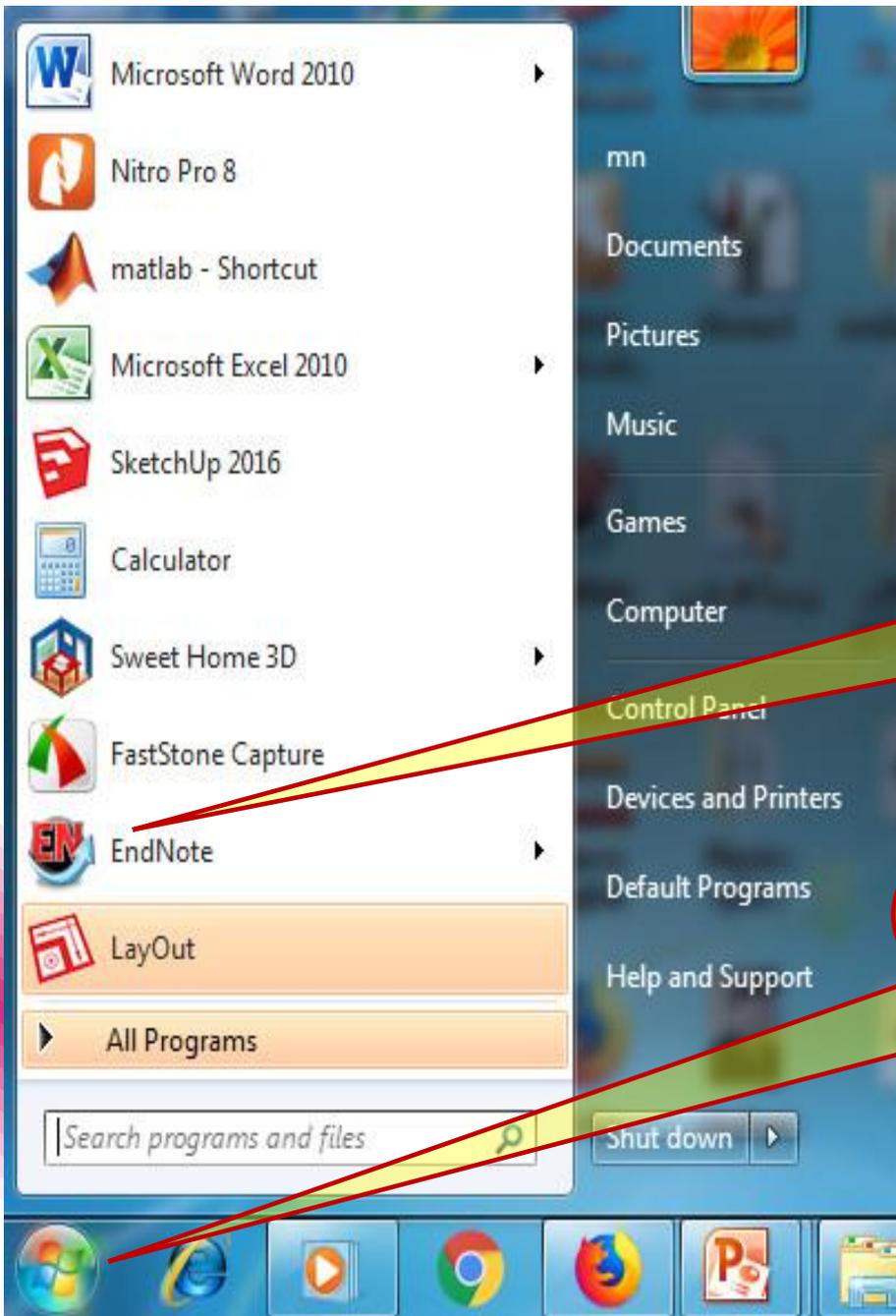


تشغيل برنامج EndNote لأول مرة:

فتح برنامج EndNote يبدأ اما من قائمة ابداء ثم الذهاب للبرنامج او بالضغط بالمواس على ايقونت البرنامج سيظهر بالشكل التالي

(٢) اضغط على الايقونة الخاصة ببرنامج End Note لفتح البرنامج

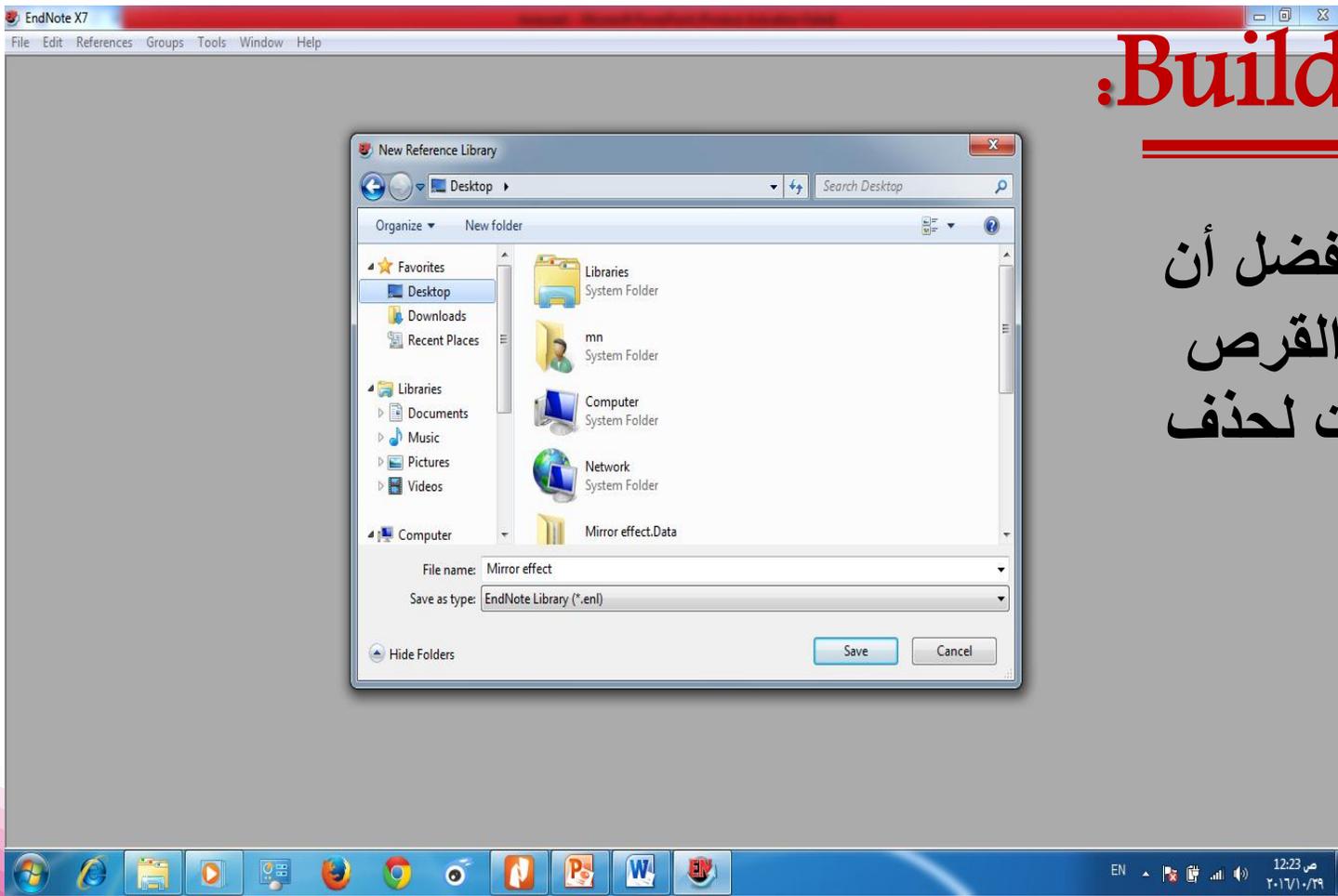
(١) لفتح برنامج End Note اضغط على قائمة ابدأ من الحاسبة الخاصة بك



