

02

Endnote 之 文献阅读与管理篇

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上次课程内容回顾

- 学习软件是一项时间投资
 - 花一定的时间学习，从而节省更多时间
- 文献管理软件的功能设计要满足科研人员的实际需求
- 文献管理软件使用入门篇
 - 如何将6种不同来源的文献导入到endnote中
 - 在线检索，网站输出，pdf导入，文本导入，手动输入，软件间交换等

文献导入endnote的几种方法

- **直接检索**：方便快捷，但有些网站无法直接检索
- **网站输出**：所有网站都支持的方式，导出数量通常受限
- **PDF导入**：适合自动导入大量pdf文件，部分无法识别
- **文本导入**：部分数据库网站只支持导出为文本格式（中文）
- **手动输入**：适合少量文献，且不便联网的情况
- **文献管理软件之间的数据交换**（histcite—endnote）

下载了一堆文献之后，
能做什么，如何提升效率？

本次课程内容

1. 界面介绍和基本操作：
 - 布局、阅读、排序、栏位调整，菜单，右键菜单的功能，三种工作模式
2. 如何进行分组管理：
 - 手动分组、智能分组、联合创建组、group set等
 - 笔记与附件管理，批量修改与备注等
3. 如何快速概览全貌，如何开展简单的分析并输出信息（词云）
4. 如何对文献进行快速筛选：二分法
5. 如何高效阅读，英文阅读慢，没时间读文献怎么办？
6. 主要菜单功能速览

1 关于软件界面的介绍

1 界面的简要介绍

- 排序，栏位调整，显示与隐藏
- 页面的布局调整
- 菜单栏的介绍
- 右键的简要介绍（不同位置的右键功能）

EndNote X9 - [20180929 aptamer top200.enl]

File Edit References Groups Tools Window Help

Nature x

Quick Search Show Search Panel

Author	Rec...	Year	Rating	Title	Research Notes	Journal
Shamah, S. M.; He...	1	2008		Complex target SELEX		Accounts of Ch
Roth, A.; Breaker, ...	2	2009		The Structural and Functional Diversity of Metabolite-Binding Ribo...		Annual Review
Shi, H.; He, X. X.; ...	3	2011		Activatable aptamer probe for contrast-enhanced in vivo cancer im...		Proceedings of
Fang, X. H.; Cao, Z...	4	2001		Molecular aptamer for real-time oncoprotein platelet-derived gro...		Analytical Cher
Cao, Z. H.; Tong, R...	5	2009		Reversible Cell-Specific Drug Delivery with Aptamer-Functionalize...		Angewandte C
Zheng, D.; Seferos...	6	2009		Aptamer Nano-flares for Molecular Detection in Living Cells		Nano Letters
Medley, C. D.; Smi...	7	2008		Gold nanoparticle-based colorimetric assay for the direct detection...		Analytical Cher
Gilbert, S. D.; Stod...	8	2006		Thermodynamic and kinetic characterization of ligand binding to th...		Journal of Mole
Herr, J. K.; Smith, ...	9	2006		Aptamer-conjugated nanoparticles for selective collection and dete...		Analytical Cher
Berezovski, M.; D...	10	2005		Nonequilibrium capillary electrophoresis of equilibrium mixtures: A ...		Journal of the
Cheng, A. K. H.; G...	11	2007		Aptamer-based biosensors for label-free voltammetric detection o...		Analytical Cher
Wickiser, J. K.; Ch...	12	2005		The kinetics of ligand binding by an adenine-sensing riboswitch		Biochemistry
Liu, J.; Lu, Y.	13	2006		Preparation of aptamer-linked gold nanoparticle purple aggregates ...		Nature Protoc
Wang, K. Y.; McCu...	14	1993		A DNA APTAMER WHICH BINDS TO AND INHIBITS THROMBIN EX...		Biochemistry
Chang, H. X.; Tang,...	15	2010		Graphene Fluorescence Resonance Energy Transfer Aptasensor for ...		Analytical Cher
Fang, X. H.; Sen, A...	16	2003		Synthetic DNA aptamers to detect protein molecular variants in a high-		Chembiochem

Reference Preview Attached PDFs

1 15
Analytical Chemistry
Graphene Fluorescence Resonance Energy Transfer Aptasensor for the Thrombin Detection. Analytical Chemistry 82, 2341-2346, doi:10.1021/ac9025384 (2010).
Combining nanomaterials and biomolecule recognition units is promising in developing novel clinic diagnostic and protein analysis techniques. In this work, a highly sensitive and specific fluorescence resonance energy transfer (FRET) aptasensor for thrombin detection is developed based on the dye labeled aptamer assembled graphene. Due to the noncovalent assembly between aptamer and graphene, fluorescence quenching of the dye takes place because of FRET. The addition of thrombin leads to the fluorescence recovery due to the formation of quadruplex-thrombin complexes which have weak affinity to graphene and keep the dyes away from graphene surface. Because of the high fluorescence quenching efficiency, unique structure, and electronic properties of graphene, the graphene aptasensor exhibits extraordinarily high sensitivity and excellent specificity in both buffer and blood serum. A detection limit as low as 31.3 pM is obtained based on the graphene FRET aptasensor, which is two orders magnitude lower than those of fluorescent sensors based on carbon nanotubes. The excellent performance of FRET aptasensor based on graphene will also be ascribed to the unique structure and electronic properties of graphene.

快速浏览

Showing 200 of 200 references in Group. (All References: 5586)

Layout

界面布局的调整

The screenshot shows the EndNote X9 interface with a reference list and a layout menu. The reference list has columns for Year, Rec..., Rating, and Title. The layout menu is open, showing options for the Groups Panel and Reference Panel.

