



Tabriz University of
Medical Sciences

مدیریت منابع (نرم افزار اندنوت)

دکتر زهرا کریم زاده

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مدیریت منابع علمی و استناددهی در پژوهش

- ❖ در پژوهش‌های علمی، نگارش مقاله، پایان‌نامه و پروپوزال بدون استفاده از منابع معتبر امکان‌پذیر نیست.
- ❖ هر پژوهش علمی بر پایه‌ی مطالعات و یافته‌های پیشین شکل می‌گیرد و اعتبار آن به شیوه‌ی صحیح ارجاع‌دهی و استناد به منابع وابسته است.
- ❖ با افزایش حجم تولیدات علمی و رشد پایگاه‌های اطلاعاتی، مدیریت منابع پژوهشی به‌صورت دستی دشوار، زمان‌بر و همراه با خطا خواهد بود.
- ❖ به همین دلیل استفاده از نرم‌افزارهای مدیریت منابع به یک ضرورت برای پژوهشگران تبدیل شده است.

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هر پژوهش علمی ادامه‌ی مسیر پژوهشگران پیشین است.

ارجاع‌دهی صحیح باعث می‌شود:

- اصالت علمی حفظ شود
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□ هر جمله یا ایده‌ای که متعلق به شما نیست، باید رفرنس داشته باشد.

چرا به نرم افزار مدیریت منابع نیاز داریم

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استفاده از نرم افزارهای مدیریت منابع این فرایند را دقیق، سریع و استاندارد می کند.

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با هر تغییر در متن:

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Historical perspective

Nanomaterial based PVA nanocomposite hydrogels for biomedical sensing: Advances toward designing the ideal flexible/wearable nanoprobe

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ABSTRACT

In today's world, the progress of wearable tools has gained increasing momentum. Notably, the demand for stretchable strain sensors has considerably increased owing to various potential and emerging applications like human motion monitoring, soft robotics, prosthetics, and electronic skin. Hydrogels possess excellent biocompatibility, flexibility, and stretchability that render them ideal candidates for flexible/wearable substrates. Among them, enormous efforts were focused on the progress of polyvinyl alcohol (PVA) hydrogels to realize multifunctional wearable sensing through using additives/nanofillers/functional groups to modify the hydrogel network. Herein, this review offers an up-to-date and comprehensive summary of the research progress of PVA hydrogel-based wearable sensors in view of their properties, strain sensory efficiency, and potential applications, followed by specifically highlighting their probes using metallic/non-metallic, liquid metal (LM), 2D materials, bio-nanomaterials, and polymer nanofillers. Indeed, flexible electrodes and strain/pressure sensing performance of designed PVA hydrogels for their effective sensing are described. The representative cases are carefully selected and discussed regarding the construction, merits and demerits, respectively. Finally, the necessity and requirements for future advances of conductive and stretchable hydrogels engaged in the wearable strain sensors are also presented, followed by opportunities and challenges.

1. Introduction

Nowadays, highly flexible soft electronics nanoprobe that can monitor health motions and conditions have attracted considerable attention for potential applications in soft robotics and wearable tools due to their comfort and convenient utilization [1,2]. Indeed, these sensors have capable of converting external stimuli like pressure and tensile to electrical signals such as voltage, capacitance, current, and resistance [3,4]. Skin-like wearable sensors are usually assembled from elastomers and conductive nanomaterials such as inorganic conductive particles, metal nanowires (NWs), carbon nanotubes (CNTs), and graphene, however, uniformly dispersion of fillers in the elastomer is problematic. As well, friction could occur between the conductive filler and the elastomer bringing on stress concentration, which significantly damages the mechanical property of the probe [5]. Therefore, introducing intrinsically conductive and flexible polymer-conductive

nanomaterials with stability, biocompatibility, and superb mechanical properties has attracted people's attention [6,7]. In this regard, hydrogel-based flexible/wearable nanoprobe different from the rigid elastomer-based probes exhibit great potential in the sensory field by easily tuning the mechanical properties, network structure, and chemistry of the water-containing hydrogels to match those of bio-tissues, laying the foundation of designing of smart skins and implantable devices [8,9]. In addition, hydrogels are also one of the most reliable materials for other applications e.g. wound dressing, tissue engineering, drug delivery, water treatment [10,11], separation filter [12] rather than sensing [13] due to abundant hydrophilic intermolecular space for the entrance of other materials [14].

PVA hydrogel is a synthetic polymer that has sparked great interest in biomedical fields regarding its advantages such as biocompatibility, nontoxicity, biodegradability, hydrophilicity, and chemical stability. Significantly, the myriad of -OH groups on PVA could result in the

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stick to the skin in the detection process but also promote the reception of the ion current generated in the cells through the hydrating cuticle of the skin epidermis. At this state, Wang and coworkers [175] fabricated a flexible conductive electrode using PVA-based PEDOT: PSS/cellulose hydrogel to monitor the ECG signals. For that, PEDOT: PSS was formed in the process of oxidative polymerization of PVA and cellulose substrates. The fibers with micron-level and linear at the beginning of dissolution had a uniform thickness and was orderly arranged. Also, the change in gel film from white to black during the oxidation process over time has been observed. By controlling the PEDOT content, it has been revealed that the conductivity of the composite hydrogel could be accurately optimized. Also, no skin irritation was detected during the signal measurement. This strategy could promisingly explore the application of PEDOT: PSS/cellulose/PVA film in constructing eco-friendly conductive electrodes for ECG monitoring due to admirable features of stability, comfortable contact with skin, low skin contact impedance, and flexibility.

3. Conclusions and outlook

Recently, the progress of nanocomposite hydrogel as an effective nano-platforms for monitoring human motion and electronic skin has witnessed excessive advancement. Herein, we aim to offer a comprehensive review discussing concepts and current progress in the development of PVA nanocomposite hydrogel-based sensors, involving design strategies, preparation approaches, and their applications. PVA nanocomposite hydrogels are emerging newfangled materials that possess the properties of both soft matter gel and nanomaterials. Hence, a number of studies comprising synthesis and physicochemical were pursued. The microporous and hydrophilic building of the PVA hydrogels appears to be an incredible host for NPs. In this context, the recent trends in incorporating inorganic NPs, like carbon-based, LMs, 2D materials, metal/MO, and polymer-based nanomaterials, into 3D polymeric networks as nanocomposite gels with appropriate functionalities for adaptation to complex environments, are discussed. We specially outlined those PVA/NPs nanoprobes that are capable of identification in complex media or those using novel constructions/approaches. As more materials are advanced toward realizing particular characteristics and buildings, PVA/NPs based hydrogel would attract further intensive notice as functional nanoprobes. PVA-based nanoprobes with high mechanical characteristics have facilitated the construction of (bio)sensors, flexible electronic devices, and biomedicine fields, which in turn their performance relies considerably on the type and content of the NPs. Particularly, the high conductive feature of this nanostructure permits them to use in (bio)sensors, actuators, supercapacitors, electro-skin, and drug delivers. Although various inspiring results were recently described for PVA/NPs based hydrogel to realize high conductivity and stretchability, their use often involves the phenomenon of agglomeration, which requires more studies for precise control and development as a comprehensive technique. In addition, the relatively poor interfacial interactions between the NPs and polymers considerably induced the low structural stability and mechanical features of the hydrogels. So, exploring the NPs surface modification remains an imperative method to improve their interfacial interaction with polymer via well-designed bonding and structure. Additionally, the industrial-scale fabrication of the nanocomposite is still challenging.