- New...
- Open
- Close
- Save Ctrl+S
- Save As...
- Save a Copy...
- Revert
- Export...
- Import
- Print... Ctrl+P
- Print Preview
- Print Setup...
- Compressed Library (.enx) ...
- Exit Ctrl+Q

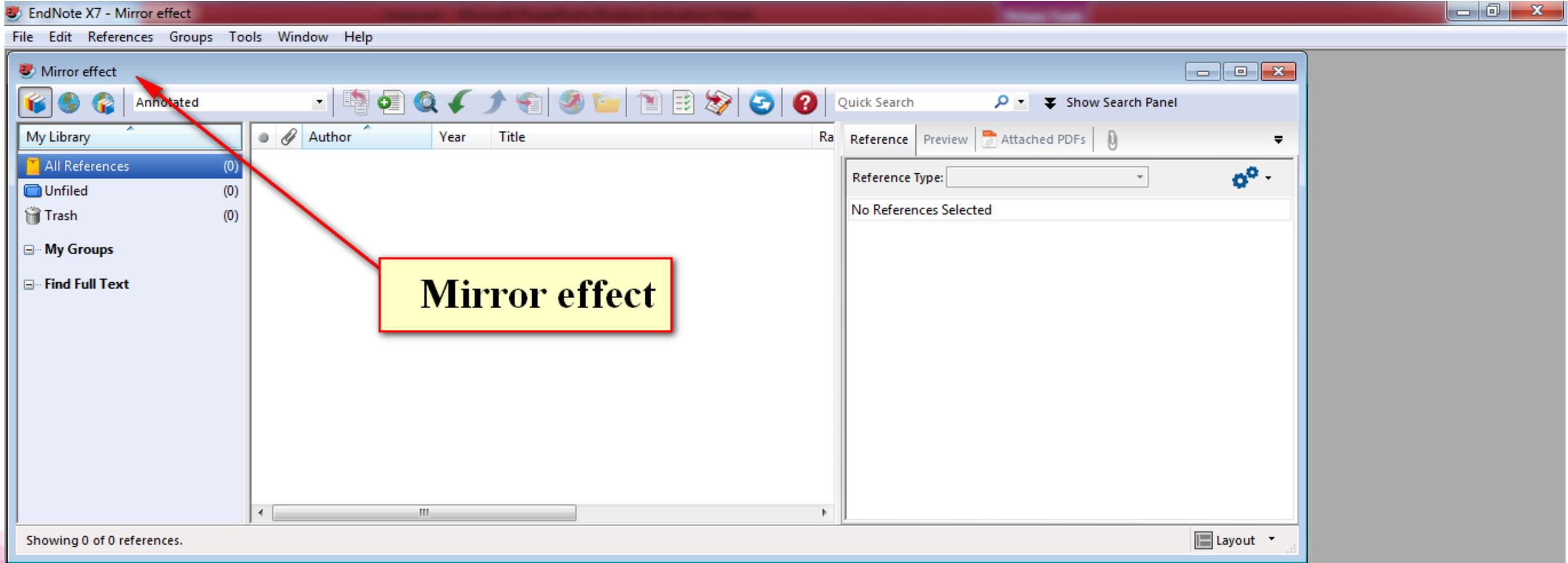
انشاء مكتبة مراجع جديدة اختر ملف ثم جديد





إنشاء المكتبات :Build Libraries

بعد ذلك نحدد اسم ومكان تخزين المكتبة ويفضل أن يكون على أي قرص صلب في جهازك عدا القرص الرئيس C حتى لا تفقد مكتبتك إذا اضطررت لحذف ملفاتك من القرص الرئيس



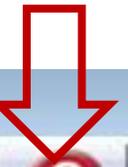
محر البحث الذي من خلاله ممكن البحث عن اي مجلد ضمن المجلدات التي تم ادخالها للبرنامج

The screenshot shows the EndNote software interface. The title bar reads "Study a Scanning Beam Current in Focusing Ion Beam Device of Overcome Mirror Effect". The left sidebar shows "My Library" with "All References (53)", "Unfiled (53)", and "Trash (8)". The main window displays search results for "Search Whole Library". The search criteria are set to "Author", "Year", and "Title", all with "Contains" operators. The results table is as follows:

Author	Year	Title
Abood, T.H	2011	Formal Investigation of the Mirror Effect in SEM
Al-Obaidi, HNA	1991	Design of electromagnetic lenses
Al-Obaidi, HNA	1991	Design of electromagnetic lenses
Al-Obaidi, H.N., ...	2008	PET Mirror Image Characterization
Al-Obaidi, Hassa...	2015	Beam analysis of scanning electron microscope...
Al-Obaidi, Hassa...	2016	Investigation of scanning electron beam para...
Anuntalabhochai...	2001	Ion-beam-induced deoxyribose nucleic acid tr...
Bai, M; Pease, RF...	1999	Charging and discharging of electron beam res...
Balluffi, RW; Go...	1975	Electron microscope studies of grain boundary ...
Belkorissat, R; Jba...	2013	Device intended for measurement of induced tra...

Thomson Reuters
EndNote
Advance your Research and Publish Instantly
Showing 53 of 53 references.

أيقونة المساعدة والتي بها كافة تعاليم التشغيل الخاصة ببرنامج EndNote



The screenshot displays the EndNote software interface. The title bar reads "Study a Scanning Beam Current in Focusing Ion Beam Device of Overcome Mirror Effect". The toolbar includes various icons for file operations and a help icon (a red circle with a question mark) highlighted by a red arrow. The left sidebar shows "My Library" with categories: "All References (53)", "Unfiled (53)", "Trash (8)", "My Groups", and "Find Full Text". The main window features a search bar with "Search Whole Library" and checkboxes for "Match Case" and "Match Word". Below the search bar are three search criteria: "Author", "Year", and "Title", each with a "Contains" dropdown and an input field. The reference list below has columns for "Author", "Year", and "Title". The selected reference is:

Author	Year	Title
Abood, T.H	2011	Formal Investigation of the Mirror Effect in SEM
Al-Obaidi, HNA	1991	Design of electromagnetic lenses
Al-Obaidi, HNA	1991	Design of electromagnetic lenses
Al-Obaidi, H.N., ...	2008	PET Mirror Image Characterization
Al-Obaidi, Hassa...	2015	Beam analysis of scanning electron microscope...
Al-Obaidi, Hassa...	2016	Investigation of scanning electron beam para...
Anuntalabhochai...	2001	Ion-beam-induced deoxyribose nucleic acid tr...
Bai, M; Pease, RF...	1999	Charging and discharging of electron beam res...
Balluffi, RW; Go...	1975	Electron microscope studies of grain boundary ...
Belkorissat, R; Jba...	2013	Device intended for measurement of induced tra...

At the bottom left, the Thomson Reuters logo and the text "EndNote Advance your Research and Publish Instantly Showing 53 of 53 references." are visible.

مزامنة المكتبة مع أجهزة أخرى أو مكتبك على الانترنت



للخروج من مكتبة ال EndNote.

للخروج من برنامج ال EndNote نضغط على زر **File** ثم **Exit**.



1

The screenshot shows the EndNote application interface. The 'File' menu is open, displaying options such as 'New...', 'Open', 'Close Library', 'Save', 'Save As...', 'Save a Copy...', 'Revert', 'Export...', 'Import', 'Print...', 'Print Preview', 'Print Setup...', 'Compressed Library (.enlx) ...', and 'Exit'. A search results table is visible in the background, with the following data:

Author	Year	Title
Wood, T.H	2011	Formal Investigation of the Mirror Effect in SEM
Obaidi, HNA	1991	Design of electromagnetic lenses
Obaidi, HNA	1991	Design of electromagnetic lenses
Obaidi, H.N., ...	2008	PET Mirror Image Characterization
Obaidi, Hassa...	2015	Beam analysis of scanning electron microscope...
Obaidi, Hassa...	2016	Investigation of scanning electron beam para...
untalabhochai...	2001	Ion-beam-induced deoxyribose nucleic acid tr...
Bai, M; Pease, RF...	1999	Charging and discharging of electron beam res...
Balluffi, RW; Go...	1975	Electron microscope studies of grain boundary ...
Belkorissat, R; Jba...	2013	Device intended for measurement of induced tra...

