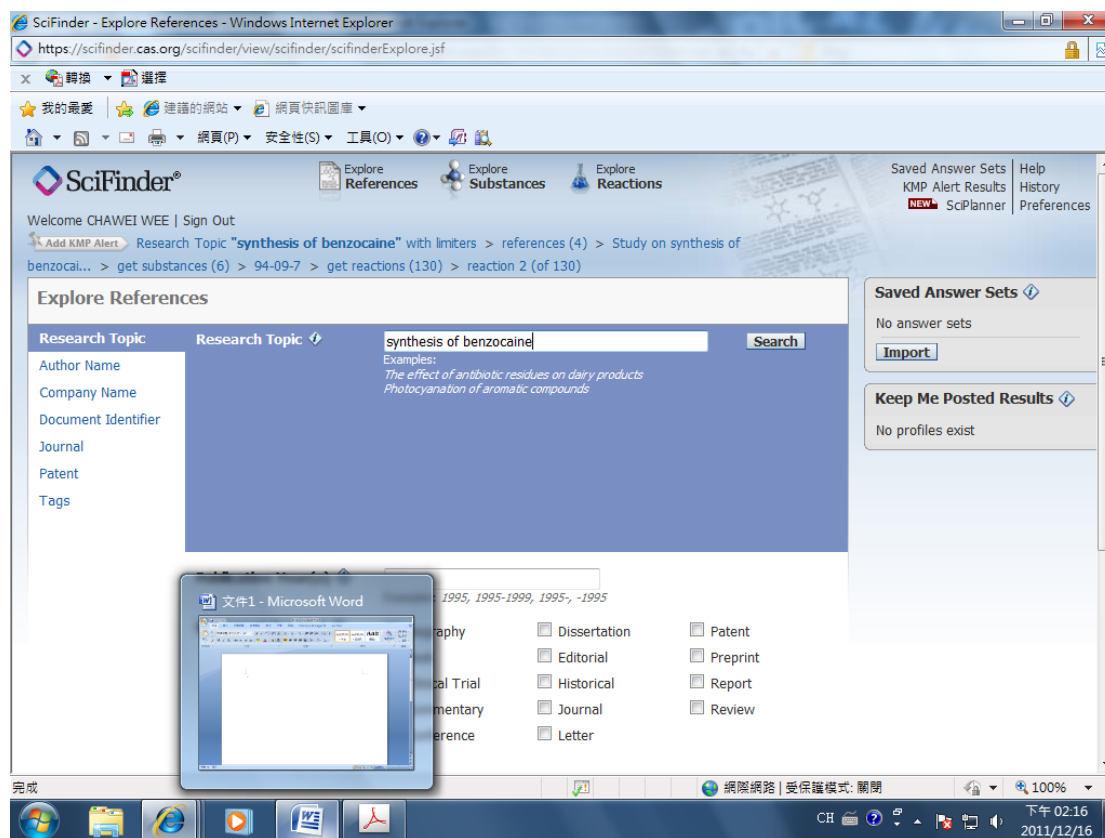


B303098222 陳奕涵

A.	使用 Scifinder 搜尋 Benzocaine
B.	使用 Innovation 搜尋 Iphone
C.	Scifinder 與 innovation 使用心得

A. 使用 Scifinder 搜尋 Benzocaine

1. 搜尋 Synthesis of benzocaine



2. 勾選想要的 topic

SciFinder - Research Topic Candidates - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

Welcome CHAWEI WEE | Sign Out

Research Topic "synthesis of benzocaine" with limiters

Research Topic Candidates

5 Topics 1 Selected

Select All Deselect All

	Research Topic Candidates	References
☒	4 references were found containing "synthesis of benzocaine" as entered.	4
☐	93 references were found containing the two concepts "synthesis" and "benzocaine" closely associated with one another.	93
☐	127 references were found where the two concepts "synthesis" and "benzocaine" were present anywhere in the reference.	127
☐	678180 references were found containing the concept "synthesis".	678180
☐	175 references were found containing the concept "benzocaine".	175

Get References

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3. 選擇 Study on synthesis of benzocaine in laboratory (因為實驗課剛上過)

SciFinder - Reference Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

Welcome CHAWEI WEE | Sign Out

Research Topic "synthesis of benzocaine" with limiters > references (4) > Study on synthesis of benzocaine...

