

CAS / SciFinder Web Basic Training

2009.10





• SciFinder Web新介面介紹

• 文獻檢索(Explore Reference)

- 物質檢索(Explore Substance)
- 反應檢索(Explore Reaction)



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Explore Substances	 >50 million organic and inorganic substances >61 million sequences >1.9 billion predicted and experimental properties, spectra, and data tags, plus >23.8 million proton NMR spectra 1957 to present, plus selected substances back to the early 1900s Commercial source information from >900 suppliers for >26 million substances Regulatory information for more than 245,000 substances 	 Chemical name or CAS Registry Number[®] Molecular formula Chemical structure drawing
Reactions	 >29 million preparations, including >18 million single- and multi-step reactions •1840 to present 	 Reaction structure drawing Functional group transformation



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CAplus ^s M	CAS REGISTRY SM	CASREACT®	CHEMCATS®	CHEMLIST®
 >31M bibliographic records >10K journals covered Patents from 59 patent offices Updated daily (~3K daily) Links to almost 400 publishers and 5 patent offices Literature back to early 1800s Cited articles from 1997 onward 	 >50M small molecules >61M sequences Updated daily (>12K daily) Substances reported comprehensively in literature back to 1957 Includes nomenclature, spectra, and properties (experimental and predicted) 	 >18M single and multi-step reactions Extracted from patents and journal articles Updated weekly (~30K weekly) Reactions back to 1840 Reaction conditions starting in 2003 	 >24M commercially available compounds >900 suppliers >1000 chemical catalogs Updated when new or revised catalogs are available Contact/ordering information including quantity and pricing (when available) 	 >248K inventoried / regulated substances >100 inventories & regulated lists from 1979 to present Updated weekly (~50 additions) Contains regulatory requirements for substances





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立即申請!!

•請向學校圖書館洽詢SciFinder Web 註冊URL,點 選後進入註冊畫面..

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Explore References



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Fro	om Chemistry & I	Industry (London, United Kingtom) (2009), (18), 9. Language: English, Database: CAPLUS	Iijima Sumio
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By l	Liu, Shu-Fang; Y	Yin, Jun-Fa; Song, Mao-Yong; Wang, Hai-Lin exiao Huaxue Xuebao (2009), 30(9), 1733-1738. Language: Chinese, Database: CAPLUS	Yudasaka Masako
	The interaction	tion between water-sol, hydroxylated single-wall carbon nanotube and human serum albumin and other related effects were investigated using spectroscopy, absorption spectroscopy, synchronous fluorescence spectroscopy and transmission electron microscopy (TEM) methods.	Ajayan Pulickel M
	Fluorescence	s spect oscopy also pitch spect oscopy, synchronous indices indices are quenching of human serum albumin by a hydroxylated single-wall carbon nanotube was obsd., indicating the interaction between them occurs.	Bando Yoshio
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	-	s 🕹 Reactions 🕈 Citing D Full Text 🗢 Link 🗬 0 Comments D 0 Tags	Chen George Z

感興趣(或最終篩選得到)的文章,可<u>透過"Link"功能</u>快速複製一串 URL(物質/反應檢索亦同),此URL可分享給他人。只要登入SF Web 並貼上此URL即可快速獲得此篇文獻,<u>減少重複查詢</u>的工作。

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Answers per Page

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to nonlinear, ai

1. Energy flow, thermoelectricity and Fourier's law at the nanoscale

By Dubi, Yonatan; Di Ventra, Massimiliano

From arXiv.org, e-Print Archive, Condensed Matter (2009), 1-29, arXiv:0910.0425v1 [cond-mat.mes-hall]. Language: English, Database: CAPLUS Advances in the fabrication and characterization of **nanoscale** systems now allow for a deeper understanding of one of the most technol.: the flow of energy at the microscopic level. This knowledge is also likely to impact our ability to build more efficient de storage and conversion. In this Colloquium we survey recent advances and present understanding of phys. mechanism **nanostructures**. We examine basic issues such as thermoelectricity, local temp. and heating, and the relation between energy c.d

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Damping of a nanomechanical oscillator str

By Bennett, Steven D.; Cockins, Lynda; Miyahara, Yoichi; Gr From arXiv.org, e-Print Archive, Condensed Matter (2009), 1 We present theor. and exptl. results on the med the cantilever oscillation amplitude is large, its n of the cantilever. We observe highly asym. line excellent agreement with our strong counling the

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the cantilever oscillation amplitude is large, its n Create a bookmark, save in a document, or e-mail to a colleague.

of the cantilever. We observe highly asym. lineshapes or couromo prockade peaks in the damping that renect the degeneracy of excellent agreement with our strong coupling theory. Furthermore, we predict that excited state spectroscopy is possible by s...







