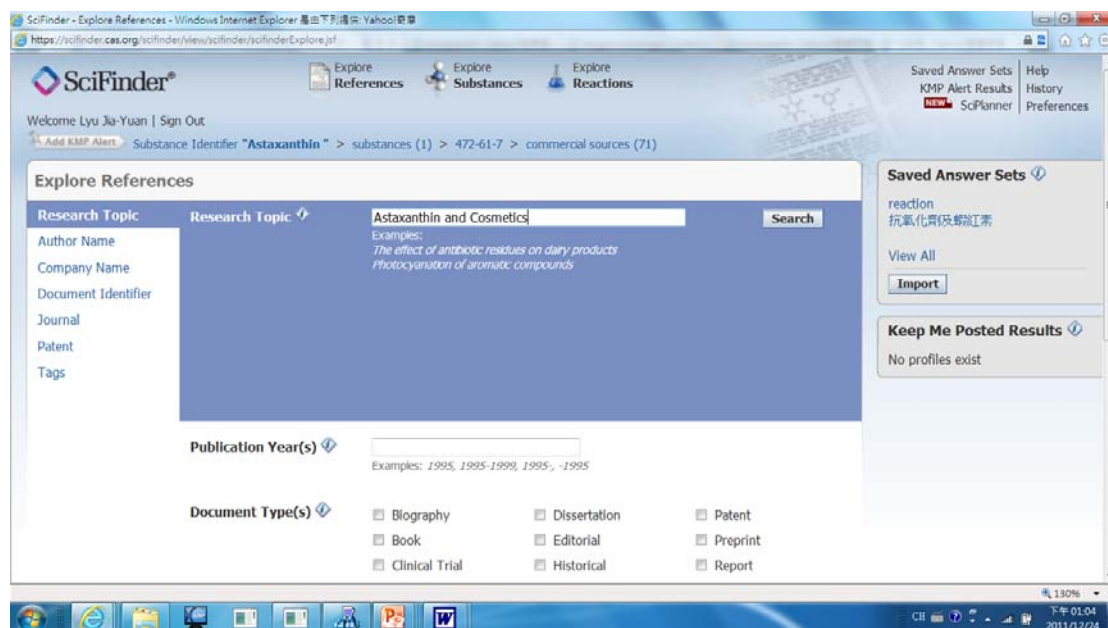
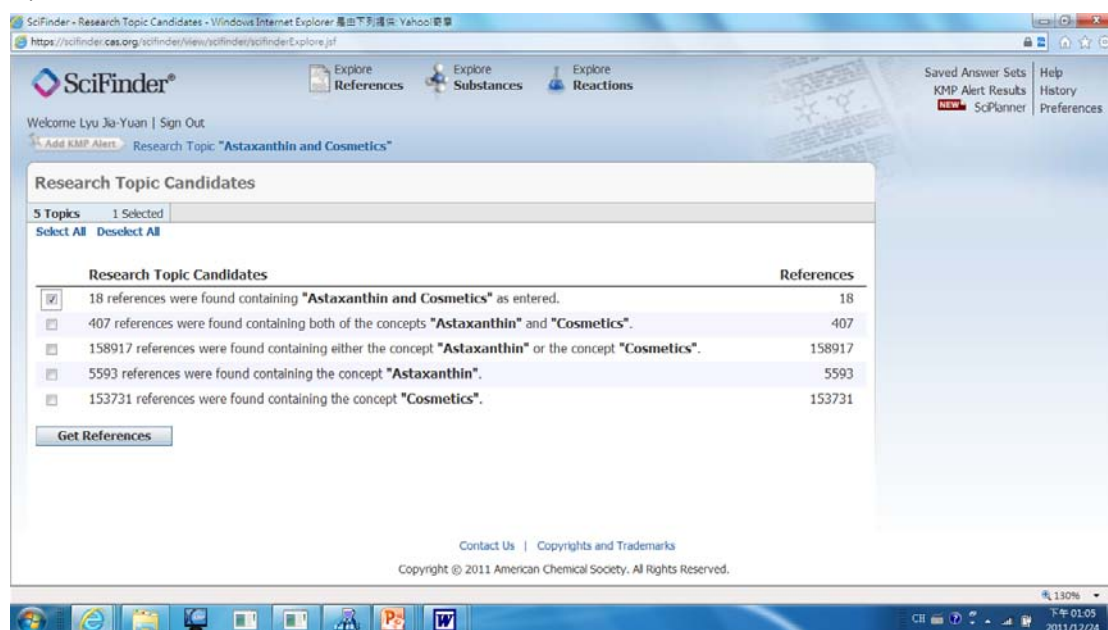