Nowadays, progress in processing approaches, for example, micro-fluidic reactors, 3D printing technologies, dynamic cross-linking spinning, and extrusion, afford extensive chances to advance large-scale PVA/NPs based hydrogel with designed configurations. In this perspective, PVA/NPs based hydrogel can be incorporated with 3D printing as a molding fabricating strategy that can facilitate their fabrication and effective implementations in different device applications. However, no significant progress has yet been made on the printing of PVA nanocomposite hydrogels. The main reason is that 3D printing technologies have a high demand for material performance,

such as the viscosity/melting point of the material, the photocurable material features, and their capability to maintain the shape after extrusion. To sum up, we believe that with the continued improvement of procedures from the design to production of PVA/NPs based hydrogel, novel kinds of these hydrogels with arranged buildings, new responses to stimuli, and brilliant mechanical characteristics can come true in the near future for use in the fields of (bio)sensors, actuators, biomedicine, and biomimetic materials.

Declaration of Competing Interest

The authors declare no conflict of interest.

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Fig. 43. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

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Fig. 45. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

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Fig. 48. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 49. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 50. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 51. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 52. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

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Fig. 55. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 56. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 57. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 58. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 59. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 60. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

Fig. 61. Effect of pH on the swelling ratio of the hydrogel. (a) Swelling ratio of the hydrogel at different pH values. (b) Swelling ratio of the hydrogel at different pH values.

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Fig. 132. Effect of pH on the swelling ratio of the hydrogel.