2

للحفظ مكتبة المراجع :

لحفظ مكتبة المراجع من برنامج الـ **EndNote** نضغط على زر **File** ثم **Compressed Library**



1

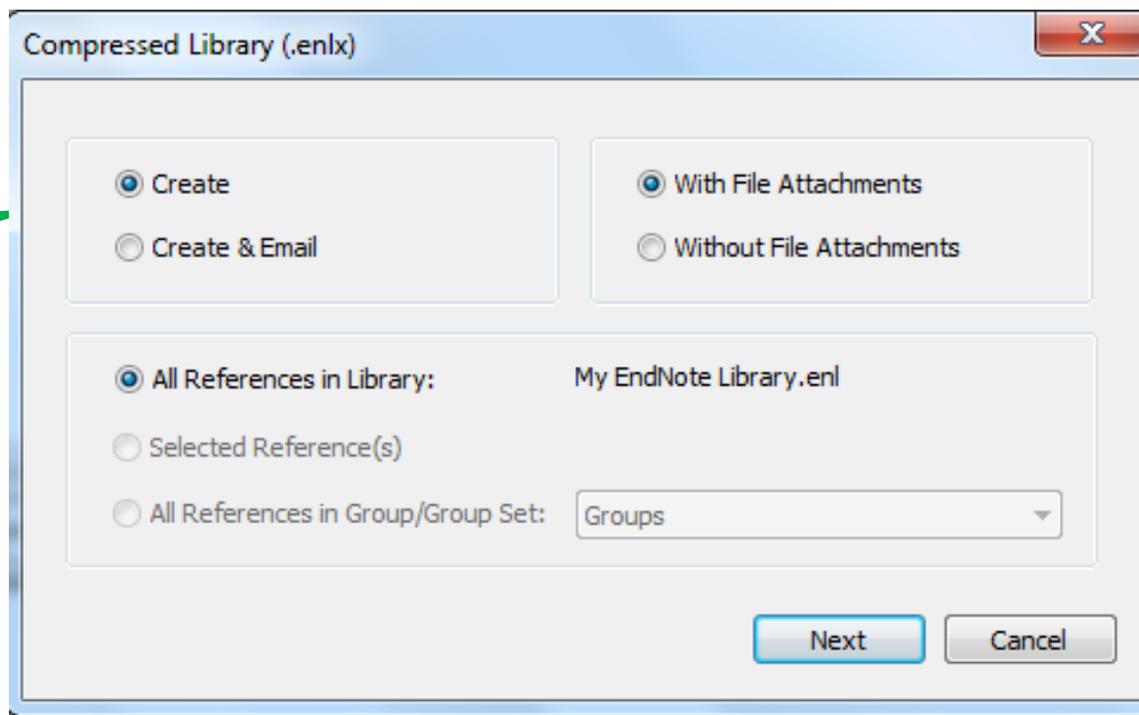
The screenshot shows the EndNote application window. The 'File' menu is open, with a green callout bubble containing the number '1' pointing to the menu header. The menu items include: New..., Open, Close Library (Ctrl+W), Save (Ctrl+S), Save As..., Save a Copy..., Revert, Export..., Import, Print... (Ctrl+P), Print Preview, Print Setup..., Compressed Library (.enlx) ... (with a green callout bubble containing the number '2' pointing to it), and Exit (Ctrl+Q). The main window displays a search results table with columns for Author, Year, and Title. The search criteria are: Author: Contains, Year: Contains, Title: Contains. The results table is as follows:

Author	Year	Title
Wood, T.H	2011	Formal Investigation of the Mirror Effect in SEM
Obaidi, HNA	1991	Design of electromagnetic lenses
Obaidi, HNA	1991	Design of electromagnetic lenses
Obaidi, H.N., ...	2008	PET Mirror Image Characterization
Obaidi, Hassa...	2015	Beam analysis of scanning electron microscope...
Obaidi, Hassa...	2016	Investigation of scanning electron beam para...
untalabhochai...	2001	Ion-beam-induced deoxyribose nucleic acid tr...
Bai, M; Pease, RF...	1999	Charging and discharging of electron beam res...
Balluffi, RW; Go...	1975	Electron microscope studies of grain boundary ...
Belkorissat, R; Jba...	2013	Device intended for measurement of induced tra...

At the bottom of the window, it says 'Showing 53 of 53 references.'

بعد ذلك وخطوة ثالثة ستظهر لنا الشاشة التالية ومن خلالها نضبط الاعدادات تماما كالتي في الشاشة التالية ثم نضغط **Next**.

3



ملاحظات مهمة:

أسم ملف المكتبة الخاصة ببرنامج **EndNote** يعطي تلقائيا أمتداد **.enl**. لمكتبة الـ **EndNote**.

كل مكتبة لديها ملف من أمتداد **.enl** ومجلد للبيانات يحتوي صور ومجموعات ملفات أخرى مخزنة داخل مجرد البيانات والذي يرتبط بكل مكتبة ويخزن في نفس المجلد كملف رئيس داخل المكتبة.

من الضروري عندة تحريك اونسخ او اعادة تسمية بعض الملفات ان تقوم بنفس العملية في ملف الـ **.enl** ومجلد البيانات في المقابل وذلك لكل مكتبة لبرنامج الـ **EndNote**.



اعداد خانة متصفح Google scholar لعرض خانة الاسترجاع:

من اهم واسرع الطرق لاستجلاب بيانات المراجع من المكتبات والتي توفر عنك عناء كتابة المراجع يدويا وهي سهلة الاستخدام ولكن يجب عليك أولا اعداد الباحث العلمي لذلك نذهب الى المتصفح ونكتب بالبحث الباحث العلمي باللغة العربي او Google scholar _ باللغة الانكليزية سيظهر لنا واجهة الباحث العلمي بالشكل الاتي:



Y google scholar - Yahoo Se... x Google Scholar x +

https://scholar.google.com

Safe Search ON

Web Images More... Sign in

My library My Citations Alerts Metrics Settings

Google
Scholar

Articles include patents Case law

Stand on the shoulders of giants

نضفط على ضبط

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About Google Scholar Privacy Terms

EN 12:43 ٢٠١٦/١٠/٢٩



Scholar Settings

Search results

Languages

Library links

Account

Button

Collections

- Search articles (include patents).
 Search case law.

Results per page

10

Google's default (10 results) provides the fastest results.

Where results open

- Open each selected result in a new browser window

Bibliography manager

- Don't show any citation import links.
 Show links to import citations into

BibTeX
EndNote
RefMan
RefWorks

https://scholar.google.com

Search

My library

My Citations

My updates

Alerts

Metrics

Settings



1



2



3



4

Save

Cancel

To retain settings, you must turn on cookies.

بعد البحث عن مرجع معين قم بالضغط على (استيراد الى EndNote) فيظهر لك مربع حوار فتح بيانات المرجع وحفظها مباشرة في الـ EndNote.

The screenshot shows a Google Scholar search page. The search bar contains the text "electron mirror effect". A red arrow points to the search bar, and another red arrow points to the search button. The page shows the Google Scholar logo, navigation links (My library, My Citations, Alerts, Metrics, Settings), and the search results section with the text "Stand on the shoulders of giants". The Windows taskbar is visible at the bottom with various application icons.

Thomson Reuters
EndNote
Advance your Research and Publish Instantly

- Articles
- Case law
- My library

- Any time
- Since 2016
- Since 2015
- Since 2012
- Custom range...