- 操作步驟([Explore References](#))

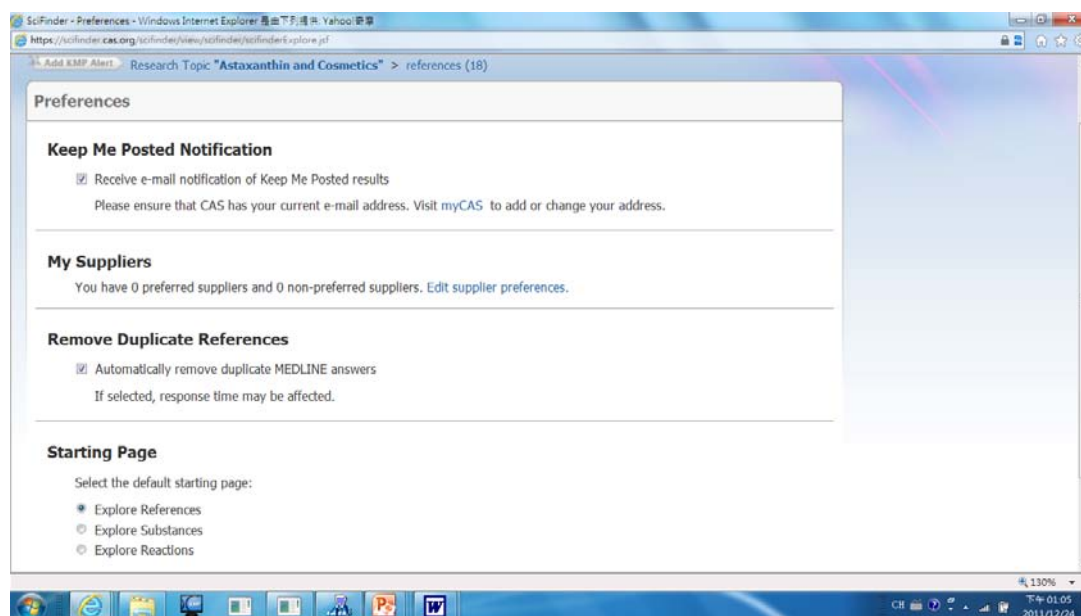
1.



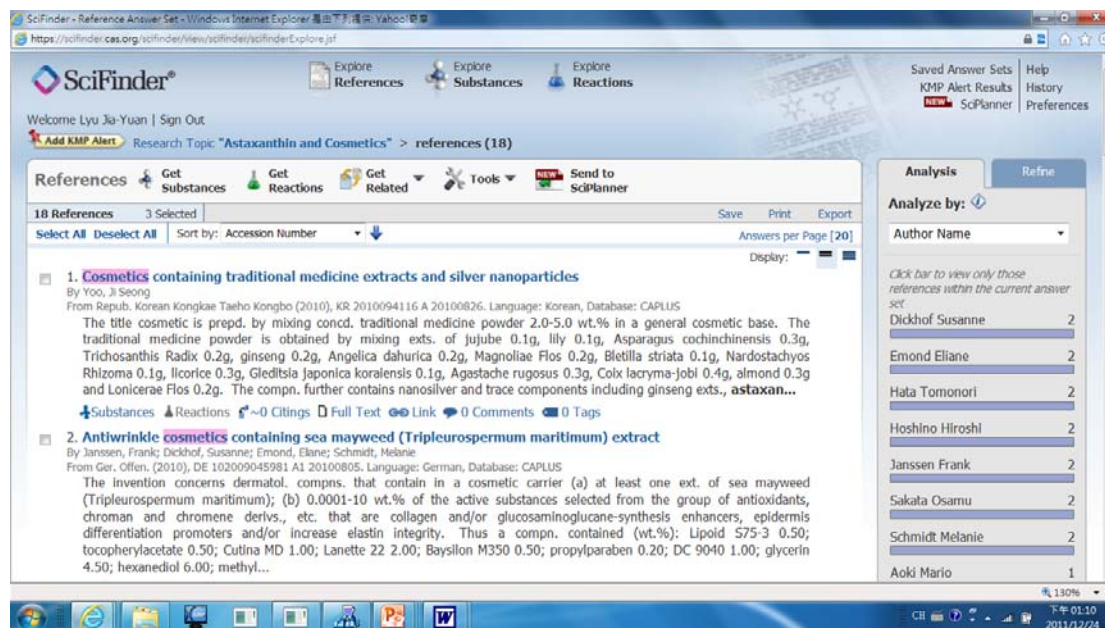
2.