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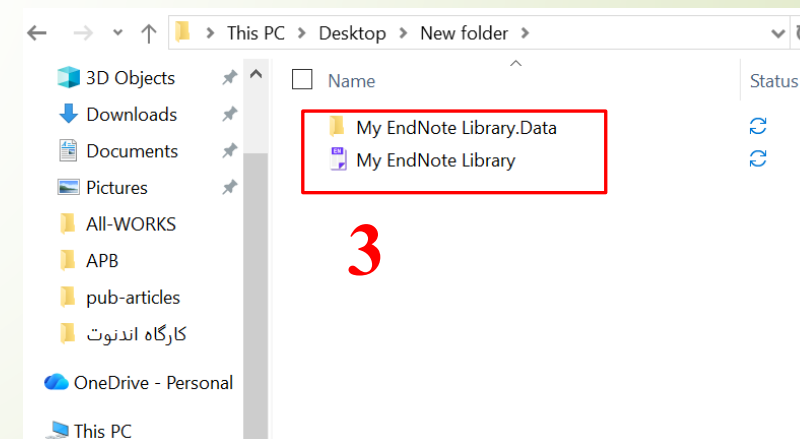
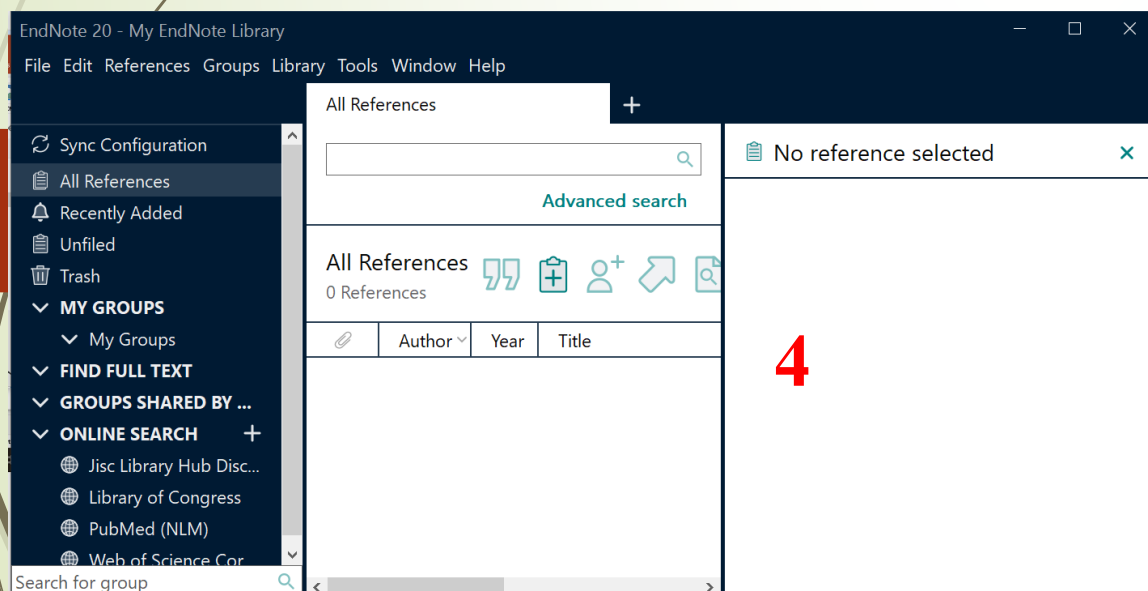
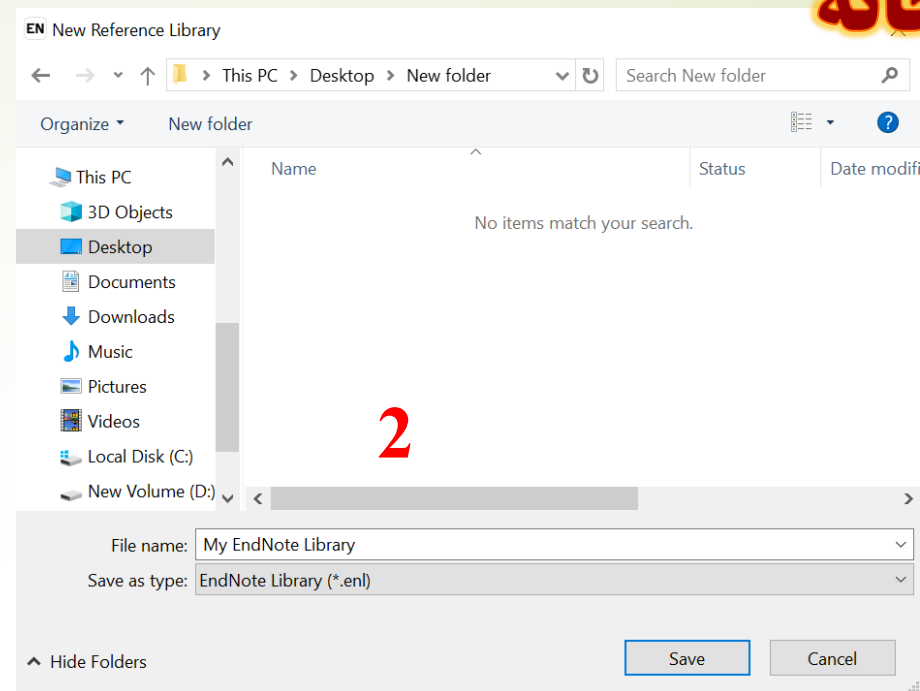
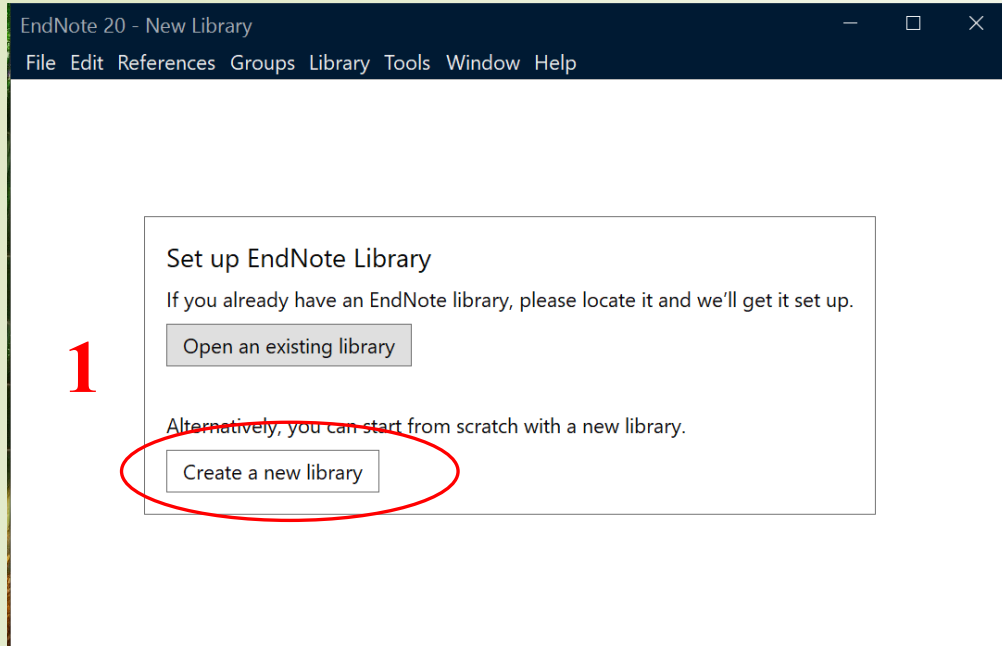
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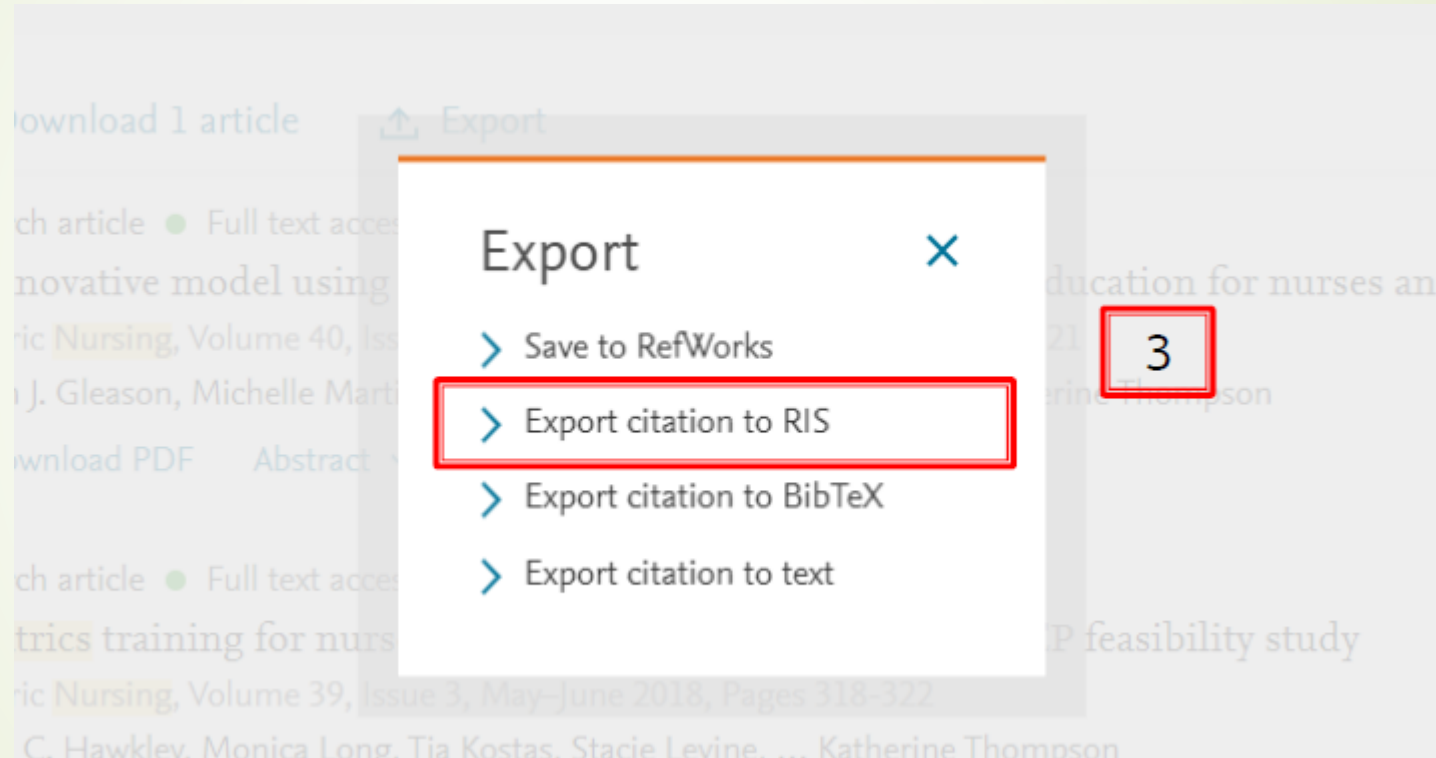
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Trash

MY GROUPS

My Groups

FIND FULL TEXT

GROUPS SHARED BY O...

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Search options

Search

Searching PubMed (NLM)

Retrieve results: 25 50 58

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☐		Author	Year	Title	Journal	Last Updated	Reference Type
☐		Etienne...	2025	Dengue diagnostics: fro...	Nanosc...	5/16/2026	Journal Article
☐		Garcia...	2025	Uncrosslinked Thermore...	Biomac...	5/16/2026	Journal Article
☐		Sarikha...	2025	Nanosensors for real-ti...	Nat Na...	5/16/2026	Journal Article
☐		Kalytch...	2025	pH sensing and imaging ...	Biosens...	5/16/2026	Journal Article
☒		Ace, P. ...	2026	Innovative nanosensors f...	Clin Chi...	5/16/2026	Journal Article
☐		Raji, H.;...	2025	Wireless Power-Up and ...	Langm...	5/16/2026	Journal Article
☐		Ferlazz...	2025	Nanosensors Made of H...	ACS Ap...	5/16/2026	Journal Article
☐		Asif, I. ...	2025	Advances in the Direct N...	Biosens...	5/16/2026	Journal Article
☐		Wang, ...	2025	Batch Synthesis of C@Pt ...	Anal Ch...	5/16/2026	Journal Article
☐		Abdel ...	2025	Ratiomeric Luminescent ...	Lumine...	5/16/2026	Journal Article
☐		Tan, E. ...	2025	Chemistry-informed rec...	Nat Co...	5/16/2026	Journal Article

3

2

وارد کردن دستی

1

EndNote 20 - My EndNote Library

File Edit References Groups Library Tools Window Help

New Reference (My EndNote Library)

File Edit References Groups Library Tools Window Help

Edit PDF

B I U X¹ X₁ 🔍 Save

Reference Type **Journal Article**

Author Karimzadeh, Zahra

Year 2025

Title ...