- Sort by relevance
- Sort by date

- include patents
- include citations

- Create alert

[PDF] An anomalous contrast in scanning **electron** microscopy of insulators: The pseudo-**mirror effect**
M Belhaj, O Jbara, S Odof, K Msellak... - ... -NEW YORK AND ..., 2000 - academia.edu
Summary: In a scanning **electron** microscope (SEM), **electron**-beam irradiation of insulators may induce a strong electric field, due to the trapping of charges within the specimen interaction volume. On one hand, this field modifies the trajectories of the beam of ...
Cited by 32 Related articles All 7 versions **Import into EndNote** Save More

[PDF] academia.edu

On the magnetic **mirror effect** in Hall thrusters
M Keidar, ID Boyd - Applied Physics Letters, 2005 - scitation.aip.org
... about the potential distribution and, therefore, most predictions are limited to simplified cases.7,11-14 In this Letter we attempt to develop a more general for- mulation for the potential distribution in a Hall thruster tak- ing into account the magnetic **mirror effect** on the **electron** ...
Cited by 62 Related articles All 6 versions Import into EndNote Save More

[PDF] umich.edu

Mirror instability with finite **electron** temperature effects
OA Pokhotelov, MA Balikhin... - Journal of ..., 2000 - Wiley Online Library
... According to (14) this change in the instability growth rate appears because when a positive **electron** temper- a.ture anisotropy is introduced into the plasma, the in- crease in the **electron** temperature enhances the **electron mirror effect** (the second term on the right-hand side of ...
Cited by 51 Related articles All 4 versions Import into EndNote Save More

[PDF] wiley.com

A theoretical study of the hyperbolic **electron mirror** as a correcting element for spherical and chromatic aberration in **electron** optics
GF Rempfer - Journal of Applied Physics, 1990 - scitation.aip.org
... The **effect** of the aperture is to create a thin diverging aperture lens at the termination of the hyperbolic field. The properties of the **mirror** are calculated analytically. The problem of separating the **electron** beam incident on the mirror from the beam returning from the mirror without

Articles

[\[PDF\] An anomalous contrast in scanning pseudo-mirror effect](#)
M Belhaj, O Jbara, S Odof, K Msellak... - ... -N
Summary: In a scanning **electron** microscope may induce a strong electric field, due to the tra interaction volume. On one hand, this field mod Cited by 32 Related articles All 7 versions

[On the magnetic mirror effect in Hall](#)
M Keidar, ID Boyd - Applied Physics Letters, 2...
... about the potential distribution and, therefore cases.7,11-14 In this Letter we attempt to deve distribution in a Hall thruster tak- ing into accou Cited by 62 Related articles All 6 versions

[Mirror instability with finite electron t](#)
OA Pokhotelov, MA Balikhin... - Journal of ..., 2...
... According to (14) this change in the instabilit **electron** temper- a- ture anisotropy is introduced into the plasma, the in- crease in the **electron** temperature enhances the **electron mirror effect** (the second term on the right-hand side of ... Cited by 51 Related articles All 4 versions Import into EndNote Save More

[A theoretical study of the hyperbolic electron mirror as a correcting element for spherical and chromatic aberration in electron optics](#)
GF Rempfer - Journal of Applied Physics, 1990 - scitation.aip.org
... The **effect** of the aperture is to create a thin diverging aperture lens at the termination of the hyperbolic field. The properties of the **mirror** are calculated analytically. The problem of separating the **electron** beam incident on the mirror from the beam returning from the lens with...

include patents
include citations
Create alert

Opening scholar.enw

You have chosen to open:

 scholar.enw

1 which is: EndNote Import File (188 bytes)
from: https://scholar.google.com.my

What should Firefox do with this file?

Open with EndNote X7.5 (Bld 9325) (default)

Save File

Do this automatically for files like this from now on.

2 → OK Cancel

EndNote X7 - Mirror effect

File Edit References Groups Tools Window Help

Mirror effect

Numbered Quick Search Show Search Panel

Author	Year	Title	Rating	Journal	Last Updated	Reference Type
Belhaj, M; Jbara, ...	2000	An anomalous contrast in scanning electron mi...		SCANNING-NE...	29/10/2016	Journal Article

My Library

- All References (1)
- Imported References (1)
- Unfiled (1)
- Trash (1)
- My Groups
- Find Full Text

Reference Preview

1. Belhaj, M, et al., *An anomalous contrast in scanning electron microscopy of insulators: The pseudo-mirror effect*. SCANNING-NEW YORK AND BADEN BADEN THEN MAHWAH-, 2000. 22(6): p. 352-356.

Attached PDFs

There are no PDFs attached to this reference.

Showing 1 of 1 references in Group. (All References: 1)

Layout



ملاحظة: عندما تبحث في المكتبات الرقمية وقواعد البيانات ستجد دائما مع كل ورقة علمية وصلة لإدراج صيغة المصدر في برامج إدارة المراجع مثل EndNote، هذه الوصلة تسمى Citation عند الضغط عليها ستحصل على ملف افتحه أو خزنه في أي مكان معروف لديك وليكن سطح المكتب مثلا وبعد أن تفتحه سيتم تخزين بيانات المرجع في EndNote.





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Advanced

Article outline Show full outline

- Abstract
- MSC
- Keywords
- 1. Introduction
- 2. A semi-smooth Newton method fo...
- 3. Application to quadratic program...
- 4. Computational results
- 5. Conclusions
- Acknowledgments
- References

Figures and tables

- Table 1
- Table 2
- Table 3



A semi-smooth Newton method for quadratic...

J.G. Barrios^{a,*}

Show more

Choose an option

Check if you have access through your institution or your institution's proxy server

Check access

Export citations

You have selected 1 citation for export.

Help

Direct export

Save to Mendeley

Save to RefWorks

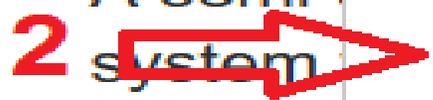
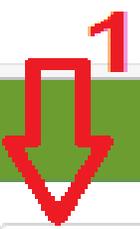
Export file