Year	Rec...	Rating	Title
2020	81		Functional assessment of cell entry and receptor usage for lineage B β -coronaviruses
2020	82		Evolution and variation of 2019-novel coronavirus
2020	83		Breaking down of healthcare system: Mathematical modelling for controlling the novel coronavirus
2020	84		Nucleotide Analogues as Inhibitors of Viral Polymerases
2020	85		Beware of asymptomatic transmission: Study on 2019-nCoV prevention and control strategies
2020	86		MRCA time and epidemic dynamics of the 2019 novel coronavirus
2020	87		Genome Detective Coronavirus Typing Tool for rapid identification and characterization
2020	88		2019-20 Wuhan coronavirus outbreak: Intense surveillance is vital for preventing subsequent waves
2020	89		What goes on board aircraft? Passengers include Aedes, Anopheles and Culex mosquitoes
2020	90		Genome Composition and Divergence of the Novel Coronavirus

Reference Panel

Shen, M., et al. (2020). "Modelling the epidemic trend of the 2019 novel coronavirus outbreak in China." [bioRxiv: 2020.01.2023.916726](https://doi.org/10.1101/2020.01.2023.916726).
We present a timely evaluation of the Chinese 2019-nCoV epidemic in its initial phase, where 2019-nCoV demonstrates comparable transmissibility to SARS and MERS. A quick diagnosis that leads to case isolation and integrated interventions will have a major impact on its future trend. Facing its Spring Festival travel rush and the epidemic has spread beyond its borders, further investigation on its potential spatiotemporal transmission patterns and intervention strategies are warranted.

Layout

Showing 618 of 618 references.

Layout Menu:

- Groups Panel
 - Left
 - Off
- Reference Panel
 - Right
 - Right - Split
 - Bottom
 - Bottom - Split
 - Off

查找重复，查找全文

EndNote X9 - [20180929...amer top200.en]

File Edit **References** Groups Tools Window Help

- New Reference Ctrl+N
- Edit References Ctrl+E
- Move References to Trash
- Go To... Ctrl+J
- Copy References To >
- E-mail Reference
- File Attachments >
- PDF Viewer >
- Find Full Text >
- Find Reference Updates...
- URL
- Figure >
- Web of Science >
- Next Reference Ctrl+Page Down
- Previous Reference Ctrl+Page Up
- Show All References Ctrl+M
- Show Selected References
- Hide Selected References
- Record Summary...
- Find Duplicates**
- Restore to Library
- Resolve Sync Conflicts...
- Empty Trash

Showing 200 of 200 references in Group. (All References: 5586)

Author	Rec...	Year	Rating
Chen, J. Y.; Luo, Z. ...	5012	2018	
Yang, Z. H.; Ding, ...	5013	2017	
Luo, Z. F.; He, L.; ...	5014	2017	
Wu, T.; Luo, Z. F.; ...	5015	2017	. . .
Han, Y.; Diao, D. L.;...	5016	2017	. . .
Zhou, Q. T.; Sun, X...	5017	2017	. . .
Li, X.; Jiang, H.; Lu...	5018	2016	. . .
Zhang, L. Y.; Er, J. C...	5019	2016	. . .
Zhou, Q. T.; Xia, X. ...	5020	2015	. . .
Chen, L.; Rashid, F....	5021	2015	. . .
Li, Y.; Wu, P.; Luo, ...	5022	2015	. . .
Luo, Z. F.; Zhou, H....	5023	2015	
Wu, P.; Luo, Z. F.; Li...	5024	2015	
Zuo, M. Y.; Chen, L...	5025	2014	
Li, Y. T.; Wu, P.; Zha...	5026	2014	
Wang, Y.; Wu, P.; I...	5027	2014	

Record Summary...

New Reference

Edit References

Move References to Trash

Add References To >

Copy References To >

E-mail Reference

Remove References From Group

Cut

Copy

Copy Formatted **右键查**

Paste

Mark as Read **找全文**

Mark as Unread

Rating >

Show All References

Show Selected References

Hide Selected References

File Attachments >

PDF Viewer >

Find Full Text >

Find Reference Updates...

URL >

Web of Science >

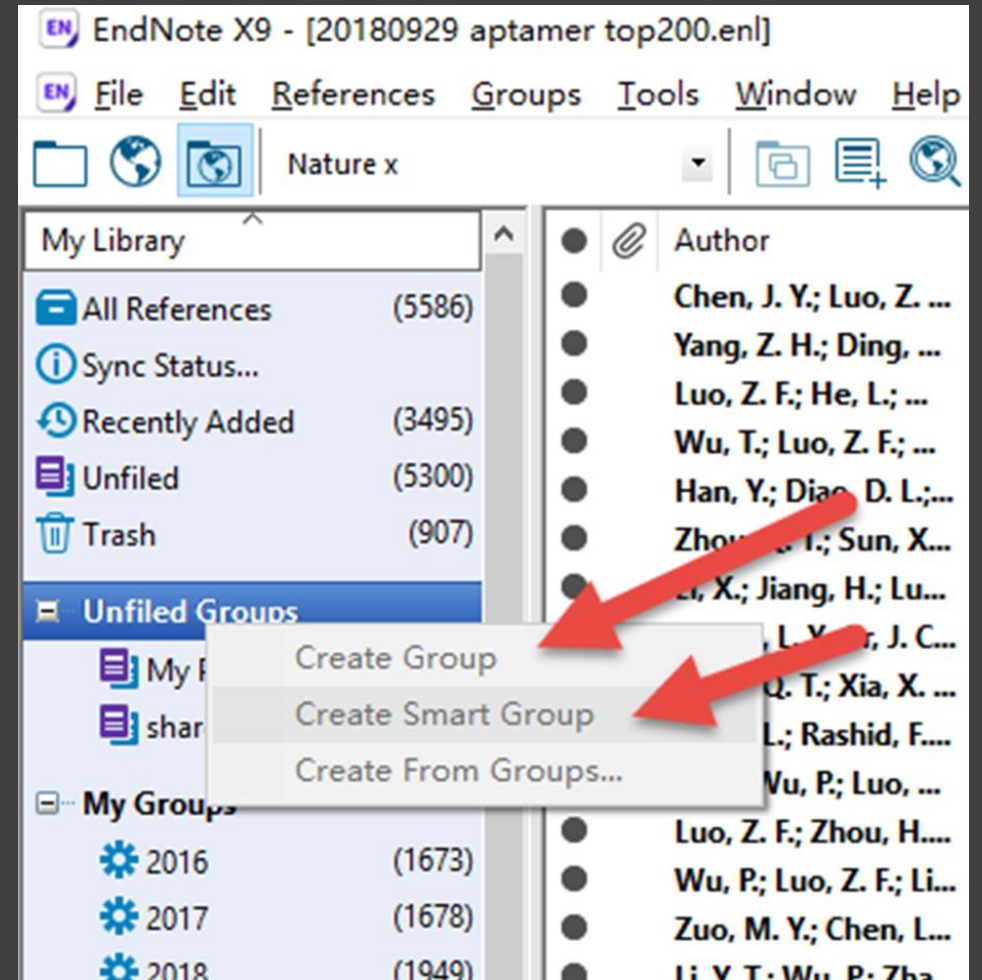
Restore to Library

Resolve Sync Conflicts...