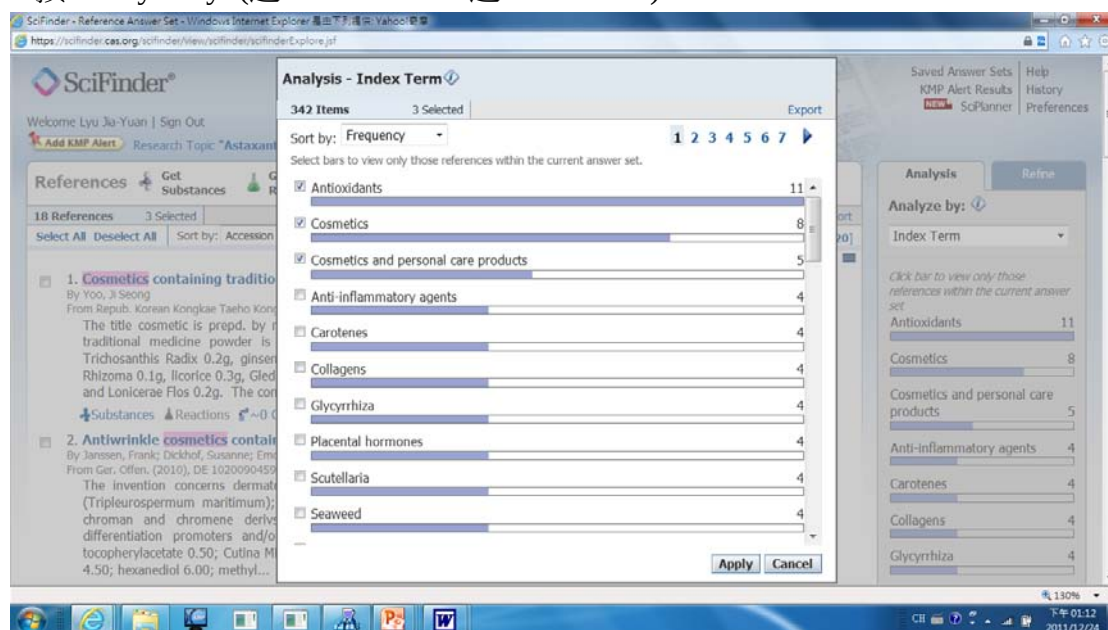
3.按右上的 Preference



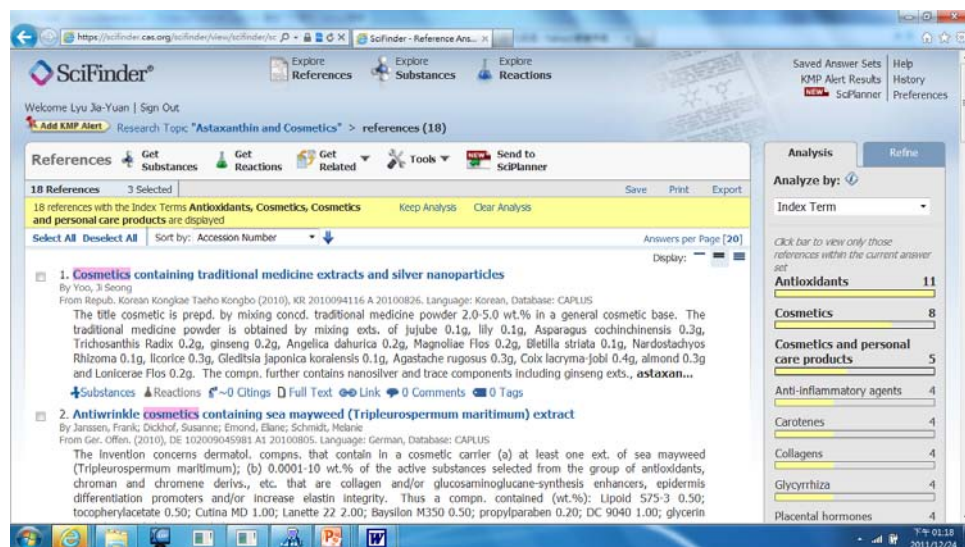
4. 進入



5.按 Analyze by: (選 Index Term 選 show more)



6. 選取所需資料



資料查詢(Explore Substances)

1.

SciFinder®

Welcome Lyu Ja-Yuan | Sign Out

Research Topic "Astaxanthin and Cosmetics" > references (18)

Explore Substances

Chemical Structure
Markush
Molecular Formula
Substance Identifier

Substance Identifier(s) Search

Enter one per line.
Examples:
50-00-0
999815
Acetaminophen

Saved Answer Sets

reaction
抗氧化劑(蝦青素)

View All

Import

Keep Me Posted Results

No profiles exist

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2. 進入

SciFinder®

Welcome Lyu Ja-Yuan | Sign Out

Substance Identifier "Astaxanthin" > substances (1)

Substances

Get References Get Reactions Tools Send to SciPlanner

1 Substance 0 Selected Save Print Export

Select All Deselect All Sort by: CAS Registry Number

1. Substance Detail
472-61-7

C40H52O4

Absolute stereochemistry, Double bond geometry as shown.

C40H52O4

β,β -Carotene-4,4'-dione, 3,3'-dihydroxy-, (3S,3'S)-

Analysis

Analyze by:

Substance Role

Click bar to view only those substances within the current answer set

Substance Role	Count
Analytical Study	1
Biological Study	1
Formation, Nonpreparative	1
Miscellaneous	1
Occurrence	1
Preparation	1
Process	1
Properties	1

3.

SciFinder®

Welcome Lyu Jia-Yuan | Sign Out

Substance Identifier "Astaxanthin" > substances (1) > 472-61-7