- RIS (for EndNote, Reference Manager, ProCite)
- BibTeX
- Text

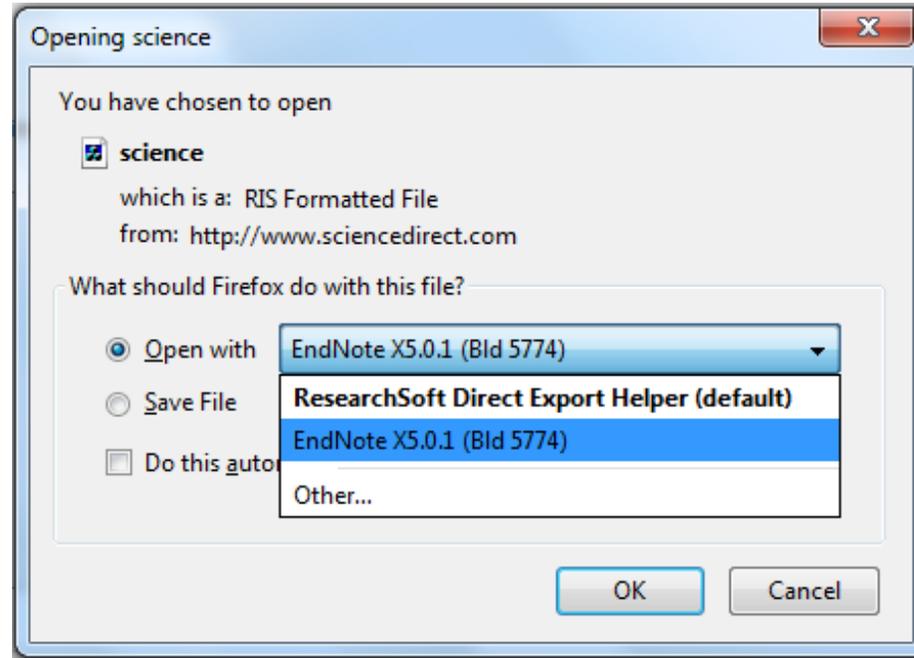
Content

- Citation Only
- Citation and Abstract

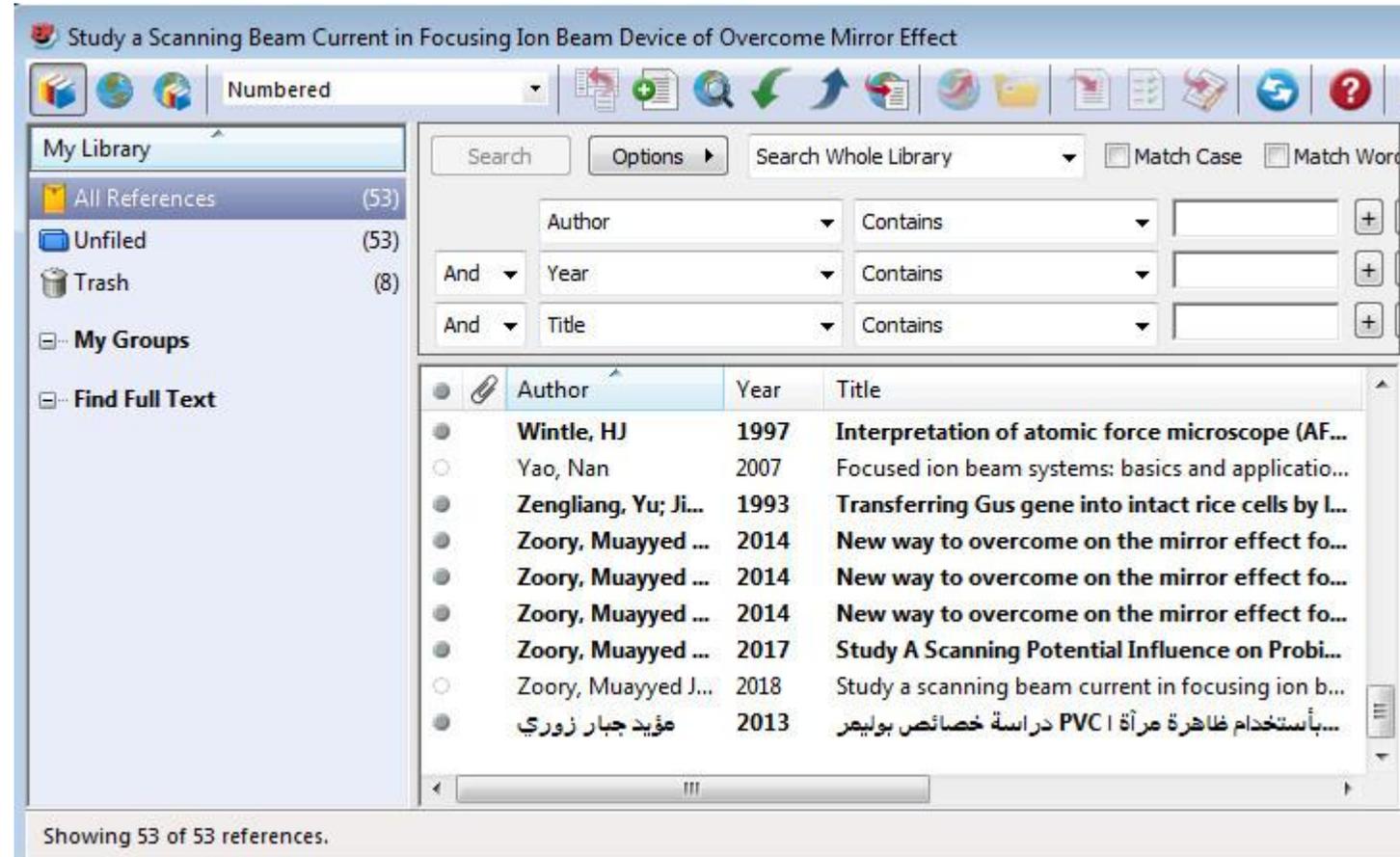
Export



وبعد ذلك سيظهر الشاشة التالية ولتصدير المرجع الى برنامج الـ EndNote نقوم باضغط على **Open With** ومن ثم **EndNote** وأن لم يكن برنامج الـ **EndNote** موجود نختر **Other** ثم **EndNote** ثم **Ok**.



بعد عمل الخطوة السابقة سينتقل مباشرة الى برنامج الـ EndNote



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Editorial

Journal of the Economic Science Association
December 2015, Volume 1, Issue 2, pp 127-131

First online: 07 December 2015

Editors' preface: statistics, replications and null results

Nikos Nikiforakis, Robert Slonim

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1. Belhaj, M., et al., *An anomalous contrast in scanning electron microscopy of insulators: The pseudo-mirror effect*. SCANNING-NEW YORK AND BADEN BADEN THEN MAHWAH-, 2000. 22(6): p. 352-356.

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New way to overcome on the mirror effect for imaging the surface of insulator

Muayyed Jabar Zoory
Department of Physics / College of Science / Al-Mustansiriyah Univ., Iraq-Baghdad

Abstract: This work use the ion beam of a focused ion beam (FIB)/scanning electron microscope (SEM) microscope to investigate the ion mirror effect (IME) on the poly-oxetyl-6-sulfate (POM-6). From study of parameters that influence the ion mirror effect (IME), we find easy and fast way to imaging the surface of the sample. To our knowledge this is the first observation of what can be called Imaging by-Different Currents (IDC). This way is based on the measurement of the trapped charge (Q_t) as well as to evaluate the charge lossing (Q_{loss}) through imaging the ion mirror effect (IME) by using different currents (I_{sc}). We observed begin overcome on the mirror effect when $Q_{sc} \geq Q_t$ and it allow to imaging the surface of insulator. This way (IDC) enables of imaging the surface of the sample in all the scanning potential of imaging (V_{sc}), all the scanning