2 如果对文献进行分类管理

2 如何进行分组管理

- 手动分组、智能分组、联合创建组、group set等
- 笔记与附件管理
- 批量修改与备注等



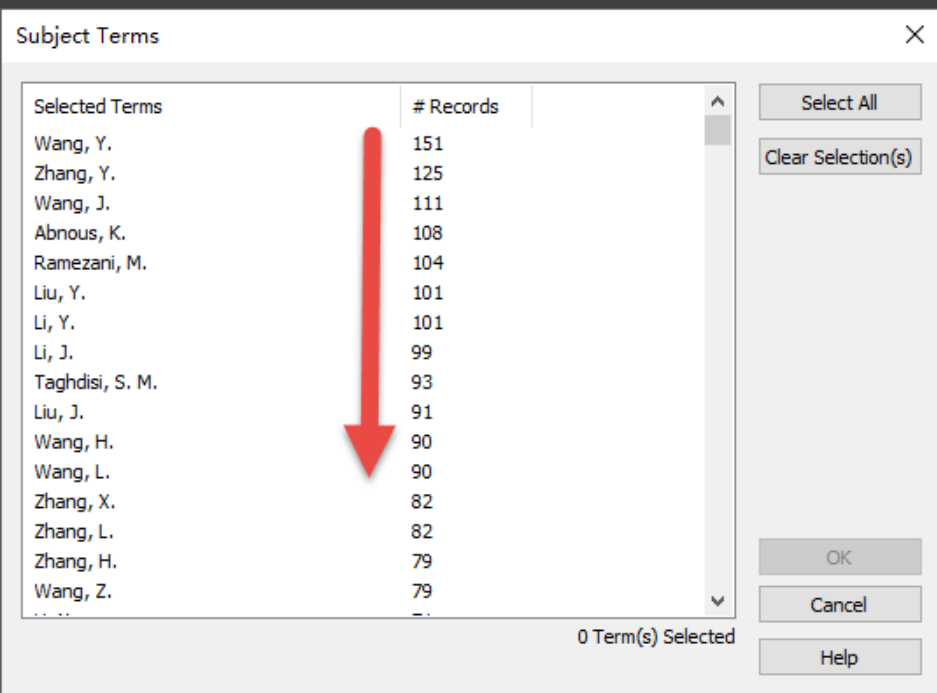
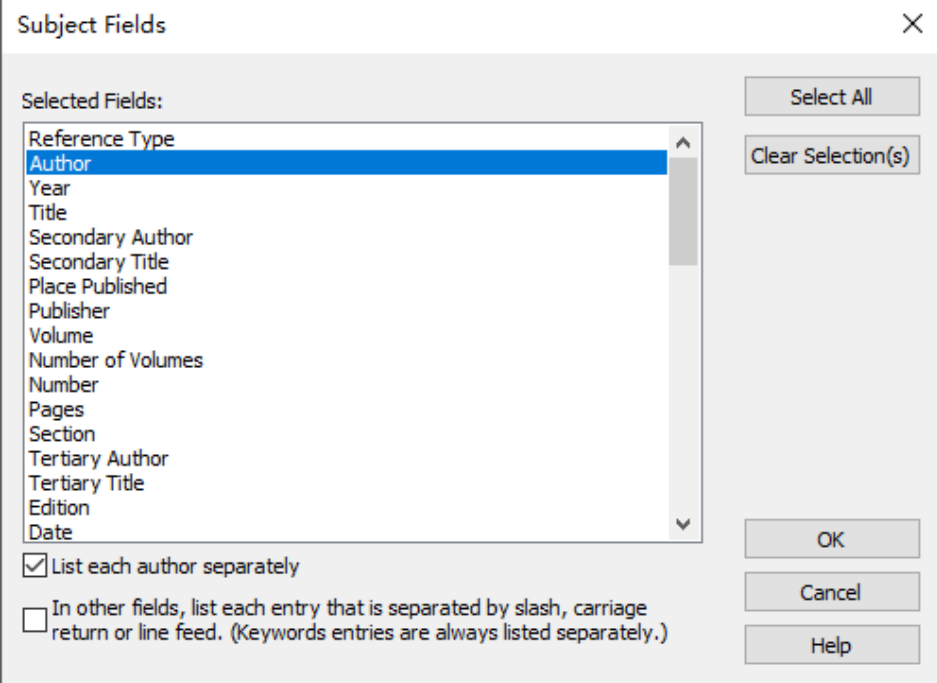
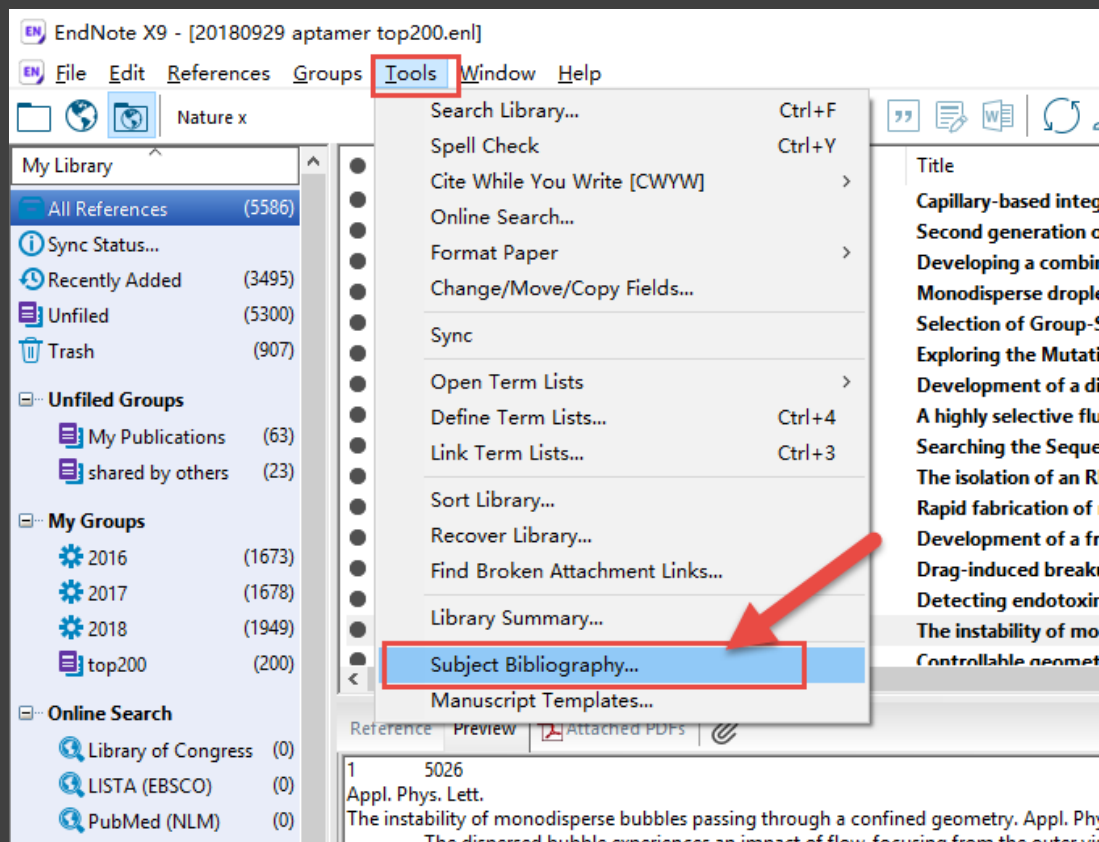
3 如果快速了解文献全貌