Tags:於文獻檢索區中可點選Tags查看<u>自己與連結人員</u>所設定的資料,以加速文獻分享與團隊合作研究。



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SciFind	pic: nano technology		20



分析欄位增加"<u>CA Concept Heading</u>",可更清楚了解文獻檢索結 果中包含的"<u>重要觀念</u>"。點選"<u>Full Analysis</u>"可秀出每個分析選項 的筆數,也可點選"<u>more</u>"做完整的分析查看。



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Electroluminescent devices	105
Field emission displays	98

點選感興趣的分析項目(ex. Nanocomposites),結果會先<u>以黃色</u> <u>區塊</u>表示,並在其他分析項目中<u>以黃色表示重複文章所佔比例</u>。 若此分析結果為所需,則點選"keep analysis"!!



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	By Tseng, Yao-Hung From Journal of Phy A fabrication of microcrystal w each other thr	ynthesis of Nacrelike Faceted Mesocrystals of 2nO-Gelatin Composite g; Lin, Hsia-Yu; Liu, Ming-Han; Chen, Yang-Fang; Mou, Chung-Yuan vsical Chemistry C (2009), 113(42), 18053-18061. Language: English, Database: CAPLUS of ZnO hierarchical mesocrystal was achieved by a biomimetic method using gelatin as structure-directing agent. It was found with well-defined hexagonal twin plate shape is built by the stacking of nanoplates . The irregularly edged nanoplates can roughout the microcrystal, resulting in a roughly hexagonal edge. Selected area electron diffraction (SAED) anal. of the ZnC	adjust	t themse	lves to	•	Click bar to view references with set Nanocompos Polymer mor	hin the curre. sites	
		that all the stacked nanoplates are aligned and oriented to form a single-crystal structure with hexagonal sy Acceptions Citing Drull Text Colline Comments 1 Tag						p. 10.097	
	-	and Improvement on Separation of Photoinduced Charge Carriers in CdS-Metal Nanoheterostructures					Nanoparticles	3	167
	By Cheng, Wei-Yun; From Journal of Phy	; Chen, Wei-Ta; Hsu, Yung-Jung; Lu, Shih-Yuan /sical Chemistry C (2009), 113(40), 17342-17346. Language: English, Database: CAPLUS		41			Thermal stab	oility	165
	replacement o of the CdS NW	ate the feasibility of modulating and improving the sepn. of photoinduced charge carriers of CdS-M nanoheterostruct of S with two group 16 elements of larger at. size, Se and Te. With the incorporation of Se or Te into the CdS nanowires (N Vs were effectively passivated, enabling a fuller extent of participation of the photoinduced electrons in the charge sepn. proce need photoluminescence quenching and photocurrent depression for the CdS1-xSex and CdS1-xTex NWs. The present study p	Ns), th ss, thu	ne defect	states		Glass transiti temperature		129
	+Substances	🛦 Reactions 🕈 Citing 🛛 Full Text 👄 Link 🗬 O Comments 🔝 O Tags					Microstructur	e	114
	By Wang, Yeh; Huar	chanical study of clay dispersion in maleated polypropylene/organoclay nanocomposites ng, Syh-W.; Guo, Jiang-Y. politer (2009), 20(9), 1218-1225, Language: English, Databaser COPLUS					Nanotubes		103