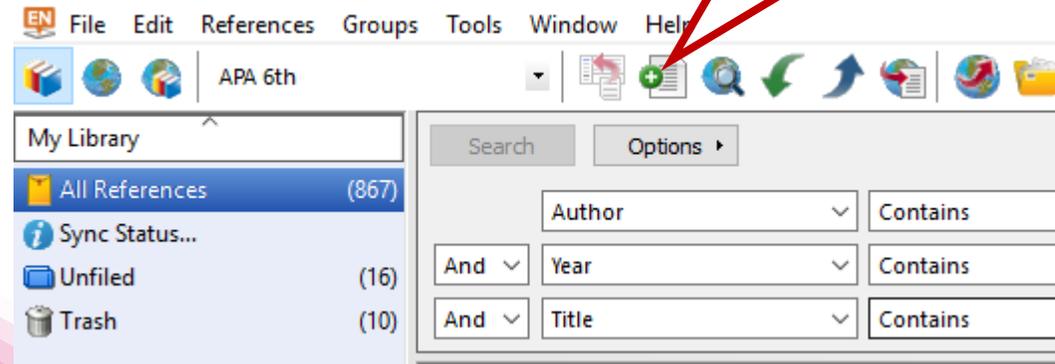
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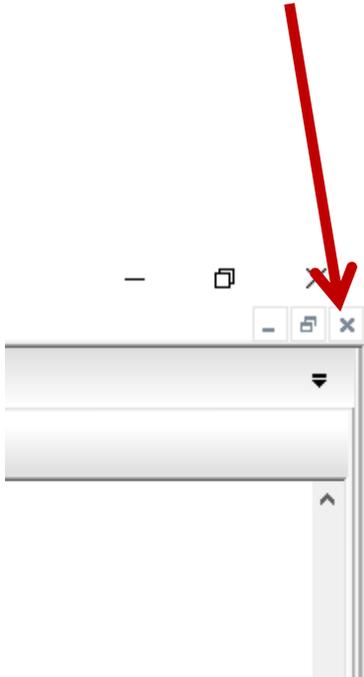
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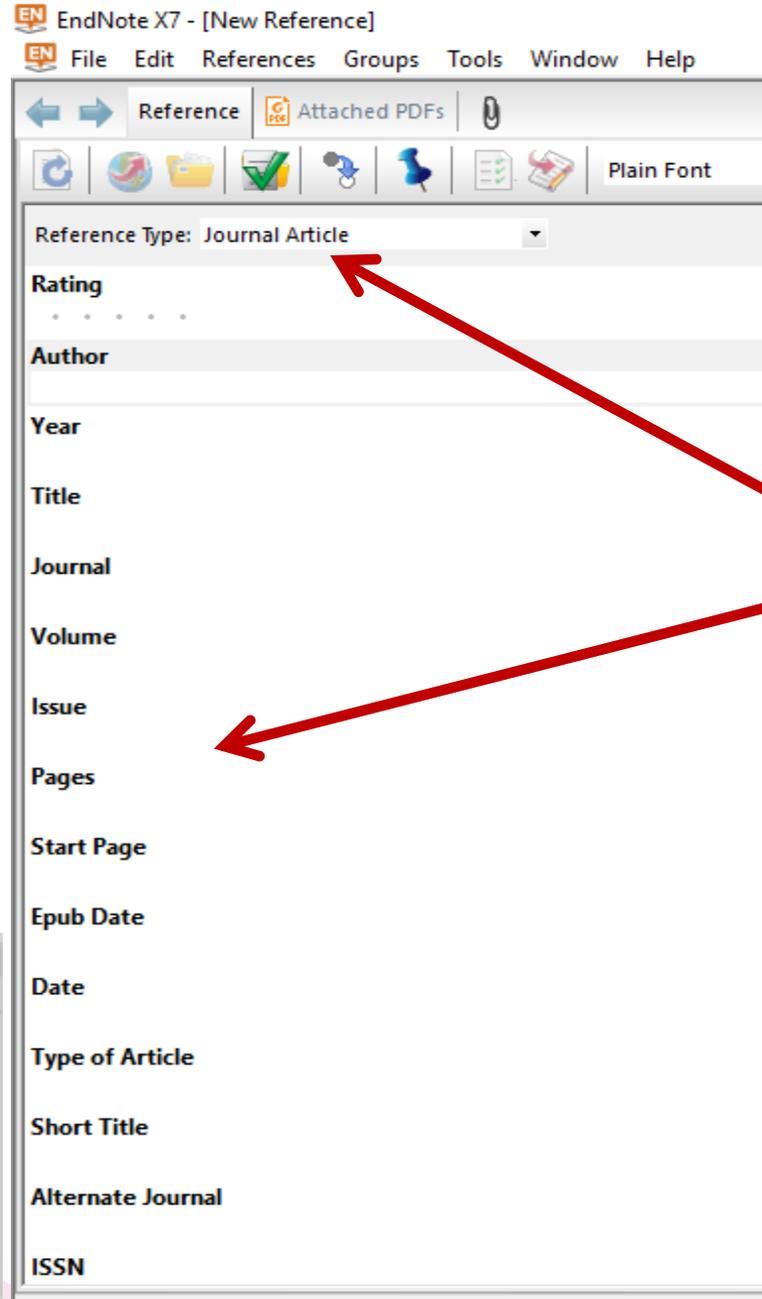
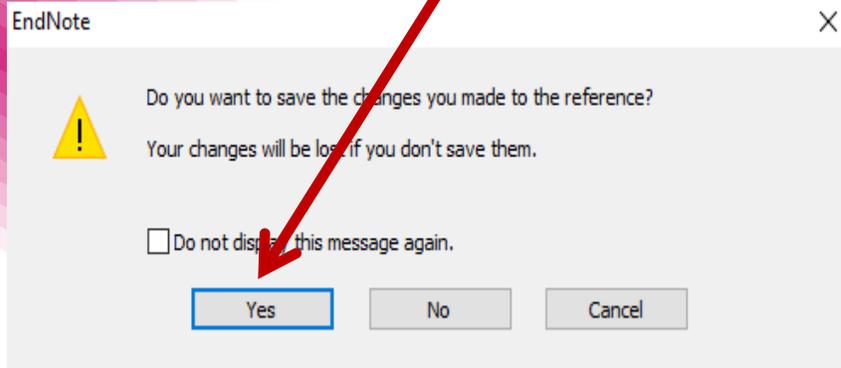
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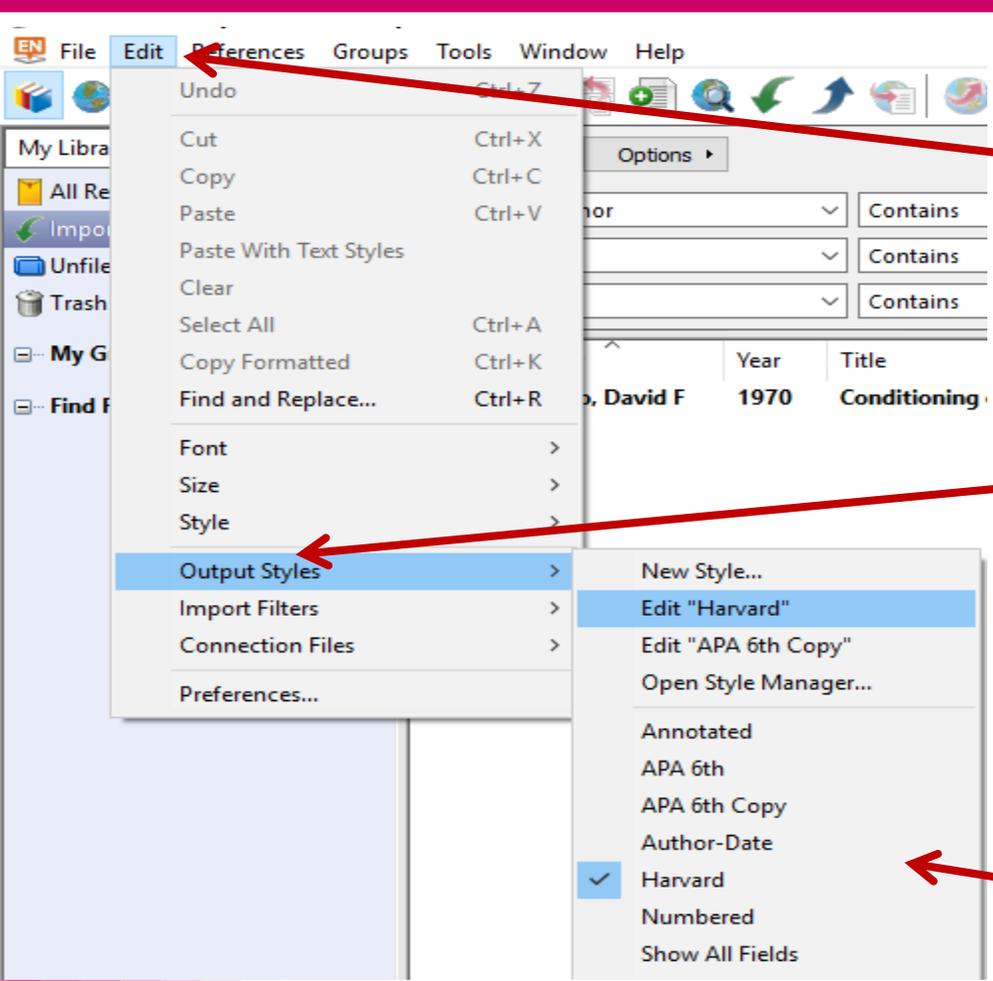
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Study a Scanning Beam Current in Focusing Ion Beam Device of Overcome Mirror Effect

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Al-Obaidi, HNA	1991	Design of electromagnetic lenses
Al-Obaidi, HNA	1991	Design of electromagnetic lenses
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Al-Obaidi, Hassa...	2015	Beam analysis of scanning electron microscope...
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Study a Scanning Potential Influence on Probing Ion Trajectory in Sense of Ion Mirror Effects [Compatibility Mode] - Microsoft Word (Product Activation Failed)

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The insulating sample is irradiated with electron or ions in SEM/FIB at high voltage. Negative or positive charge trapped in the insulator during the injection produces an excess charge which is spatially trapped within the sample generating distortions in the electrons or ions paths. To get a mirror effect, then later process of the sample rasters with electron or ion beam of energy smaller than the surface potential energy of the sample surface.

ثانياً: نضع الموشور في المكان المناسب

ثالثاً: نضغط على زر ادراج الاستشهاد ثم نختار ادراج الاستشهاد المحدد (insert selected citation)

The probing ion which has a small kinetic energy which will be reflected in the FIB chamber due to repulsion force between the trapped ions on the surface and the probing ion. This effect depends on the probing ion direction and beam parameters. The reflected backward ions will bombard the FIB chamber inner walls and cause to release new secondary electrons that their detection leads to image the inside chamber space which characteristics depend on the chamber materials and scanning potential, see Fig. 1. The secondary electrons are then detected by the Everhard-Tomley Detector (ETD) within the chamber to form the ion image of the FIB chamber itself.