References

4 References 1 Selected

Select All Deselect All Sort by: Accession Number

Save Print Export

Answers per Page [20] Display: [List Icon]

- Synthesis of Benzocaine catalyzed by solid superacid SO42-/ZrO2**
By Liu, Yong-gen; Wu, Liang; Li, Hai-xia; Li, Juan; Li, Wei-hong
From Hainan Yixueyuan Xuebao (2010), 16(9), 1139-1141. Language: Chinese, Database: CAPLUS
A method for the prepn. of 4-aminobenzoic acid Et ester (Benzocaine) was designed and the synthesis of the target compd. was achieved by a reaction of 4-aminobenzoic acid with ethanol using sulfated zirconia (SO42-/ZrO2, solid superacid) as a catalyst. Optimized reaction conditions were detd. and it was discovered that this synthesis method provides high product yield and is environmentally friendly (green chem.).
+Substances +Reactions ~0 Citings Full Text Link 0 Comments 0 Tags
- Study on synthesis of benzocaine in laboratory**
By Ding, Chang-ze
From Dangdai Huagong (2009), 38(3), 228-229, 271. Language: Chinese, Database: CAPLUS
Benzocaine is generally synthesized by oxidn., esterification and reducing reaction from p-nitrotoluene. In this paper, the synthesis of benzocaine from p-nitrotoluene using KMnO4 as oxidant, SnCl4 as catalyst and H2 as reducer was investigated. The results show that the yield of benzocaine can get to 70.3% under the optimal condition.
+Substances +Reactions ~0 Citings Full Text Link 0 Comments 0 Tags
- Improvement in the synthesis of benzocaine**
By Zhang, Bin; Xu, Li-yong
From Zhejiang Gongye Daxue Xuebao (2004), 32(2), 143-145. Language: Chinese, Database: CAPLUS
Using p-Nitrotoluene to synthesize Et p-aminobenzoate needs three steps, i.e. oxidizing, reducing and esterifying. During esterifying, we generally use concd. sulfuric acid as catalyst and the yield is low. The author used Lewis acid as the catalyst and found the yield was raised as high as 67%.

Analysis Refine

Analyze by: Author Name

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

Ding Chang Ze	1
Huang Keming	1
Li Hai Xia	1
Li Juan	1
Li Wei Hong	1
Liu Yong Gen	1
Wu Liang	1
Xu Li Yong	1
Zhang Bin	1

4. 勾選 substance detail 94-09-7

SciFinder - Substance Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

~17,777 References
 Reactions
 Commercial Sources
 Regulatory Information
 Link

☐ 4. Substance Detail 99-99-0

Cc1ccc([N+](=O)[O-])cc1

C₇ H₇ N O₂
 Benzene, 1-methyl-4-nitro-

~5,314 References
 Reactions
 Commercial Sources
 Regulatory Information
 Link

☒ 5. Substance Detail 94-09-7

CCOC(=O)c1ccc(N)cc1

C₉ H₁₁ N O₂
 Benzoic acid, 4-amino-, ethyl ester

~6,019 References
 Reactions
 Commercial Sources
 Regulatory Information
 Link

☐ 6. Substance Detail 62-23-7

OC(=O)c1ccc([N+](=O)[O-])cc1

C₇ H₅ N O₄
 Benzoic acid, 4-nitro-

~6,774 References
 Reactions
 Commercial Sources
 Regulatory Information
 Link

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CH 100% 下午 02:18 2011/12/16

5. 進入 substance detail 94-09-7, 再勾 view reaction detail

SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

References

Microwave-assisted rapid and efficient reduction of aromatic nitro compounds to amines with propan-2-ol over nanosized perovskite-type SmFeO₃ powder as a new recyclable heterogeneous catalyst
 By Farhadi, Saeid et al
 From Journal of Chemical Research, 35(2), 104-108; 2011
 Full Text

Show More

☒ 2. View Reaction Detail Link Similar Reactions

Single Step Hover over any structure for more options.