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Welcome Coach Hsu Sign Out Create Keep Me Posted Research Topic "nano technology" > references (713700) > refine "taiwan" (12943) > keep analysis "CA Concept Heading" (904)	7
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A fabrication of ZnO hierarchical mesocrystal was achieved by a biomimetic method using gelatin as structure-directing agent. It was found that the ZnO-gelatin microcrystal with well-defined hexagonal twin plate shape is built by the stacking of nanoplates . The irregularly edged nanoplates can adjust themselves to	Nanocomposites 904
each other throughout the microcrystal, resulting in a roughly hexagonal edge. Selected area electron diffraction (SAED) anal. of the ZnO-gelatin microcrystal demonstrates that all the stacked nanoplates are aligned and oriented to form a single-crystal structure with hexagonal sy	Polymer morphology 249
	Nanoparticles 167
By Cheng, Wei-Yun; Chen, Wei-Ta; Hsu, Yung-Jung; Lu, Shih-Yuan From Journal of Physical Chemistry C (2009), 113(40), 17342-17346. Language: English, Database: CAPLUS	Thermal stability 165
We demonstrate the feasibility of modulating and improving the sepn. of photoinduced charge carriers of CdS-M nanoheterostructures through partial replacement of S with two group 16 elements of larger at. size, Se and Te. With the incorporation of Se or Te into the CdS nanowires (NWs), the defect states	Glass transition temperature 129
of the CdS NWs were effectively passivated, enabling a fuller extent of participation of the photoinduced electrons in the charge sepn. process, thus resulting in a more pronounced photoluminescence quenching and photocurrent depression for the CdS1-xSex and CdS1-xTex NWs. The present study p	
🕹 Substances 🛦 Reactions 💕 Citing D Full Text 👄 Link 🗬 0 Comments D 0 Tags	Microstructure 114
3. Dynamic mechanical study of clay dispersion in maleated polypropylene/organoclay nanocomposites By Wang, Yeh; Huang, Syh-W.; Guo, Jiang-Y.	Nanotubes 103
From Polymer Composites (2009), 30(9), 1218-1225. Language: English, Database: CAPLUS Morphol. characteristics and the dynamic mech. properties of maleic anhydride grafted polypropylene (PPgMA) and its clay-filled nanocomposites with different	Tensile strength 97
degrees of clay exfoliation have been investigated. Fully and partially exfoliated samples were prepd. through powered sonication and melt blending, resp. Our results indicated that both mech. a and B relaxations can be identified. The alass (B) transition of the nanocomposites shifted to slightly lower temps, for Part of the process.	Young's modulus 93

分類(Categorize), 位於<u>分析欄位下方</u>, 點選後會 出現大型對話框, <u>選擇每一階層感興趣的欄位</u>, 點選"Refine"即可進行分類!!



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All Technology Physical chemistry General chemistry Synthetic chemistry Environmental chemistry Catalysis Genetics & protein chemistry Analytical chemistry Biotechnology Biology	Proteins & peptides (45) Miscellaneous substances (45) Nucleic acids (7) Genetics (4) Protein & peptide topics (2)	Select All Deselect All Transformation, genetic Chromosome PCR (polymerase chain reaction) Plasmids	211	Click 'X' to remove the term or entire category from 'Selected Terms' Technology > Ceramics(3) Hybrid organic-inorganic materials Annealing Sintering Catalysis > Catalysis(2) Catalysts Photolysis catalysts Genetics & protein chemistry > Genetics(2) Transformation, genetic Chromosome

點選文章進入後,右側是<u>文章相關資訊</u>,下方為 經CA科學家<u>整理後的精華區塊</u>,如Indexing、 Concepts、Substances..等!!