3 如何快速概览全貌

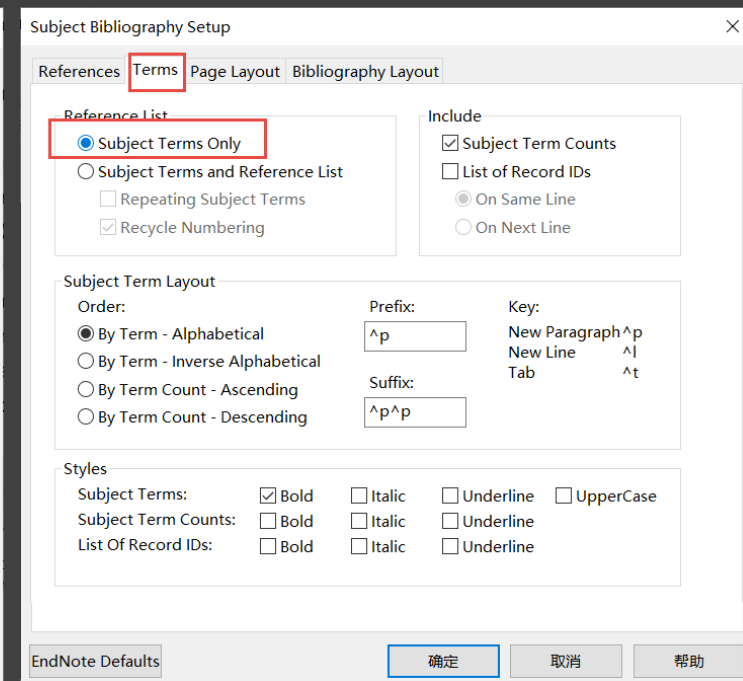
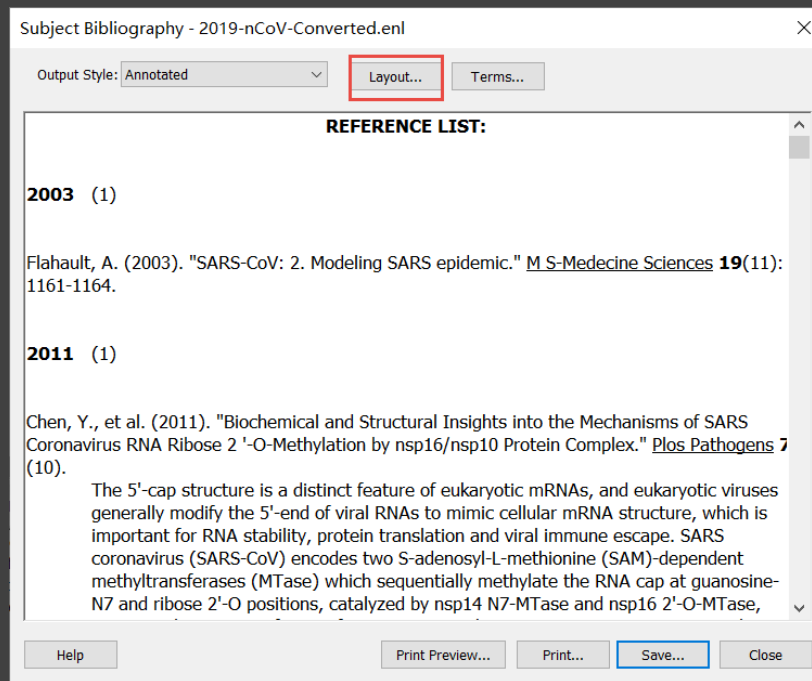
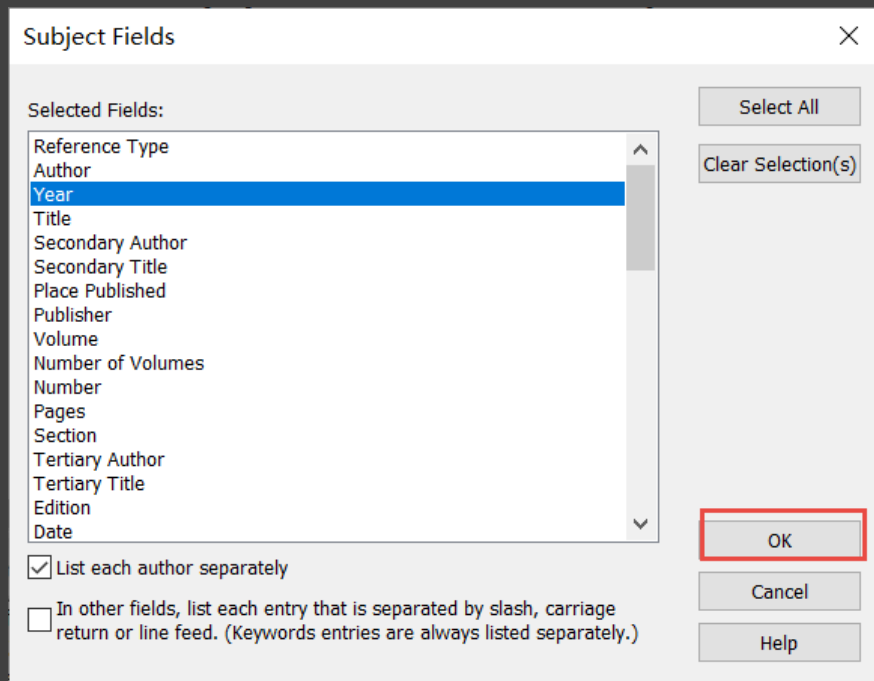
- 如何开展简单的分析并输出信息（词云）
- 文献信息统计与分析