CCOC(=O)c1ccc(N)cc1 + CCO → CCOC(=O)c1ccc(N)cc1

65%

Overview

Steps/Stages

1.1 R:HCl, S:EtOH, 2 h, reflux
 1.2 R:Disodium carbonate, S:H₂O, neutralized

Notes

HCl gas used, Reactants: 2, Reagents: 2, Solvents: 2, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Synthesis and biological evaluation of amides of aminothiazole derivatives
 By Prajapati, A. K. and Modi, Vishal P.

網際網路 | 受保護模式: 關閉

CH 100% 下午 02:18 2011/12/16

6. 將反應式 send to sciplanner

SciFinder - Reaction Detail - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

Welcome CHAWEI WEE | Sign Out

Research Topic "synthesis of benzocaine" > references (4) > Study on synthesis of benzocaine... > get substances (6) > 94-09-7 > get reactions (130) > reaction 2 (of 130)

Reaction Detail | Get Reference Detail | Get Full Text | Get Similar Reactions | **Send to SciPlanner** | Send this record to SciPlanner

Return | Link | Save | Print | Export | Previous | Next

Reaction sent to SciPlanner

2. Single Step

Hover over any structure for more options.

Nc1ccc(cc1)C(=O)O + CCO → Nc1ccc(cc1)C(=O)OCC

Stages	Notes	Yield
1.1 R: HCl, S: EtOH, 2 h, reflux 1.2 R: Disodium carbonate, S: H ₂ O, neutralized	HCl gas used, Reactants: 2, Reagents: 2, Solvents: 2, Steps: 1, Stages: 2	65%

Company/Organization: Department of Applied Chemistry, Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara, India 390 001

Number of Steps: 1

7. 在 sciplanner 里還可以搜尋 reactant 的 substage detail 等，而這次我要搜尋的是 synthesis of reactant

SciFinder - Reaction Detail - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

SciPlanner | SciPlanner_12_16_2011_144502

Workspace | Edit | View | GoTo

Clear Reactions

Nc1ccc(cc1)C(=O)O → Nc1ccc(cc1)C(=O)OCC

1 → Nc1ccc(cc1)C(=O)OCC → 2 → Nc1ccc(cc1)C(=O)OCC

CAS Registry Number: 55-21-0
 View Substance Detail
 Explore by Structure
 Synthesize this...
 Get Reactions where Substance is a
 Get Commercial Sources
 Get Regulatory Information
 Get References
 Export as Image

8. 點選 synthesis of reactant 後, 會出現 synthesis of reactant 的反應式, 可以勾選 send to sciplanner, 或做其他用途。

SciFinder - Reaction Answer Set - Windows Internet Explorer

https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jsf

我的最愛 | 建議的網站 | 網頁快訊圖庫

substances (6) > 94-09-7 > get reactions (130) > reaction 2 (of 130) > get reactions (769)

Reactions | Get References | Tools | NEW! Send to SciPlanner

769 Reactions | 1 Selected | Save | Print | Export

Select All | Deselect All | Sort by: Accession Number | Answers per Page [15] | 1 2 3 4 5 6 ... 52 | Display: [Icons]

☒ 1. View Reaction Detail Similar Reactions

Single Step Hover over any structure for more options.