Reference Detail & Get & Get Cet Cet Cet Cet Cet	Get Full Text	Quick Links
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	Previous Next	
2. Modulation and Improvement on Separation of Photoind By: Cheng, Wei-Yun; Chen, Wei-Ta; Hsu, Yung-Jung; Lu, Shih-Yuan	Source Journal of Physical Chemistry C Volume 113 Issue 40	
We demonstrate the feasibility of modulating and improving the sepn. of photoinduca two group 16 elements of larger at. size, Se and Te. With the incorporation of Se o passivated, enabling a fuller extent of participation of the photoinduced electrons in t quenching and photocurrent depression for the CdS1-xSex and CdS1-xTex NWs. Th through the improvement in retarding the recombination of photoinduced charge car	Pages 17342-17346 Journal 2009 CODEN: JPCCCK ISSN: 1932-7447	
Indexing		Company/Organization
Optical, Electron, and Mass Spectroscopy and Other Related Properties (Section 73-5) \circledast		Department of Chemical Engineering National Tsing Hua University Hsinchu, Taiwan 30013
Section cross-reference(s): 76, 74		
Concepts 🚸	Substances 🊸	Accession Number
Charge separation Electric current-potential relationship Exciton luminescence Luminescence quenching	1306-23-6P Cadmium sulfide (CdS) 107103-13-9P Cadmium selenide sulfide (CdSe0.1S0.9)	2009:1119730 CAPLUS
Nanocomposites Nanoparticles Nanowires Passivation	149293-62-9P Cadmium sulfide telluride (CdS0.95Te0.05)	Publisher
Photocurrent Photoelectrons Photolysis catalysts Suspensions	modulation and sepn. of photoinduced charge carriers in CdS-metal nanoheterostructures	American Chemical Society
medulation and copn. of photoinducod chargo carriors in CdS-motal	Catalyst use; Properties; Synthetic preparation; Technical or engineered	Language



Concepts區塊提供超連結點選,方便研究人員 快速轉換至相關主題!!

Indexing

Optical, Electron, and Mass Spectroscopy and Other Related Properties (Section 73-5) \circledast

Section cross-reference(s): 76, 74

Concepts 🚸

Charge separation	Electric current-potential relationship			
Excition luminescence	Luminescence quenching			
Nanocomposites	Nanoparticles			
Nanowires	Passivation			
Photocurrent	Photoelectrons			
Photolysis catalysts	Suspensions			

modulation and sepn. of photoinduced charge carriers in CdS-metal nanoheterostructures



Substances區塊提供本文章中相關物質超連結 點選,方便研究人員快速查看相關物質資訊, 下方並有此物質在本文章中扮演的角色說明!!

Substances 🚸 1306-23-6P Cadmium sulfide (CdS) 107103-13-9P Cadmium selenide sulfide (CdSe0.1S0.9) 149293-62-9P Cadmium sulfide telluride (CdS0.95Te0.05) modulation and sepn. of photoinduced charge carriers in CdS-metal nanoheterostructures Catalyst use; Properties; Synthetic preparation; Technical or engineered material use; Preparation; Uses 7440-22-4P Bilver 7440-50-8P Copper modulation and sepn. of photoinduced charge carriers in CdS-metal nanoheterostructures Physical, engineering or chemical process; Properties; Synthetic preparation; Technical or engineered material use; Preparation; Process; Uses 7447-39-4 Copper chloride (CuCl2)

7704-34-9 Sulfur 7761-88-8 S Iver nitrate 7782-49-2 Selenium 10325-94-7 13494-80-9 Tellurium

modulation and sepn. of photoinduced charge carriers in CdS-metal nanoheterostructures

Reactant; Reactant or reagent

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Repeating tool及VAP可針對複雜結構進行模糊 參數設定,檢索時亦有SSM模組(Substructure, Similarity)可供模糊比對搜尋。



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Substance Detail:更清楚易懂的 排列方式,讓研究人員快速掌握物 質的相關性質與連結相關資訊。



	Substance Detail:可點選感興趣的類別,即可 <u>快速串</u> <u>連至相關文獻</u> 。專利中屬於 <u>預測性的物質(Prophetic)</u> 亦會被特別標示。							
	Document Type Report	ocument Types: Conference, Diss eport		of Get Substances		🖻 Get Cited	es (1) > 500-22-1	Add Tags
	CAplus Role Analytical study Biological study	Patents Nonpat	Select All Deselect All Sort by: Accession Number ▼ I. Hair dyes containing an indolium derivative and a carbonyl compound By Gross, Wibke; Oberkobusch, Doris; Nemitz, Ralph From Ger. Offen. (2009), DE 102008062234 A1 20091015. Language: German, Database: CAPLUS The invention concerns hair dyes that contain (a) at least one indolium deriv. of the Thus 1-[3-(diethoxyphosphorylpropyl)-2,3,3-trimethyl]-3H-indolium bromide was syn					
	Combinatorial study Formation, nonpreparative Miscellaneous			ne pH was set wit	n ammonia and tartar	ric acid re:	sp.	
	Occurrence Preparation	/ / /		<i>.</i>				
	Process Properties							
5	Prophetic in patents Reactant or	× 🛶 🗿	- 利中屬於可預與 ✓	性的物質・ √				
Scil	reagent Uses	× ×	 Image: A second s	×.				36
Substance Detail:經由系統推導演算所<u>預測的物質</u> <u>特性</u>包含NMR光譜,並已完整分類。可點選預測性光 譜圖(見下頁)。