Journal

Volume

Search for group 🔍

Type here to search

2

3

وارد کردن فایل به صورت دستی

EndNote 20 - My EndNote Library

File Edit References Groups Library Tools Window Help

All References +

Author Contains + x

And Year Contains + x

And Title Contains + x

Simple search Search options Search

All References
2 References

	Author	Year	Title	Journal	Last Updated	Reference Type
	Ace, P. ...	2026	Innovative nanosensors f...	Clin Chi...	5/16/2026	
	Karimz...	2025	...		5/16/2026	

Sync Configuration

All References 2

Recently Added 2

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MY GROUPS

My Groups

FIND FULL TEXT

GROUPS SHARED BY O...

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Web of Science Core C...

..., 2025 #2 Summary Edit PDF x

+ Attach file

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Z. Karimzadeh and ...

2025

Select a file to link to the reference

Look in: pub-articles

Name	Date modified
21. silver. aynaz-phenytoine	12/12/2023 11:03 PM
22. anali- direct monitoring atracurium	3/10/2024 6:52 PM
23. MOF-CEA	3/26/2024 12:04 AM
24. vancomycin-CQDs- shirazi et al.	9/1/2024 6:38 AM
25. chlordiazpoxide. nanozyme yasaman	9/16/2024 3:13 PM
26. double hydrogel-morphine s13065-024-012...	9/21/2025 11:00 AM
27. MII101-agarose . deferiprone. moharami	10/21/2024 10:41 AM
28. cor-nanozyme miRNA-microchim j_compres...	9/21/2025 10:55 AM
29. interaction SP, j biologic macro_compressed	9/21/2025 10:58 AM
30. Zif8-Cyclos. moharami_compressed	9/21/2025 11:00 AM
31. CuAl-LDH-agarose.nanozyme-Vanco	7/21/2025 9:31 AM
32. cor-ZnNQDs-MTX. Latifpour	8/18/2025 11:09 AM
33. cor-5hmC-talanta_compressed	9/21/2025 10:56 AM
34. editorial bi-15-33065	11/30/2025 6:14 PM

File name: 23. MOF-CEA

Files of type: All Files (*.*)

Open Cancel

Copy this file to the default file attachment folder and create a relative link.

+ Attach file

...

Z. Karimzadeh and ...

2025

سازماندهی مراجع

EndNote 20 - My EndNote Library

File Edit References Groups Library Tools Window Help

Find Full Text

Author Contains + X

And Year Contains + X

And Title Contains + X

No reference selected

Sync Configuration

All References 2

Recently Added 2

Unfiled 2

Trash

MY GROUPS

Create Group

Create Smart Group...

Create From Groups...

Create Group Set

Rename Group Set

Delete Group Set

Open in New Tab

Simple search

Search

Find Full Text

References

Author Year Title Journal

EndNote 20 - My EndNote Library

File Edit References Groups Library Tools Window Help

Sync Configuration

All References 2

Recently Added 2

Unfiled 2

Trash

MY GROUPS

My Groups

introduction

FIND FULL TEXT

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Jisc Library Hub Discover

Library of Congress

PubMed (NLM)

Web of Science Core C...

All References

Author Year Title

Ace, P. ... 2026 Innov

Karimz... 2025 ...

New Reference Ctrl+N

Edit Reference Ctrl+E

Copy References To

Copy Formatted Reference Ctrl+K

E-mail Reference

Move References to Trash Ctrl+D

Add References To

Remove References From Group

Cut

Copy

Paste

Find Full Text

Authenticate...

Find Reference Updates

OpenURL Link

Open URL

Mark as Read

Rating

Open in New Tab

Create Custom Group...

My Groups

introduction

Search for group

Type here to search

سازماندهی مراجع (پیدا کردن تکرار ها)

The screenshot shows the EndNote 20 - ECL3 application window. The 'Library' menu is open, and the 'Find Duplicates' option is highlighted with a red box. The 'All References' option in the left sidebar is also highlighted with a red box. The main window displays a list of references with columns for Journal, Last Updated, and Reference. The right sidebar shows a summary of a selected reference.

EndNote 20 - ECL3

File Edit References Groups Library Tools Window Help

Sync

Advanced Search Ctrl+Alt+F

Sort Library...

Find Duplicates

Find Broken Attachment Links

Remove Broken Attachment Links...

Open Term Lists

Define Term Lists... Ctrl+4

Link Term Lists... Ctrl+3

Spell Check Ctrl+Y

Find and Replace... Ctrl+R

Change/Move/Copy Fields...

Recover Library...

Library Summary

Sync Configuration

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Recently Added

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MY GROUPS

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Advanced search

Journal Last Updated Reference

engineering a... 4/29/2025 Journal A

emiluminescen... Nano T... 4/29/2025 Journal A

ancer: Biology, b... Interna... 4/29/2025 Journal A

emiluminescen... Curr. A... 4/29/2025 Journal A

g Features of P... Current... 4/29/2025 Journal A

particle-based... Talanta 4/29/2025 Journal A

ew of carbon-... Nanosc... 4/29/2025 Journal A

Browns... 2010 Graphene electrochemis... 4/29/2025 Journal A

Byford,... 2002 Oestrogenic activity of p... The Jo... 4/29/2025 Journal A

Cao, R... 2004 PDGF-BB induces intratu... Cancer ... 4/29/2025 Journal A

Chapm... 2006 Thrombin in inflammato... Autoim... 4/29/2025 Journal A

Chen, ... 2020 Signal-off/on electrogen... Analyti... 4/29/2025 Journal A

Chinna... 2019 Recent advances in micr... Biosens... 4/29/2025 Journal A

Comsa... 2015 The story of MCF-7 brea Antican 4/29/2025 Journal A

Summary

Attach file

Innovative engineering and sensing strategies for aptamer-based small-molecule detection

O. Alkhamis, J. Canoura, H. Yu, Y. Liu and Y. J. T. T. i. A. C. Xiao

Annotated Insert Copy

Alkhamis, O., et al. (2019). "Innovative engineering and sensing strategies for aptamer-based small-molecule detection." **121**: 115699.