Substance Detail | Get References | Get Reactions | Get Commercial Sources | Get Regulatory Info | Send to SciPlanner

Return

CAS Registry Number: 472-61-7

C₄₀ H₅₂ O₄

β,β-Carotene-4,4'-dione, 3,3'-dihydroxy-, (3S,3'S)-

Astaxanthin (6CI); β-Carotene-4,4'-dione, 3,3'-dihydroxy-, all-trans- (8CI); (3S,3'S)-Astaxanthin; (3S,3'S)-Astaxanthin; (3S,3'S)-all-trans-Astaxanthin; (5S)-Astaxanthin; Aquasta; AstaREAL; AstaXin; Astabio AR 5; Astared; Astaxanthin, all-trans; Astots 100; Astots 50; BioAstin; BioAstin oleoresin; Carophyll Pink; Lucantin Pink; NatuRose; Natupink; Ovoester; all-trans-Astaxanthin; trans-Astaxanthin

Deleted CAS Registry Numbers: 346585-67-9

PAGE 1-A

4.得作產物的反應式

SciFinder®

Welcome Lyu Jia-Yuan | Sign Out

Substance Identifier "Astaxanthin" > substances (1) > 472-61-7

Substance Detail | Get References | Get Reactions | Get Commercial Sources | Get Regulatory Info | Send to SciPlanner

Return

CAS Registry Number: 472-61-7

C₄₀ H₅₂ O₄

β,β-Carotene-4,4'-dione, 3,3'-dihydroxy-, (3S,3'S)-

Astaxanthin (6CI); β-Carotene-4,4'-dione, 3,3'-dihydroxy-, all-trans- (8CI); (3S,3'S)-Astaxanthin; (3S,3'S)-Astaxanthin; (3S,3'S)-all-trans-Astaxanthin; (5S)-Astaxanthin; Aquasta; AstaREAL; AstaXin; Astabio AR 5; Astared; Astaxanthin, all-trans; Astots 100; Astots 50; BioAstin; BioAstin oleoresin; Carophyll Pink; Lucantin Pink; NatuRose; Natupink; Ovoester; all-trans-Astaxanthin; trans-Astaxanthin