文献信息统计信息的数据输出

- 示例1：我想统计一下不同年代的文献并将其输出
- 示例2：我想统计所有文献使用的关键词



三步教你将Endnote中的统计结果输出成文本



Endnote 输出关键词，wordart网站作词云图

The image shows a screenshot of the WordArt.com website interface. The browser address bar displays <https://wordart.com/create>. The navigation menu includes **MENU**, **SAVE**, **ORDER**, **SHARE**, and **DOWNLOAD**. The main content area features a word cloud visualization of keywords, with the largest words being **筛选** (Selection), **检测** (Detection), **靶向** (Targeting), and **治疗** (Treatment). Other visible keywords include **富集** (Enrichment), **应用** (Application), **预测** (Prediction), **传感** (Sensing), **相互作用** (Interaction), **标志物** (Biomarkers), **计算** (Calculation), **功能** (Function), **免疫** (Immunity), **分离** (Separation), **分裂** (Division), **模拟** (Simulation), **体内** (In vivo), **修饰** (Modification), **调控** (Regulation), **靶点** (Targets), **药物** (Drugs), **设计** (Design), **制备** (Preparation), **质谱** (Mass Spectrometry), **治疗** (Treatment), **新方法** (New Methods), **组装** (Assembly), **载药** (Drug Carriers), **成像** (Imaging), **光控** (Optical Control), **纳米** (Nanotechnology), **手机** (Mobile), **综述** (Review), **检测** (Detection), **识别** (Identification), **机制** (Mechanism), **释放** (Release), **机理** (Mechanism), **靶向** (Targeting), **侧向** (Lateral), **流动** (Flow), **设计** (Design), **机理** (Mechanism), **修饰** (Modification), **调控** (Regulation), **靶点** (Targets), **药物** (Drugs), **设计** (Design), **制备** (Preparation), **质谱** (Mass Spectrometry), **治疗** (Treatment), **新方法** (New Methods), **组装** (Assembly), **载药** (Drug Carriers), **成像** (Imaging), **光控** (Optical Control), **纳米** (Nanotechnology), **手机** (Mobile), **综述** (Review), **检测** (Detection), **识别** (Identification), **机制** (Mechanism), **释放** (Release), **机理** (Mechanism), **靶向** (Targeting), **侧向** (Lateral), **流动** (Flow), **设计** (Design), **机理** (Mechanism), **修饰** (Modification), **调控** (Regulation), **靶点** (Targets), **药物** (Drugs).

The interface includes a control panel with buttons for **Visualize**, **Undo**, **Redo**, **Animate**, **Edit**, **Lock**, and **Reset**. The settings panel on the left allows for customization of **WORDS**, **SHAPES**, **FONTS**, **LAYOUT**, and **STYLE**. The **STYLE** section includes options for **Words colors** (Shape, Custom), **Color emphasis** (0%), **Background color** (Make transparent), **Background image** (81%), **Animation speed** (0.17s), **Zoom** (checked), **Rotate** (checked), and **Rollover text color** (box color).

EndNote X9 - [2019 aptamer.en]