OCc1ccccc1 $\longrightarrow$ NC(=O)c1ccccc1

89%

Overview

Steps/Stages	Notes
1.1 R: NH ₃ , R: NaOH, R: O ₂ , C: Co, S: H ₂ O, S: THF, 12 h, 25°C	Reactants: 1, Reagents: 3, Catalysts: 1, Solvents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Powerful Amide Synthesis from Alcohols and Amines under Aerobic Conditions Catalyzed by Gold or Gold/Iron, -Nickel or -Cobalt Nanoparticles
By Soule, Jean-Francois et al
From Journal of the American Chemical Society, 133(46), 18550-18553; 2011
[Full Text](#)

Analysis | Refine

Analyze by: Catalyst

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

56321-86-9	15
Al ₂ O ₃	15
37943-90-1	10
82391-37-5	9
CuBr ₂	9
KOH	9
Dibenzo-18-crown-6	8
Pd(OAc) ₂	8
MnO ₂	7
Pd	7

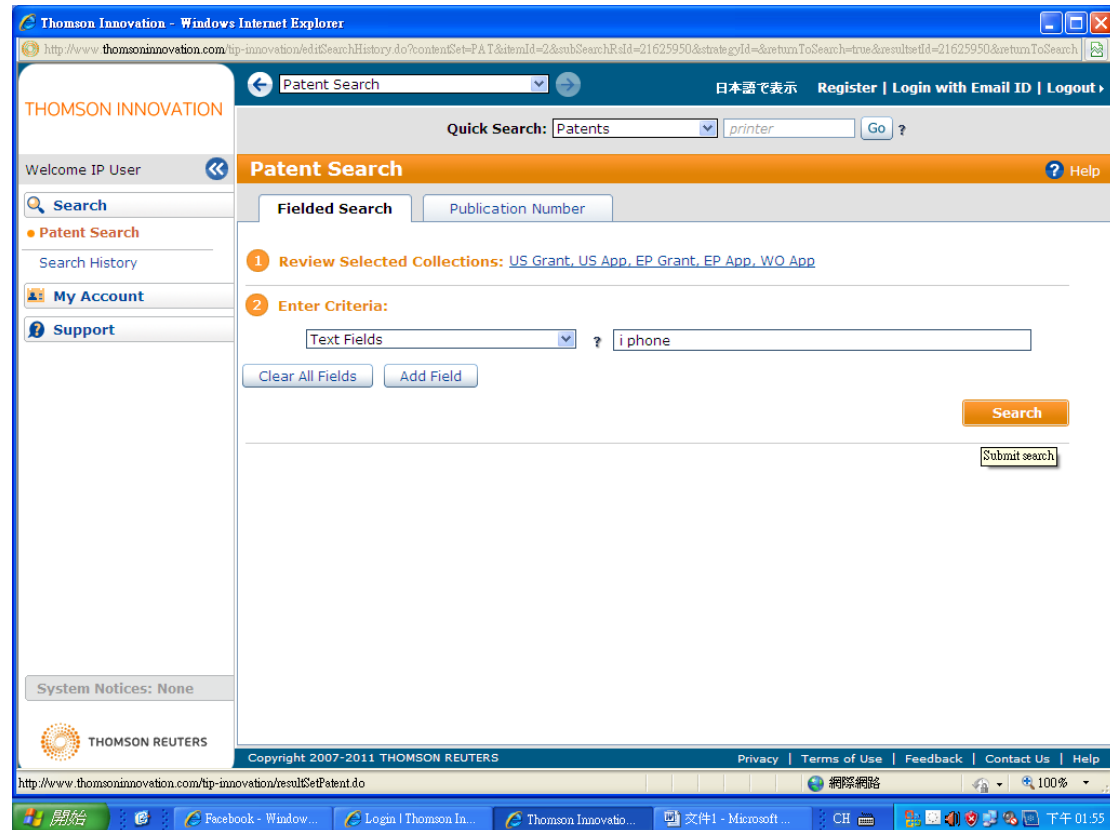
Show More

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上午 03:01 2011/12/16

B. 使用 Innovation 搜尋 Iphone

1. 搜尋 iphone.



2. 勾選想要的主題.

Thomson Innovation - Windows Internet Explorer

http://www.thomsoninnovation.com/tp-innovation/resultSetPatent.do

Patent Result Set 日本語で表示 Register | Login with Email ID | Logout

Quick Search: Patents printer Go ?