Document1 - Word

File Insert Draw Design Layout References Mailings Review View Help Home Grammarly EndNote 20 Tell me what you want to do Share

Insert Citation

EN Go to EndNote

Edit & Manage Citation(s)

Edit Library Reference(s)

Citations

Style: Numbered

Update Citations and Bibliography

Convert Citations and Bibliography

Bibliography

Categorize References

Instant Formatting is Off

Export to EndNote

Manuscript Matcher

Preferences

Tools

Help

2 1 1 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Optical Nanosensors

Abstract

1. Introduction

Cancer signifies a substantial global health concern and the second leading cause of death worldwide, accounting for approximately one in six deaths [1]. Early detection is essential, yet most cancers have been diagnosed by imaging methods such as ultrasound scans, computed tomography (CT) scans, X-ray scans, magnetic resonance imaging (MRI), positron emission tomography (PET) scans, or followed by biopsy. However, these conventional imaging methods with low sensitivity for cancer determination in early stages are costly and relatively time-consuming

1. Crosby, D., et al., *Early detection of cancer*. Science, 2022. 375(6586): p. eaay9040.

قابل نمایش کردن در فایل Word

Document1 - Word

File 1 Insert Draw Design Layout References Mailings Review View Help Home Grammarly Tell me what you want to do

Clipboard Paste

Paragraph

Styles

Editing

Find Replace Select

Add-ins

Open Grammarly

Home

New

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Info

Save

Save As

History

Print

Share

Export

Close

Account

Options

General

Display

Proofing

Save

Language

Accessibility

Advanced

Customize Ribbon

Quick Access Toolbar

Add-ins

Trust Center

View and manage Microsoft Office Add-ins.

Add-ins

Name	Location	Type
Active Application Add-ins		
Date (XML)	C:\Program Files (x86)\Common Files\	Action
Grammarly	C:\Users\E.S\AppData\Local\Grammarly	COM Add-in
Instant Messaging Contacts (English)	C:\Program Files (x86)\Common Files\	Action
Measurement Converter (Measurement Converter)	C:\Program Files (x86)\Common Files\	Action
Telephone Number (XML)	C:\Program Files (x86)\Common Files\	Action
Inactive Application Add-ins		
ActionsPane Schema for Add-ins	c:\Program Files (x86)\Common Files\M	XML Schema
EndNote Cite While You Write	C:\Program Files (x86)\Common Files\R	COM Add-in
Microsoft Actions Pane 3		XML Expansion
OneNote Notes about Word Documents	C:\Program Files (x86)\Microsoft Office\	COM Add-in

Manage: COM Add-ins Go...

COM Add-ins

Add-ins available:

- ☒ EndNote Cite While You Write
- ☒ Grammarly
- ☐ OneNote Notes about Word Documents
- ☐ PDFMaker.OfficeAddin

Location: C:\Program Files (x86)\Common Files\ResearchSoft\Cwyw\20\EndNote Cwyw.dll

Load Behavior: Unloaded

OK Cancel

پنل اندنوت در Word

The screenshot displays the Microsoft Word interface with the EndNote 20 ribbon active. The ribbon includes tabs for File, Insert, Draw, Design, Layout, References, Mailings, Review, View, Help, Home, Grammarly, and EndNote 20. The EndNote 20 tab contains several groups of commands:

- Insert Citation**: Includes "Go to EndNote", "Edit & Manage Citation(s)", and "Edit Library Reference(s)".
- Style**: A dropdown menu currently set to "Numbered".
- Update Citations and Bibliography**: Includes "Update Citations and Bibliography", "Convert Citations and Bibliography", "Convert to Unformatted Citations", "Convert to Plain Text", "Convert Reference Manager Citations to", and "Convert Word Citations to EndNote".
- Export to EndNote**: Includes "Export to EndNote", "Export Traveling Library", "Export Word Citations", and "Export Word Master List".
- Instant Formatting**: Includes "Instant Formatting is Off" and "Turn Instant Formatting Off".

The "EndNote 20 Edit & Manage Citations" dialog box is open, showing a table of citations:

Citation	Count	Library	
[1] Crosby, 2022 #1	1	ECL3	Edit Reference
[2] Berenguer, 2023 #70	1	ECL3	Edit Reference

The dialog box also includes fields for "Prefix", "Suffix", and "Pages", and buttons for "Tools", "OK", "Cancel", and "Help".

The document text shows the following content:

Optical Nanosensors

act

roduction

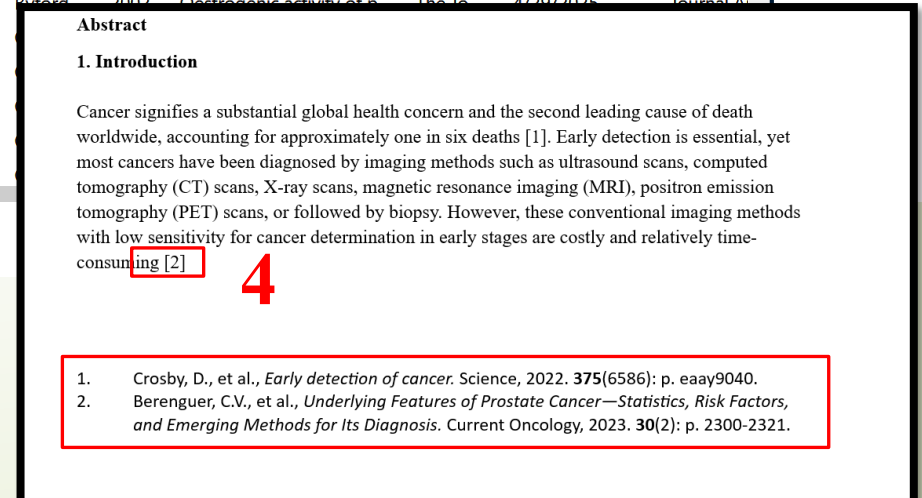
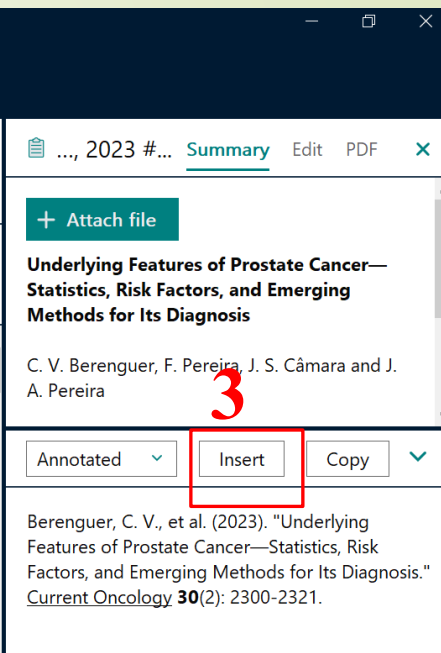
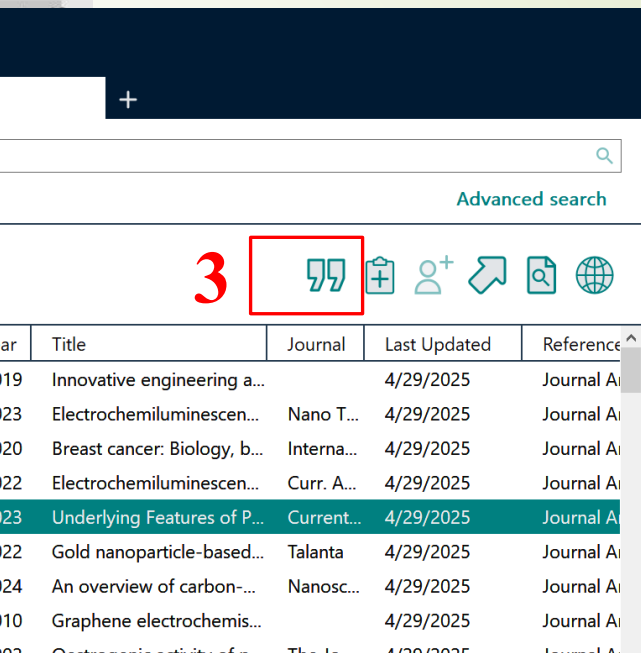
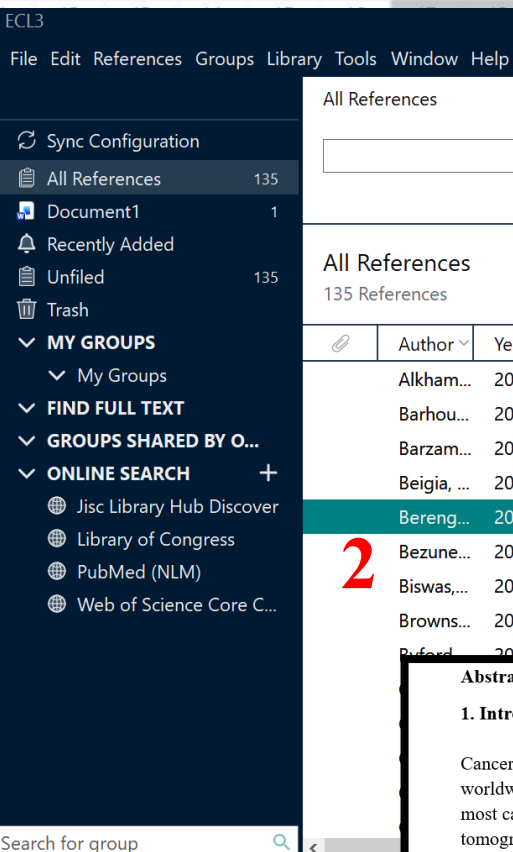
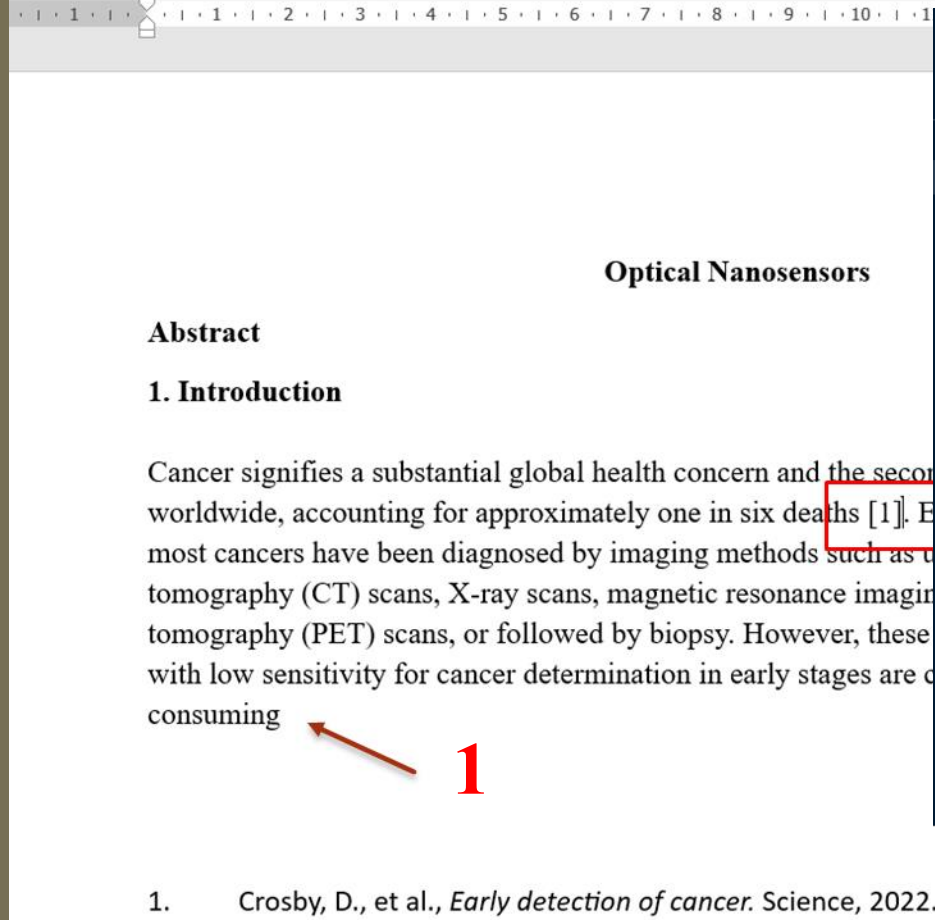
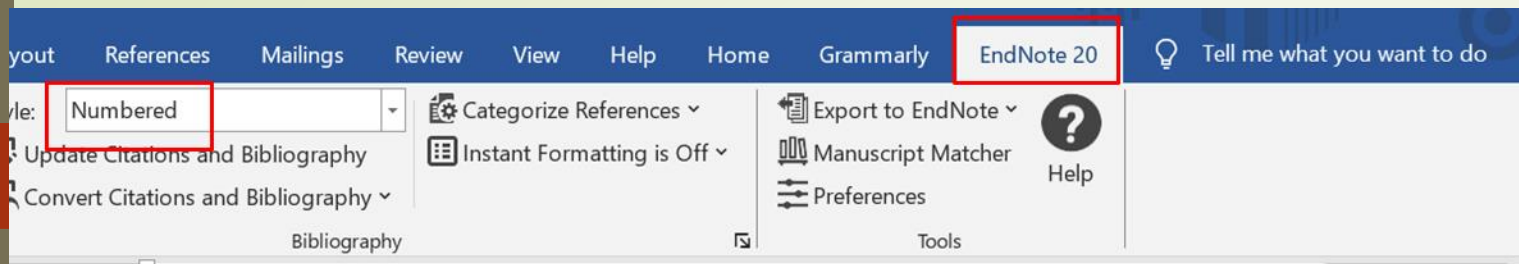
r signifies a substantial global health concern and the second leading cause of death wide, accounting for approximately one in six deaths [1]. Early detection is essential, yet cancers have been diagnosed by imaging methods such as ultrasound scans, computed graphy (CT) scans, X-ray scans, magnetic resonance imaging (MRI), positron emission graphy (PET) scans, or followed by biopsy. However, these conventional imaging methods ow sensitivity for cancer determination in early stages are costly and relatively time-ming [2]