File Edit References Groups Tools Window Help

Annotated

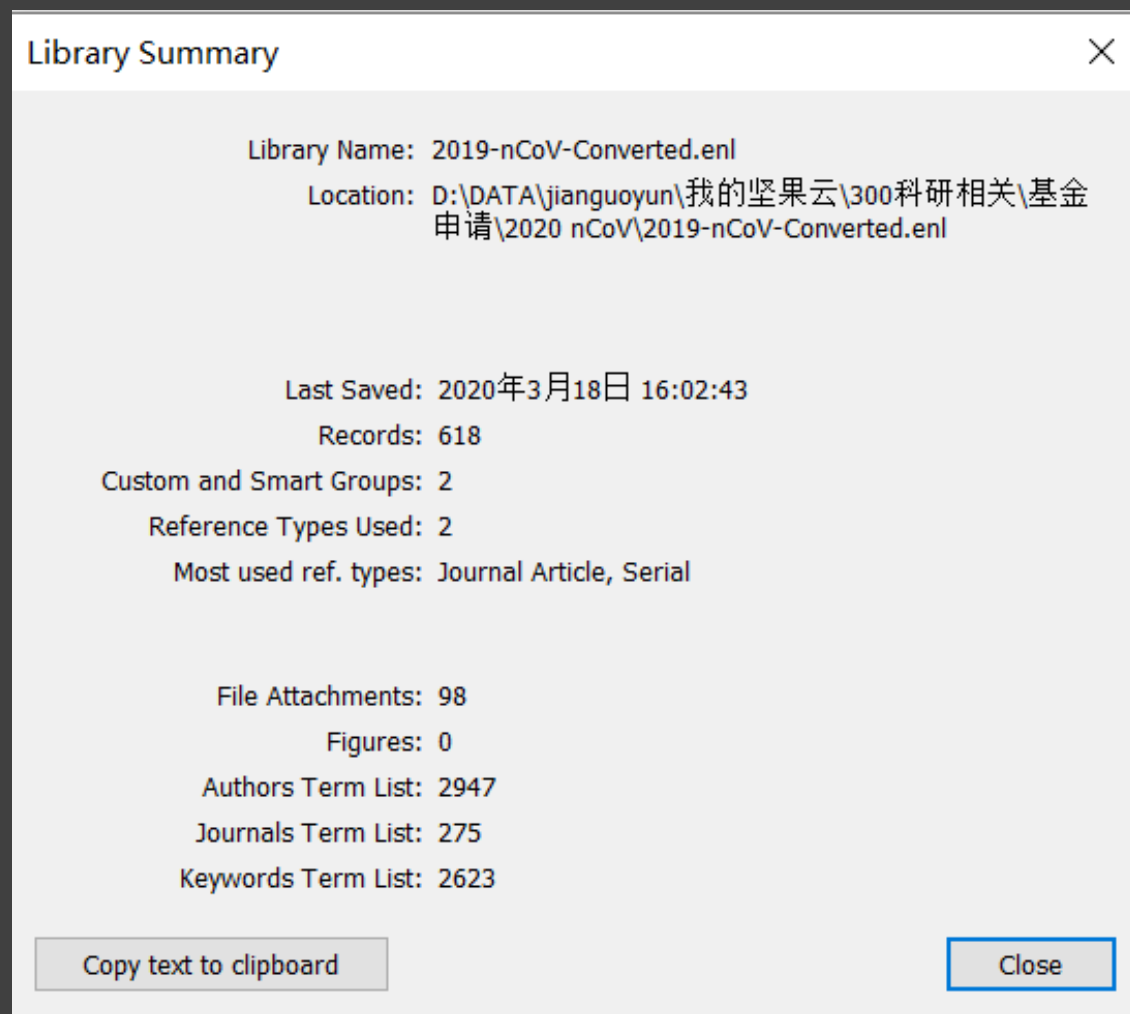
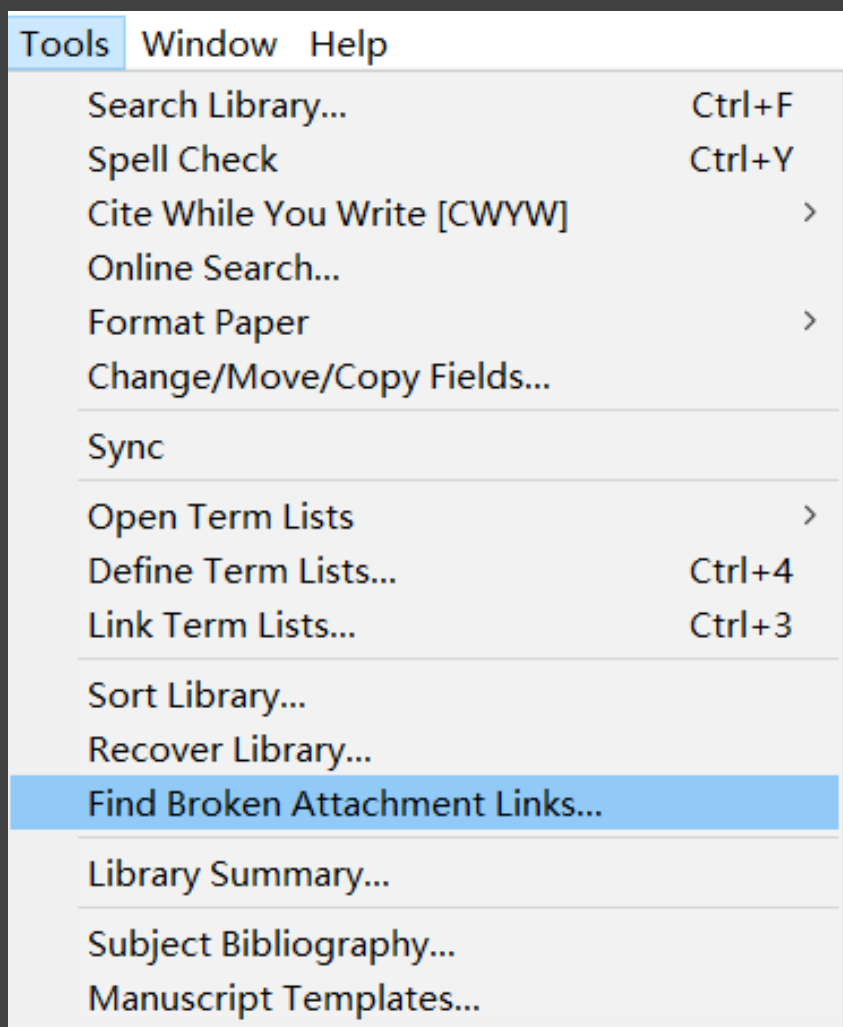
Quick Search Show Search Panel