Deleted CAS Registry Numbers: 346585-67-9

Get Reactions

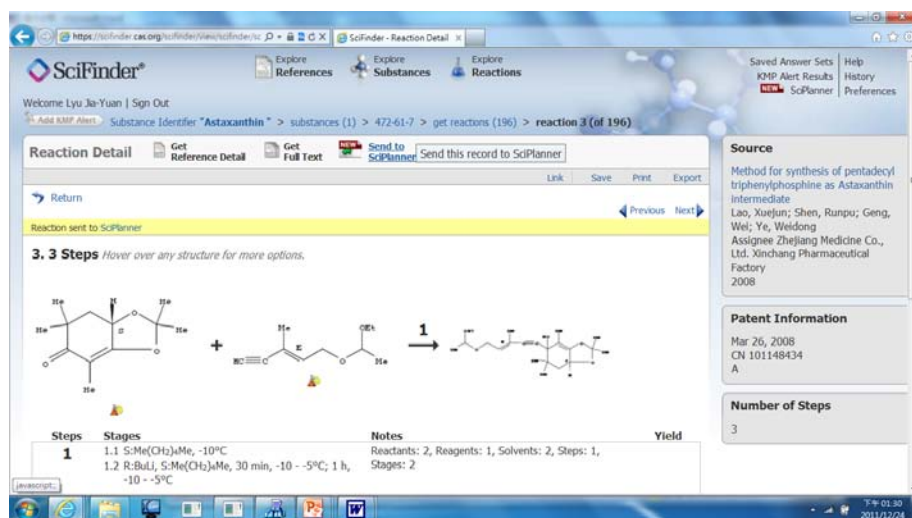
Limit results by reaction role:

- ☒ Product
- ☐ Reactant
- ☐ Reagent
- ☐ Reactant or reagent
- ☐ Catalyst
- ☐ Solvent
- ☐ Any role

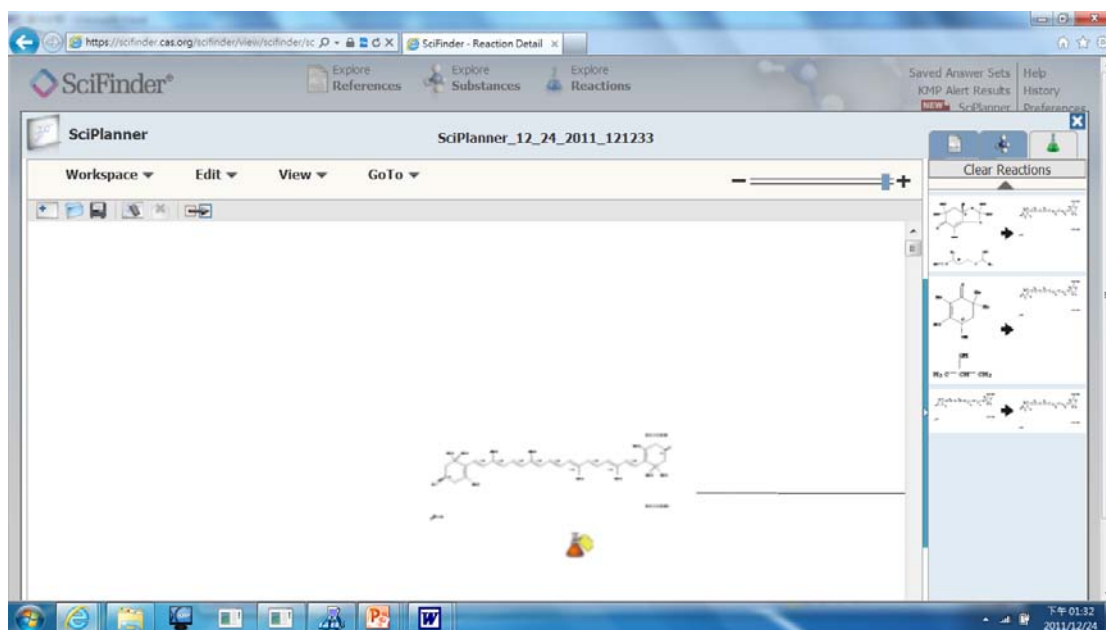
Get Cancel

PAGE 1-A

5. 進入後，選去所需反應，並由 **Send to SciPlanner** 製作



6.