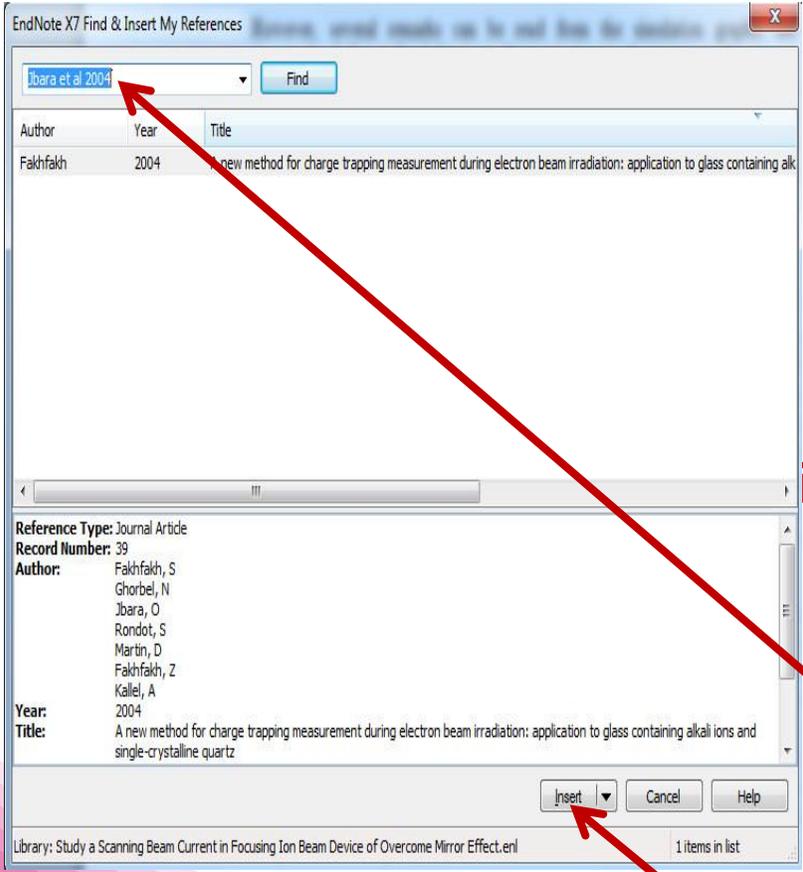
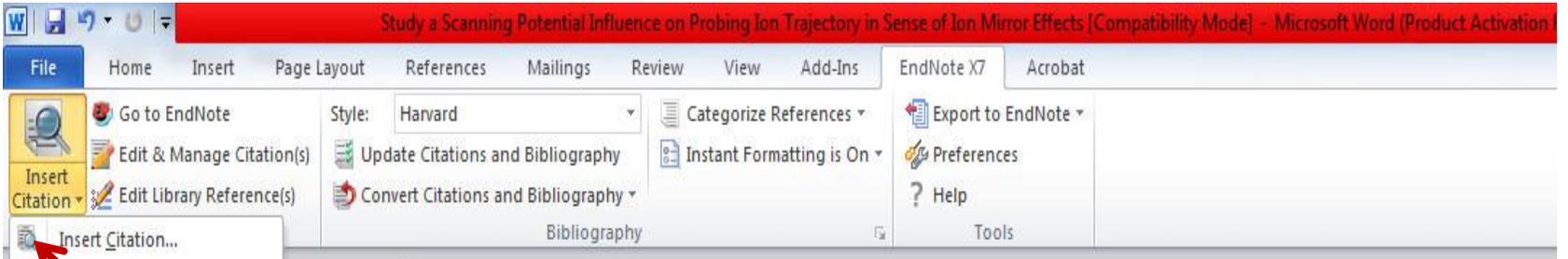
Fig. 1 shows a scheme of the Ion Mirror Effect (IME), it is clear that most of the parameters influencing the production of the ion mirror image (IMI) is the scanning potential, so the present work studies the effect of this parameter on the probing ion path by building a mathematical model for the ion path.

Page: 2 of 15 Words: 4,026 English (U.S.)

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2 . من داخل مستند الورد نضع المؤشر في المكان المناسب ثم نضغط على زر ادراج استشهاد **insert citation** ثم نكتب اسم المرجع أو المؤلف ونختار المرجع المناسب ثم ادراج





ثانياً: نضغط على زر ادراج استشهاد (insert citation)

أولاً: نضع المؤشر في المكان المناسب

However, several remarks can be read from the simulation graphs, the scattering angle δ for paths belong to the same image decreases as the impact parameter K (strictly speaking α) increases. In fact, since the coulomb force between the probing ion and the trapped charges has an inverse proportional with the quadratic of separated distance. Therefore, as α increased for such a path the radial distance ($Z(\theta)$) between the ion and trapped charge gets rise increases, and hence the interaction strength becomes weaker and vice versa. In other word, one may say that, the outer probing ion, in a scanning beam, will scan distant regions of the chamber's ceiling, while the inner ones hit the nearby regions (Bai et al., 1999).

The Fig.3 reveals more details of the ceiling chamber in the image of $V_{sc}=6$ kV in comparison with its counterpart of $V_{sc}=8, 10$ and 12 kV. Furthermore, opportunities for the probing ions to reach the sample regions increase as the scanning potential (V_{sc}) increased. According to the last discussed result, that is why some parts of the sample's regions which are not irradiated (free of charges) appear in the third image and the fourth image ($V_{sc}=10$ kV and $V_{sc}=12$ kV), while it does not exist in the first ($V_{sc}=6$ kV) and second images ($V_{sc}=8$ kV). For more carification, the inset figures have been added to Tables (1, 2, 3 and 4), where (x_{min}, y_{min}) is a point of shorter distance from the trapped charge before totally reflected, while (x_{max}, y_{max}) is a point of maximum distance from the trapped charge after totally reflected inside FIB.