Predicted Properties:	Biological Chemical	Density L	ipinski and Related Spectra Structure-related Thermal		
Biological Properties		Value	Conditions	Notes	Тор
Bioconcentration Factor		1.0	pH 1 Temp: 25 °C	(50)	
Bioconcentration Factor		1.0	pH 2 Temp: 25 °C	(50)	
Bioconcentration Factor		1.0	pH 3 Temp: 25 °C	(50)	
Bioconcentration Factor		1.25	pH 4 Temp: 25 °C	(50)	
Bioconcentration Factor		1.55	pH 5 Temp: 25 °C	(50)	
Bioconcentration Factor		1.59	pH 6 Temp: 25 °C	(50)	
Bioconcentration Factor		1.59	pH 7 Temp: 25 °C	(50)	
Bioconcentration Factor		1.59	pH 8 Temp: 25 °C	(50)	
Bioconcentration Factor		1.59	pH 9 Temp: 25 °C	(50)	
Bioconcentration Factor		1.59	pH 10 Temp: 25 °C	(50)	
Chemical Properties		Value	Conditions	Notes	Тор
Кос		1.0	pH 1 Temp: 25 °C	(50)	
Кос		1.88	pH 2 Temp: 25 °C	(50)	
Кос		13.2	pH 3 Temp: 25 °C	(50)	
Lipinski and Related Prop	perties	Value	Conditions	Notes	Тор
Freely Rotatable Bonds		1		(50)	
H Acceptors		2		(50)	
H Donors		0		(50)	
H Donor/Acceptor Sum		2		(50)	
logP		0.568±0.258	Temp: 25 °C	(50)	
Molecular Weight		107.11		(50)	
Spectra Properties		Value	Conditions	Notes	Тор
Carbon-13 NMR Spectrum	NEW [®]	See spectrum	n	(51)	
Proton NMR Spectrum		See spectrum	n	(51)	

rait of the process.

Substance Detail: Carbon-13 NMR光譜,由 ACD/Labs以軟體推導演算得出。



rait of the process.

Substance Detail:經由<u>實驗所得到的物質</u> <u>特性</u>包含各式光譜圖,並已完整分類。可 點選各類型的光譜圖參考(見下頁)。

Experimental Properties: Biological Chemical Optical and Scattering Spectra Thermal

Biological Properties	Value	Conditions	Notes	Тор
LC50	See full text		(41) CAS	
LC50	See full text		(42) CAS	
Median Lethal Dose(LD50)	900 mg/kg	Organism: mouse Route: intravenous	(12) CAS	
Chemical Properties	Value	Conditions	Notes	Тор
Acid/Base Dissociation Constant (Ka/Kb)	See full text		(1) CAS	
Solubility	See full text		(41) CAS	
Optical and Scattering Properties	Value	Conditions	Notes	Тор
Refractive Index	1.5507	Wavlen: 589.3 nm; Temp: 20 °C	(49) CAS	
Refractive Index	1.5475	Wavlen: 589.3 nm; Temp: 20 °C	(3) CAS	
Spectra Properties	Value	Conditions	Notes	Тор
Carbon-13 NMR Spectrum	See spectrum		(25) WSS	
Carbon-13 NMR Spectrum	See spectrum		(26) WSS	
Carbon-13 NMR Spectrum	See spectrum		(27) WSS	
Carbon-13 NMR Spectrum	See spectrum		(27) WSS	
Carbon-13 NMR Spectrum	See spectrum		(27) WSS	
Carbon-13 NMR Spectrum	See spectrum		(28) WSS	
Carbon-13 NMR Spectrum	See spectrum		(28) WSS	
Carbon-13 NMR Spectrum	See spectrum		(29) AIST	
Carbon-13 NMR Spectrum	See full text		(30) CAS	
Carbon-13 NMR Spectrum	See full text		(31) CAS	
Carbon-13 NMR Spectrum	See full text		(32) CAS	
Carbon-13 NMR Spectrum	See full text		(33) CAS	
Carbon-13 NMR Spectrum	See full text		(34) CAS	