7.也可由產物反應式去得到較高產率的反應式

SciFinder®

Welcome Lyu Ja-Yuan | Sign Out

Substance Identifier "Astaxanthin" > substances (1) > 472-61-7 > get reactions (196)

Reactions | Get References | Tools | Send to SciPlanner

196 Reactions 0 Selected

Select All Deselect All Sort by: Accession Number

Answers per Page [15] 1 2 3 4 5 6 ... 14

Display: [Icons]

1. View Reaction Detail [Link](#) [Similar Reactions](#)
Single Step Hover over any structure for more options.

70%

Overview
Experimental Procedure

2. View Reaction Detail [Link](#)
4 Steps Hover over any structure for more options.

Analysis Refine

Analyze by: [Product Yield](#)

Author Name
Catalyst
Company-Organization
Document Type
Experimental Procedure
Journal Name
Language
Number of Steps
Publication Year
Solvent

Show More

SciFinder®

Welcome Lyu Ja-Yuan | Sign Out

Substance Identifier "Astaxanthin" > substances (1) > 472-61-7 > get reactions (196)

Reactions | Get References | Tools | Send to SciPlanner

196 Reactions 0 Selected

Select All Deselect All Sort by: Accession Number

Answers per Page [15] 1 2 3 4 5 6 ... 14

Display: [Icons]

1. View Reaction Detail [Link](#) [Similar Reactions](#)
Single Step Hover over any structure for more options.

70%

Overview
Experimental Procedure

2. View Reaction Detail [Link](#)
4 Steps Hover over any structure for more options.

Analysis Refine

Analyze by: [Product Yield](#)

Click bar to view only those reactions within the current answer set

Product Yield Range	Count
70-79%	8
80-89%	6
50-59%	1
>=90%	1

Show More

8..直接從商業來源取得原料

The screenshot shows the SciFinder web interface. The browser address bar displays <https://scifinder.cas.org/scifinder/view/scifinder/sc>. The SciFinder logo is at the top left, with navigation links for Explore References, Explore Substances, and Explore Reactions. A user is logged in as 'Lyu Ja-Yuan'. The breadcrumb trail indicates the search path: Substance Identifier 'Astaxanthin' > substances (1) > 472-61-7 > commercial sources (71).

The main section is titled 'Commercial Sources' and shows a list of 71 sources. The first five are visible:

- 2Daybiochem Product List**
Supplier Name: 2Daybiochem Co., Ltd., Catalog Publication Date: 1 Jan 2012
Order Number: DAYB13908, Quantity: N/A
472-61-7 Astaxanthin
[Link](#)
- 3B Scientific Corporation Product List**
Supplier Name: 3B Scientific Corporation, Catalog Publication Date: 1 Jan 2012
Order Number: 3B2-0527, Quantity: 10g
472-61-7 Astaxanthin, 98%
[Link](#)
- 9W Pharmaceutical Technology Product List**
Supplier Name: 9W Pharmaceutical Technology Co., Ltd., Catalog Publication Date: 7 Jun 2011
Order Number: 9W-78034, Quantity: N/A
472-61-7 Astaxanthin
[Link](#)
- AAA Chemicals Product List**
Supplier Name: AAA Chemicals, Catalog Publication Date: 1 Dec 2010
Order Number: AT-A6529, Quantity: N/A
472-61-7 Astaxanthin
[Link](#)
- ACC Corp. Catalog**

On the right side, there is an 'Analyze by:' section with a dropdown menu set to 'Catalog Name'. Below this is a list of commercial sources with corresponding counts:

- Porse Fine Chemical Product List: 4
- Aplichem Chemical Technology Product List: 2
- ChromaDex Product List: 2
- SIGMA: 2
- Wonda Science Product List: 2
- 2Daybiochem Product List: 1
- 3B Scientific Corporation Product List: 1

The bottom of the page shows a Windows taskbar with the date and time: 2011/12/24, 下午 01:28.