Patent Result Set 1,123 records found out of 18,355,361 searched (Display Limit 30,000) ? Help

Return to Search | Display & Sort Options

1 records selected

Save | Alert | Mark List | Download | Charts | Print

Publication Number	Publication Date
☒ US8082065B2	2011-12-20
Title: Communication Interface for Wireless Energy Networks	
☐ US8078413B2	2011-12-13
Title: System to determine connector leaks during testing	
☐ US8078412B2	2011-12-13
Title: Method to determine connector leaks during testing	
☐ US8072394B2	2011-12-06
Title: Video display driver with data enable learning	
☐ US8032426B2	2011-10-04
Title: Automated system for managing baby care products	
☐ US8041062B2	2011-10-18
Title: Personal sound system including multi-mode ear level module with priority logic	

Displaying 1 - 10 of 1123 Page 1 of 113 Go to Page: Go Display: 10 Records per page

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javascript:openRecordViewWindow('recordView.do?pager.offset=0&recordCount=1&parentId=null&totalRecord=1123&f

Facebook - Window... Login | Thomson In... Thomson Innovatio... 文件1 - Microsoft... CH 下午 01:55

3. 出現想要的 abstract .

Thomson Innovation - Windows Internet Explorer

http://www.thomsoninnovation.com/tp-innovation/recordView.do?pager.offset=0&recordCount=1&parentId=null&totalRecord=1123&fromRecordView=false&dataSource=T3&category=PAT&id=US8082065B2

Patent Record View - US8082065B2 Close Record View

Record View: Patent US8082065B2 ? Help

Add to Work File | Mark Record | Watch Record | Download | Translate | Citation Map | Highlight | Print

Full View Jump to: Bibliography Abstract Classes/Indexing Legal Status Family Claims Description Citations Other Quick View

Abstract ?

According to an aspect of the disclosure, an energy management apparatus and method includes a processor operable to manage energy. The processor is configured to convert an incoming message received from a network into XML enabled output data and format an outgoing message to a wireless energy network using XML enabled input data. A communication interface is further configured to detect the outgoing message processor to be output using the wireless energy network; configure the outgoing message bus format, detect the incoming message received from the wireless energy network and convert the incoming message from the message bus format to access the device data.

Classes/Indexing

IPC ?

Current IPC	Invention	Version	Additional
Full	G05D 23/00	20060101	-
Main Group	-	-	-
Subclass	-	-	-

Record 1 of 1123 1 2 3 4 5 6 7 Mark and Next Go to Page Go

Images

Image 1/16 Zoom (+)

400

Power Supply 412 Memory 404 OS 450

Broadband Device 414 Processor 402 Support / Updates 428

Information Network Interface 410 Bus 410

Network Device Profile Module 430 Device Profiles 442 Profile Modifiers 448

Wireless Information Network Device 418 Security Module 434 User Profiles 444 Home Profiles 446

Bus 408 Zigbee 424 WiFi 426 AMI 428

1 2 3 4

下午 01:53

C. Scifinder 與 innovation 使用心得

這次的實驗課與之前不同，是在電腦室而不是在實驗室。一開始覺得是在紙上談兵，因為以我們的程度，不太用得到裡面太專業的資料，不知道要查甚麼也不知道所查的資料對不對，所以覺得有點無聊。

後來要交心得的時候，還是腦袋一片空白，就想說查一查剛做完的實驗-synthesis of benzocaine 好了，結果發現剛上過的實驗一下就查到了，很有優越感，然後才發現老師介紹的真的是好東西，裡面有關 benzocaine 的資料都有，而且都是正確的，不會像使用 google 一樣擔心資料來源。此外還有個好處，那就是可以將資料上傳到手機，非常符合現代人的需求。可是有一點比較麻煩的是，一定要有學校帳號，而且同時只能兩個帳號上線，方便性不大，尤其是作業繳交期限降至時。

Innovation 一開始使用的情況也跟 scifinder 一樣，不知道要從哪裡開始，還好後來漸入佳境。Innovation 是給我們查專利用的網頁，這樣一來就可以省去許多查專利的時間。

總的來說，老師介紹的兩個網頁也許現在身為學生的我們用不到，可是將來無論在藥廠或研究都會用到的。