	Recorder...	Rating	Title
○	1		A dual signal amplification method for exosome detection based on DNA dendrimer self-assembly
●	2		Characterization of ssDNA aptamers specifically directed against Trachinotus ovatus NNV (GTONNV)-infected cells with antiviral activity
●	3		Proteomic Profiles in Advanced Age-Related Macular Degeneration Using an Aptamer-Based Proteomic Technology
●	5		Terahertz Spectroscopic Signatures of Microcystin Aptamer Solution Probed with a Microfluidic Chip
●	6		Amplified colorimetric detection of tetracycline based on an enzyme-linked aptamer assay with multivalent HRP-mimicking DNAzymes
●	7		An Exploration of aptamer internalization mechanisms and their applications in drug delivery
●	8		Fabrication of pioneering 3D sakura-shaped metal-organic coordination polymers Cu@L-Glu phenomenal for signal amplification in high-sensitivity detection of aflatoxin B1
●	9		A ratiometric nanoprobe for biosensing based on green fluorescent graphitic carbon nitride nanosheets as an internal reference and a green fluorescent aptamer as a signal probe
●	10		Electrochemiluminescence nanogears aptasensor based on MIL-53(Fe)@CdS for multiplexed detection of kanamycin and neomycin
●	11		An aptamer based thermofluorimetric assay for ethanolamine
●	12		Selection of highly specific aptamers to Vibrio parahaemolyticus using cell-SELEX powered by functionalized graphene oxide and rolling circle amplification
●	13		2D-porphyrinic covalent organic framework-based aptasensor with enhanced photoelectrochemical response for the detection of C-reactive protein
●	14		Electrochemical aptasensor for aflatoxin B1 based on smart host-guest recognition of beta-cyclodextrin polymer
●	15		Putative Mechanisms Underlying High Inhibitory Activities of Bimodular DNA Aptamers to Thrombin
●	16		Signal-on electrochemiluminescence aptasensor for bisphenol A based on hybridization chain reaction and electrically heated electrocatalytic amplification
●	17		Internalization of aptamer-based aptasensor under a hydrophobic membrane for bioelectronic nose applications
●	18		PET imaging of HEK2 expression with an 18F-fluoride labeled aptamer
●	19		Smart Nanodrug with Nuclear Localization Sequences in the Presence of MMP-2 To Overcome Biobarriers and Drug Resistance
●	20		Aptamer lateral flow assays for rapid and sensitive detection of cholera toxin
●	21		Split Dapoxyl Aptamer for Sequence-Selective Analysis of NASBA amplicons
●	22		Biofabrication of nano copper oxide and its aptamer bioconjugate for delivery of mRNA 29b to lung cancer cells
●	23		Employing AgNPs doped amidoxime-modified polyacrylonitrile (PAN-oxime) nanofibers for target induced strand displacement-based detection of aflatoxin B1
●	24		Aptamer-Based Fluorometric Ochratoxin A Assay Based on Photoinduced Electron Transfer
●	25		An In Vitro Investigation of Cytotoxic Effects of InP/Zns Quantum Dots with Different Surface Chemistries
●	26		Fabrication of an ultrasensitive and selective electrochemical aptasensor to detect carcinoembryonic antigen by using a new nanocore
●	27		Selective detection of cytochrome C by microchip electrophoresis based on an aptamer strategy
●	28		Artificial Antibody with Site-Enhanced Multivalent Aptamers for Specific Capture of Circulating Tumor Cells
●	29		Aptamer Structure Switch Coupled with Horseradish Peroxidase Labeling on Microplate for Sensitive Detection of Small Molecules
●	30		Design of a microfluidic chip consisting of micropillars and its use for the enrichment of nasopharyngeal cancer cells
●	31		A Versatile and Ultrasensitive Electrochemiluminescence Biosensor for Biomarker Detection Based on Non-enzymatic Amplification of a Signal
●	32		High-throughput biosensing of horseradish peroxidase in human plasma based on enzyme-linked aptamer assay using anti-idiotypic DNA aptamer

Showing 1358 of 1358 references.

keywords

文献数据库概览



4 如何对文献进行快速筛选

除了检索时的筛选外，针对本地的文献推荐二分法进行筛选

4

快速筛选文献的方法：二分法

1. **二分法**：就是每次只分两类，减少判断决策时间；分成两类：需要进一步阅读的和不需要看的
2. 第一步：有价值的和**不确定的**予以保留，无价值丢弃
3. 第二步：浏览论文的摘要，继续按二分法分类
4. 第三步：挑选出来的文献，直接自动下载全文
5. 第四步：阅读标题或摘要，加标签；统计标签
6. 第五步：阅读文献，并做笔记

EndNote X9 - [My EndNote Library.enl]

File Edit References Groups Tools Window Help

Annotated

Quick Search Show Search Panel

二分法筛选文献

	Record...	Rating	Title
<input type="radio"/>	1	★	Cell-Surface-Anchored Ratiometric DNA Nanoswitch for Extracellular
<input type="radio"/>	2		An Aptamer-Based Near-Infrared Fluorescence Nanoprobe for Detecti
<input type="radio"/>	3		Rapid Capture and Non-destructive Release of Extracellular Vesicles using Aptamer-based Magnetic Isolation
<input type="radio"/>	4		Rapid Capture and Nondestructive Release of Extracellular Vesicles Using Aptamer-Based Magnetic Isolation
<input type="radio"/>	5		Mycobacterium tuberculosis strain H37Rv Electrochemical Sensor Mediated by Aptamer and AuNPs-DNA
<input type="radio"/>	6		Morpholino Oligonucleotide Cross-Linked Hydrogels as Portable Optical Oligonucleotide Biosensors
<input type="radio"/>	7		Construction of a Biohybrid Odorant Sensor Using Biological Olfactory Receptors Embedded into Bilayer Lipid Membrane on a Chip
<input type="radio"/>	8		An Aptamer-Based Near-Infrared Fluorescence Nanoprobe for Detecting and Imaging of Phospholamban Micropeptide in Cardiomyocytes
<input type="radio"/>	9		A Mirror Image Fluorogenic Aptamer Sensor for Live-Cell Imaging of MicroRNAs
<input type="radio"/>	10		DNA Sequencing Method Including Unnatural Bases for DNA Aptamer Generation by Genetic Alphabet Expansion
<input type="radio"/>	11		Riboswitch Signal Amplification by Controlling Plasmid Copy Number
<input type="radio"/>	12		Tuning the Performance of Synthetic Riboswitches using Machine Learning
<input type="radio"/>	13		Thermostability Trends of TNA:DNA Duplexes Reveal Strong Purine Dependence
<input type="radio"/>	14		Deconstructing Cell-Free Extract Preparation for in Vitro Activation of Transcriptional Genetic Circuitry
<input type="radio"/>	15		Fluorescent Aptamer-functionalized Graphene Oxide Biosensor for Rapid Detection of Chloramphenicol
<input type="radio"/>	16		siRNA delivery technology for cancer therapy: Promise and challenges
<input type="radio"/>	17		In silico studies of the interaction of the colon cancer receptor and RNA aptamer adsorbed on (1 0 1) facet of TiO2 nanoparticle investigated by molecula
<input type="radio"/>	18		Aptazymes: Expanding the Specificity of Natural Catalytic Nucleic Acids by Application of In Vitro Selected Oligonucleotides
<input type="radio"/>	19		Clinical Applications Targeting Periostin
<input type="radio"/>	20		Nanogold Flower-Inspired Nanoarchitectonics Enables Enhanced Light-to-Heat Conversion Ability for Rapid and Targeted Chemo-Photothermal Therap
<input type="radio"/>	21		An Acidic-Microenvironment-Driven DNA Nanomachine Enables Specific ATP Imaging in the Extracellular Milieu of Tumor
<input type="radio"/>	22		Genetically Encoded, Functional Single-Strand RNA Origami: Anticoagulant
<input type="radio"/>	23		Biologically Inspired, Cell-Selective Release of Aptamer-Trapped Growth Factors by Traction Forces
<input type="radio"/>	24		Microfluidic Technology for Nucleic Acid Aptamer Evolution and Application
<input type="radio"/>	25		Enzyme-Driven Release of Loads from Nucleic Acid-Capped Metal-Organic Framework Nanoparticles
<input type="radio"/>	26		Enzyme-Driven Release of Loads from Nucleic Acid-Capped Metal-Organic Framework Nanoparticles
<input type="radio"/>	27		Light-Inducible Exosome-Based Vehicle for Endogenous RNA Loading and Delivery to Leukemia Cells
<input type="radio"/>	28		Tumor-Specific Aptamer-Conjugated Polymeric Photosensitizer for Effective Endo-Laparoscopic Photodynamic Therapy