1. Crosby, D., et al., *Early detection of cancer*. Science, 2022. 375(6586): p. eaay9040.

2. Berenguer, C.V., et al. *Underlying Features of Prostate Cancer—Statistics, Risk Factors*

Page 1 of 1 123 words English (United States) Accessibility: Good to go 100%

وارد کردن رفرنس به Word



1. برون متنی (شمارشی): سند مورد ارجاع در جایی خارج از متن

(پایین صفحه، پایان فصل یا انتهای متن) درج می شود. رفرنس ها به صورت نماد عددی در متن می آیند. مانند شیوه ونکوور

2. درون متنی (نام- سال): مشخصات کوتاهی از رفرنس در داخل پرانتز در متن ارائه می شود که اغلب شامل نام نویسنده و تاریخ و مواردی شماره صفحه است. مانند شیوه هاروارد و شیوه ای. پی. ای. (انجمن روانشناسان امریکا)

Document1 - Word

zahra karimzadeh ZK

Design Layout References Mailings Review View Help Home Grammarly EndNote 20 Tell me what you want to do

Style: Numbered

Update Citations and Bibliography

Convert Citations and Bibliography

Categorize References

Instant Formatting is Off

Export to EndNote

Manuscript Matcher

Preferences

Help

Bibliography

Tools

Optical Nanosensors

Abstract

1. Introduction

Cancer signifies a substantial global health concern and the second leading worldwide, accounting for approximately one in six deaths [1]. Early detection of most cancers have been diagnosed by imaging methods such as ultrasound tomography (CT) scans, X-ray scans, magnetic resonance imaging (MRI), positron emission tomography (PET) scans, or followed by biopsy. However, these conventional imaging methods with low sensitivity for cancer determination in early stages are costly and time-consuming

1. Crosby, D., et al., *Early detection of cancer*. Science, 2022. **375**(6580): 1-10.

Design Layout References Mailings Review View Help Home Grammarly EndNote 20 Tell me what you want to do

Style: APA 7th

Update Citations and Bibliography

Convert Citations and Bibliography

Categorize References

Instant Formatting is On

Export to EndNote

Manuscript Matcher

Preferences

Help

Bibliography

Tools

Optical Nanosensors

Abstract

1. Introduction

Cancer signifies a substantial global health concern and the second leading cause of death worldwide, accounting for approximately one in six deaths (Crosby et al., 2022). Early detection is essential, yet most cancers have been diagnosed by imaging methods such as ultrasound scans, computed tomography (CT) scans, X-ray scans, magnetic resonance imaging (MRI), positron emission tomography (PET) scans, or followed by biopsy. However, these conventional imaging methods with low sensitivity for cancer determination in early stages are costly and relatively time-consuming (Berenguer et al., 2023)

Berenguer, C. V., Pereira, F., Câmara, J. S., & Pereira, J. A. (2023). Underlying Features of Prostate Cancer—Statistics, Risk Factors, and Emerging Methods for Its Diagnosis. *Current*

English (United States) Accessibility: Good to go

شیوه های رفرنس نویسی رایج

➡ ونکوور (برون متنی)

➡ هاروارد (درون متنی)

➡ APA

رفرنس دهی به سبک ونگوور Vancouver

تاریخچه:

اولین بار در سال ۱۹۷۸ گروه کوچکی از سردبیران مجلات پزشکی در ونگوور بریتیش کلمبیا برای تهیه راهنمای نگارش مقالات ارائه شده در مجلات پزشکی گرد هم جمع شدند. این گروه به نام گروه ونگوور شناخته شد. حاصل این گردهمایی در سال ۱۹۷۹ مشتمل بر راهنمای نگارش فهرست منابع توسط کتابخانه ملی پزشکی آمریکا ارائه شد. با توسعه این گروه، کمیته بین المللی سردبیران مجلات پزشکی شکل گرفت. این کمیته ویرایشهای متعددی از "قوانین یکدست و هماهنگ جهت نوشته های ارائه شده به مجلات زیست پزشکی" تهیه و چاپ کرد که بطور کامل در سال ۱۹۹۷ تجدید نظر شد و ویرایش اصلی و نهایی آن در سال ۲۰۰۱ به اتمام رسید. هم اکنون بیش از ۵۰۰ نشریه حوزه علوم پزشکی از این قوانین پیروی می کنند.

اصول مربوط به شیوه ونگوور:

وقتی که به هر منبع ، عددی اختصاص می دهید، هربار که در متن مجددا می خواهید به آن منبع استناد کنید، باید همان عدد را درج نمایید.

به عنوان یک قاعده کلی، این اعداد بعد از **نقطه و کاما در آخر هر جمله و داخل پرانتز** قرار می گیرند.

وقتی در بخشی از متن به چند منبع (که شماره های آنها، متوالی و پشت سر هم است) استناد کنید، از خط فاصله (-) برای توالی اولین عدد و آخرین عدد استفاده کنید. مثل : (۳-۸)

وقتی در بخشی از متن، به چند منبع (که شماره های آنها پشت سرهم نیست) می خواهید استناد کنید، بین هر شماره با شماره بعدی، یک علامت ویرگول و بدون فاصله قرار دهید. مثل : (۲ ، ۶ ، ۷ ، ۸)

رفرنس نویسی APA

American Physiological Associations

تاریخچه:

برای سهولت در نگارش، انجمن روانشناسان آمریکا، شیوه نگارش APA را پیشنهاد دادند که بیش از دو دهه است در جهان مرسوم شده است.

در شیوه APA مشخصات مطلب نقل شده به صورت خلاصه نام خانوادگی، سال انتشار و صفحه در پرانز مقابل عبارت ها نوشته می شود و مشخصات جامع منبع شامل نام خانوادگی ، نام، سال انتشار، نام کتاب یا مقاله، احتمالا مترجم، انتشارات و شماره چاپ بر اساس حروف الفبا در انتهای نوشتار آورده می شود.

رفرنس نویسی به سبک هاروارد

- ذکر نام نویسنده و سال چاپ در پرانتز: (هال، ۱۹۸۸)
- ذکر نام نویسنده به عنوان بخشی از جمله: هال (۱۹۸۸) نشان داد که...
- ذکر چند منبع مشترک (به ترتیب زمانی با گذاشتن علامت ویرگول)
- ذکر دو منبع با نویسنده و سال انتشار مشابه
(هال، 1988a) و (هال، 1988b)
- ذکر نام بیش از دو نویسنده: در اولین نوبت ذکر منبع، نام هر دو می آید، پس از آن فقط نام نویسنده اول و کلمه et al

بخشی از یک کتاب

ونکوور: ➤

Porter RJ. Antiepileptic drugs, In: Katzung BG, editor. Basic and clinical pharmacology. 6th ed. Oxford: Oxford, 1988.

هاروارد: ➤

Porter, RJ 1988, "Antiepileptic drugs", In: Katzung, BG (ed.), *Basic and clinical pharmacology*, 6th ed. Oxford, Oxford.