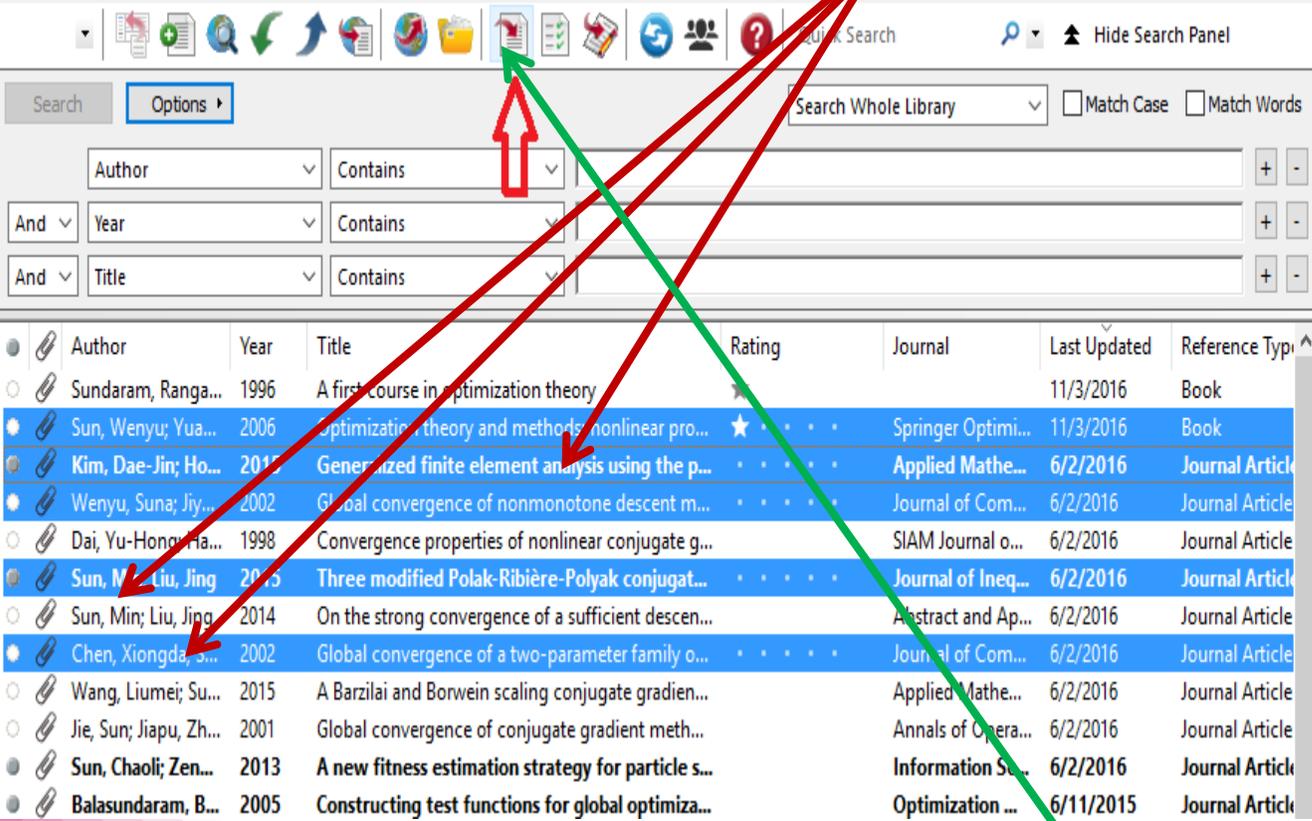


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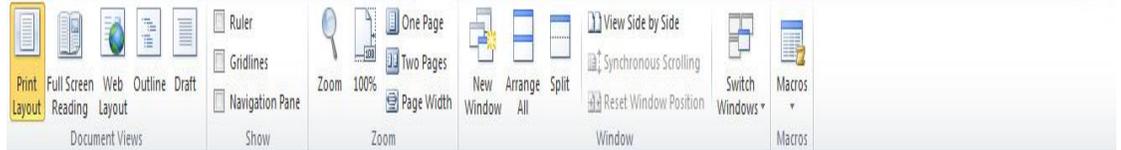
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**ثالثاً: ثم نضغط على زر
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(citation)**



The relation between trapped charge (Q_i) with a relative dielectric constant (ϵ_r), is equal to the charge placed in free space $2Q_i/(\epsilon_r+1)$ (Jackson, 1999). Thus, the repulsion force between the probing ion in FIB and the trapped ions embedded in a dielectric sample inside chamber FIB takes the form (Jackson, 1999)

$$F(z) = \frac{A_\infty e^+ Q_i}{z^2} \tag{1}$$

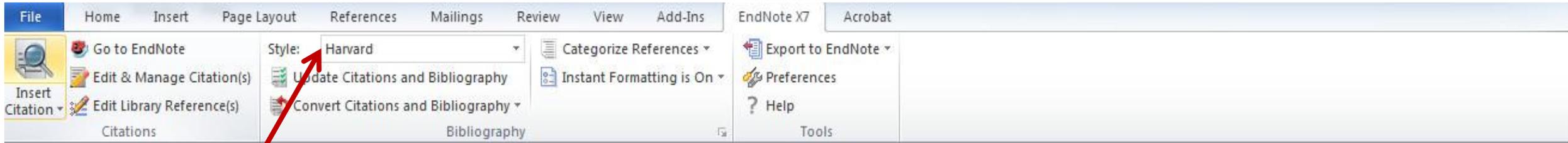
In which A_∞ is a constant defined by $A_\infty = 1/2\pi\epsilon_0(\epsilon_r + 1)$, ϵ_0 is permittivity of free space and Z is the distance of the probing ion from the trapped charge (Q_i). We will start from Newton's second law in radial and transverse direction can be appropriate to study the path probing ion trajectory in asense of ion mirror effects.

$$m_i \left[\frac{d^2 z}{dt^2} - z \left(\frac{d\theta}{dt} \right)^2 \right] = \frac{A_\infty e^+ Q_i}{z^2} \tag{2}$$

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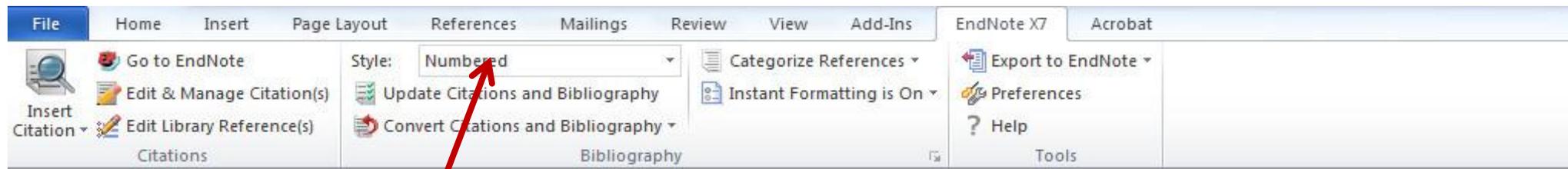
The Focus Ion Beam (FIB) apparatus is an important consequence for analyzing insulator materials. The results have shown that the assumption of the point charge distribution which has been adopted in this work reveal an excellent interpretation of the ion mirror images. Additionally, it is often possible to locate the reflected-back probing ions by means the mathematics presented in this investigation. Consequently, one may easily recognize what path, that probing ions will follow, can enter column diaphragm or will reach detectors (Al-Obaidi, 1991).

Additional conclusion remarks can be recorded for this study, for instance the reflected points (a minimum distance from the surface) representing equipotential surfaces, from the reflected points can deduce the maximum accelerating potential (V_{sc}^{max}) for the different incidence angle, moreover, excellent accuracy in calculating the number of ions (or charges) can be accumulated at a surface of an insulator at the different work conditions.

Reference

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- ANTON, H., BIVENS, I. & DAVIS, S. 2002. *Calculus 7th ed.*, John Wiley & Sons, Inc., USA.,

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like a variation on the image contrast, image aberration, and magnification difference [3]. These influences have been discovered inside microscope SEM, known as the "charging effects" [4]. The use of the SEM allows the charging of insulating materials to be controlled and also enable the very local charging and discharging processes to be monitored and investigated [5]. These effects have been observed and studied by a number of authors and can be found through the following references[6-8]. It is important to mention, that it is observed a similar effect by using ion beam irradiation instead of electron beam inside microscope SEM/FIB for the same sample [9, 10]. Great effort has been devoted to ensure that this influence does not occur. One can create a mirror electron and benefit from this effect and use it as a tool to obtain information about the model dielectric materials properties [11]. Recently, presented a theoretical expression is presented to describe the scanning electron motion upon a charged sample and producing mirror image, and to present several expressions to study the most important factors that affect probing electron motion [12].

Reference

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4. Sikorski, J., et al., *A new preparation technique for examination of polymers in the scanning electron microscope*. Journal of Physics E: Scientific Instruments, 1968. 1(1): p. 29.
5. Ghorbel, N., A. Kallel, and G. Damamme, *Modeling electric charge distribution on insulator under electron bombardment: Case of rectangular surface implantation*.

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2. Ghorbel, N., et al. *Space charge in irradiated insulators: mirror method*. in *Electrets, 2005. ISE-12. 2005 12th International Symposium on*. 2005. IEEE.
3. Okai, N. and Y. Sohda, *Study on image drift induced by charging during observation by scanning electron microscope*. Japanese Journal of Applied Physics, 2012. 51(6S): p. 06FB11.
4. Sikorski, J., et al., *A new preparation technique for examination of polymers in the scanning electron microscope*. Journal of Physics E: Scientific Instruments, 1968. 1(1): p. 29.
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12. Al-Obaidi, H.N. and I.H. Khaleel, *Computational investigation of electron path inside*

التوصيات

1. توفير نسخة محدثة ومجانية لطلبة الدراسات العليا والبحثية
2. إنشاء دورات تدريبية بشكل دوري لطلبة الدراسات العليا والخريجين لمواكبة البرامج والاصدارات الحديثة
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