Reference Preview Attached PDFs

Showing 50 of 50 references.

5 如何快速获取大量文献信息

太多文献没时间阅读，那就来“听”文献吧


文献输出 + 自动翻译，实现快速浏览

EndNote X9 - [20180929 aptamer top200.enl]

File Edit References Groups Tools Window Help

- New...
- Open Library... Ctrl+O
- Open Shared Library... Ctrl+Shift+O
- Open Recent >
- Close Library Ctrl+W
- Save Ctrl+S
- Save As...
- Save a Copy...
- Revert
- Share...
- Export...**
- Import >
- Print... Ctrl+P
- Print Preview
- Print Setup...
- Compressed Library (.enlx) ...
- Exit Ctrl+Q

Rec...	Year	Ra
5012	2018	
5013	2017	
5014	2017	
5015	2017	
5016	2017	
5017	2017	
5018	2016	
5019	2016	
5020	2015	
5021	2015	
5022	2015	
5023	2015	
5024	2015	
5025	2014	
5026	2014	
5027	2014	



1 → 64⁴

Nature⁴

SELECTION OF SINGLE-STRANDED-DNA MOLECULES THAT BIND AND INHIBIT HUMAN THROMBIN. Nature 355: 564-566, doi:10.1038/355564a0 (1992).⁴

→ APTAMERS: 1 are double-stranded DNA or single-stranded RNA molecules that bind specific molecular targets. Large randomly generated populations can be enriched in aptamers by in vitro selection and polymerase chain reaction 1-11. But so far single-stranded DNA has not been investigated for aptamer properties, nor has a target protein been considered that does not interact physiologically with nucleic acid. Here we describe the isolation of single-stranded DNA aptamers to the protease thrombin of the blood-coagulation cascade and report binding affinities in the range 25-200 nM. Sequence data from 32 thrombin aptamers, selected from a pool of DNA containing 60 nucleotides of random sequence, displayed a highly conserved 14-17-base region. Several of these aptamers at nanomolar concentrations inhibited thrombin-catalysed fibrin-clot formation in vitro using either purified fibrinogen or human plasma.⁴

⁴

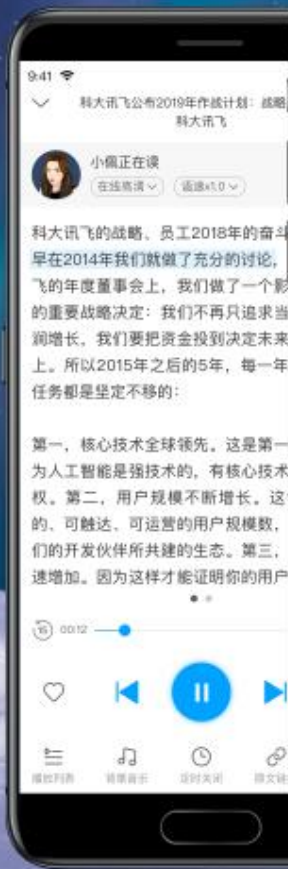
2 → 91⁴

Proceedings of the National Academy of Sciences of the United States of America⁴

THROMBIN-BINDING DNA APTAMER FORMS A UNIMOLECULAR QUADRUPLEX STRUCTURE IN SOLUTION. Proceedings of the National Academy of Sciences of the United States of America 90: 3745-3749, doi:10.1073/pnas.90.8.3745 (1993).⁴

→ We have used two-dimensional H-1 NMR spectroscopy to study the conformation of the thrombin-binding aptamer d(GGTTGGTGGTTGG) in solution. This is one of a series of thrombin-binding DNA aptamers with a consensus 15-base sequence that was recently isolated and shown to inhibit thrombin-catalyzed fibrin-clot formation in vitro [Bock, L. C., Griffin, L. C., Latham, J. A., Vermaas, E. B. & Toole, J. J. (1992) Nature (London) 355: 564-566]. The oligonucleotide forms a unimolecular DNA quadruplex consisting of two G-quartets connected by two TT-loops and one TGT-loop. A potential T.T-bp is formed between the two TT-loops across the diagonal of the top G-quartet. Thus, all of the invariant bases in the consensus sequence are base-paired. This aptamer structure was determined by NMR and illustrates that this molecule forms a specific folded structure. Knowledge of this structure may be used in the further development of oligonucleotide-based thrombin inhibitors.⁴


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2. 如何进行分组管理：

- 手动分组、智能分组、联合创建组、group set等
- 笔记与附件管理，批量修改与备注等

3. 如何快速概览全貌，如何开展简单的分析并输出信息（词云）

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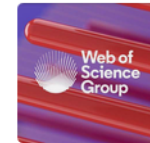


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