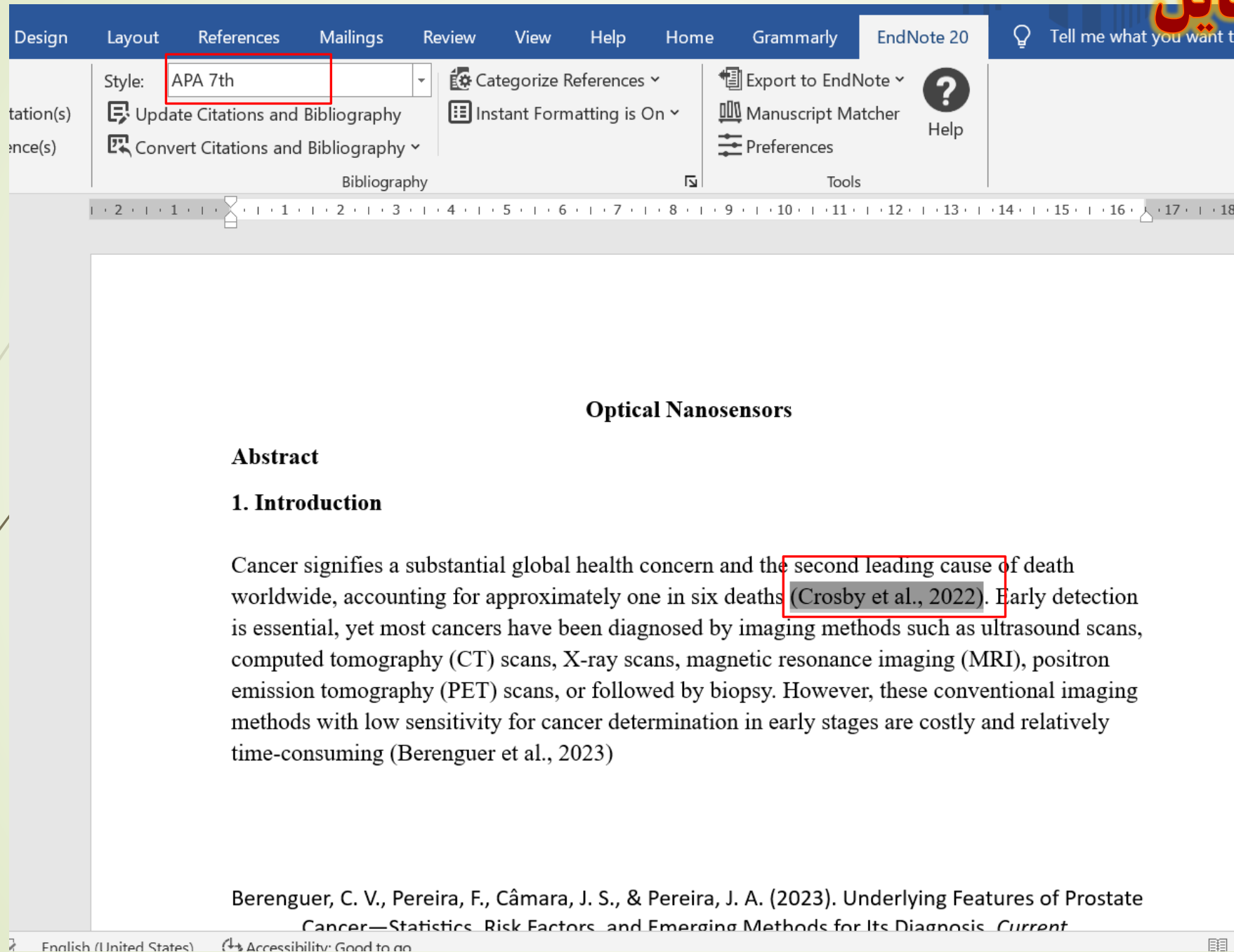
مقاله

ونکوور: ➤

- Russell FD, Coppel AL. Coffee drinking and cancer of the pancreas. *Biochem Pharmacol* 1998 mar 1;55(5):697-701.

هاروارد: ➤

- Russell, FD & Coppel AL 1998, "Coffee drinking and cancer of the pancreas", *Biochem Pharmacol* vol. 1, no.55(5):pp. 697-701.



The screenshot shows the Microsoft Word interface with the EndNote 20 ribbon active. The 'Style' dropdown is set to 'APA 7th'. The document content includes a title 'Optical Nanosensors', an 'Abstract' section, and a '1. Introduction' section. The introduction text discusses cancer as a global health concern and mentions 'the second leading cause of death worldwide, accounting for approximately one in six deaths (Crosby et al., 2022)'. The citation '(Crosby et al., 2022)' is highlighted with a red box. At the bottom, a reference is listed: 'Berenguer, C. V., Pereira, F., Câmara, J. S., & Pereira, J. A. (2023). Underlying Features of Prostate Cancer—Statistics, Risk Factors, and Emerging Methods for Its Diagnosis. *Current*'.

Design Layout References Mailings Review View Help Home Grammarly EndNote 20 Tell me what you want to do

Style: APA 7th

Update Citations and Bibliography

Convert Citations and Bibliography

Categorize References

Instant Formatting is On

Export to EndNote

Manuscript Matcher

Preferences

Help

Bibliography Tools

2 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Optical Nanosensors

Abstract

1. Introduction

Cancer signifies a substantial global health concern and the second leading cause of death worldwide, accounting for approximately one in six deaths (Crosby et al., 2022). Early detection is essential, yet most cancers have been diagnosed by imaging methods such as ultrasound scans, computed tomography (CT) scans, X-ray scans, magnetic resonance imaging (MRI), positron emission tomography (PET) scans, or followed by biopsy. However, these conventional imaging methods with low sensitivity for cancer determination in early stages are costly and relatively time-consuming (Berenguer et al., 2023)

Berenguer, C. V., Pereira, F., Câmara, J. S., & Pereira, J. A. (2023). Underlying Features of Prostate Cancer—Statistics, Risk Factors, and Emerging Methods for Its Diagnosis. *Current*

English (United States) Accessibility: Good to go

انتخاب استایل

ECL3

File Edit References Groups Library **Tools** Window Help

Install EndNote Click Browser Extension

Output Styles

Import Filters

Connection Files

Cite While You Write [CWYW]

Format Paper

Subject Bibliography...

Show Connection Status

Online Search...

New Style...

Edit "BiolImpacts"

Edit "APA 7th"

Open Style Manager...

Adv in Colloid Interface Sci

Amer Sociological Review

Analytical Chem

Analytical Methods

Annotated

APA 7th

APB-Endnote

Author-Date

☒ **BiolImpacts**

Biomaterials

Bioscience

BMC Cell Biology

Chemical Papers

Chicago 16th Author-Date

Chicago 17th Author-Date French U Montreal

Chicago 17th Footnote

Clinica Chimica Acta

Comm On Pure App Math

Crit Rev Analytical Chem

Barzam... 2020 Breast cancer: Biology

Beigia, ... 2022 Electrochemiluminescence

Bereng... 2023 Underlying Features of Prostate Cancer—Statistics, Risk Factors, and Emerging Methods for Its Diagnosis

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Biswas,... 2024 An overview of carbon

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