New features: 若物質檢索有多筆資料, 可透過Refine功能"Property Value"進行篩 選。(見下頁)





Refine:透過指定<u>分子量的大小</u>來限縮檢 索結果。

Refine by Property Value 🚸

	 Select one or more properties. Click each property to display value options. 	2. Specify values and limits.
100.00	Properties - 1 selected	Values - Predicted Molecular Weight
	Experimental Boiling Point Melting Point Predicted H Acceptors H Donors Molecular Weight logP Freely Rotatable Bonds Bioconcentration Factor Boiling Point Density Enthalpy of Vaporization Flash Point H Acceptor/Donor Sum Koc logD Mass Intrinsic Solubility	Specify range: 100 to 300 Min: 0.0 Max: Max: Image: Image: <t< th=""></t<>
	Molar Intrinsic Solubility Molar Solubility	Reset
SciFin	Include substances with no value for the	

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Answer set 6 created with 443473 a REGISTRY	nswers from

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新增Solvent選擇功能,可依需求設計 反應條件。點選小圖後出現畫板,較物 質檢索多出5個專屬按鍵,下方有限制 條件區可供設定。

Explore Reactions



Examples: 1995, 1995 - 1999, 1995 -, - 1995

承接軟體版強大的工具列設計理念,方便 使用者更輕鬆的選擇功能。



45



Part of the process:

46

簡潔的檢索結果瀏覽頁面,<u>自動完</u> <u>成分析統計</u>;<u>Link功能</u>快速複製與 分享重要檢索結果。







Silica-supported dichlorophosphate catalyzed Beckmann rearrangement and dehydration of oximes under microwave irradiation By Li, Zheng and Lu, Zhong From Letters in Organic Chemistry, 5(6), 495-501; 2008



新功能: Similar Reaction,可依照相似程 度不同(筆數多寡),勾選適合的相似反應。



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執行similar reaction結果。

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直接點選感興趣物質,可再進行相 關查詢。



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其他常用功能:

Answer Sets: 可對2個以上的答案群集進行 combine功能。

History: 可下載最新10筆檢索歷程,方便研究人員熟悉檢索策略。

KMP results: 檢索結果更新通知功能設定。



	Saved Answer Sets Help Keep Me Posted Results My Connections Preferences	可 <u>個別以"文獻"、"物質"、"反應"</u> 進行2個以上答案群集的combine 功能。
Save	d Answer Sets 🔘 Combine Answer Sets	
Refe	rences (55) Substances (10) Reactions (3)	
55 Ans	swer Sets 3 Selected Delete Selected Reference Answer Set Details	Date Saved
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	IPAMA_CY with Ak repeat_patent (4) By dopamine Select an option for co	mbining the selected saved answer sets:
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Saved Answer Sets	
Keep Me Posted Results	
NEW My Connections	Preferences

可下載最新10筆歷程並以 Word程式開啟,方便研究 人員了解檢索策略。

History		Previous Sessions
	Print Export	SFSessionHistory-2009-10-
Session began October 27, 2009 at 8:20 PM		27_101211.rtf
Explore substances by <i>substructure</i> structure initiated Query	October 27, 2009 8:26 PM	SFSessionHistory-2009-10- 23_040541.rtf
		SFSessionHistory-2009-10- 23_040401.rtf
		SFSessionHistory-2009-10- 22_011910.rtf
		SFSessionHistory-2009-10- 20_235046.rtf
×		SFSessionHistory-2009-10- 20_233906.rtf
		SFSessionHistory-2009-10-
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		20_200924.rtf
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	November 2009			
	November 12, 2009 3:00 - 4:00 Taipei ST	SciFinder®: Exploring What's New with SciFinder®!	Search Techniques,Miscellaneous Topics	Intermediate
	November 12, 2009 22:00 - 23:00 Taipei ST	STN®: MARPAT® Searching on STN®: Why Did I Get That?	MARPAT®	Advanced
	November 17, 2009 19:00 - 20:00 Taipei ST	SciFinder®: Exploring What's New with SciFinder®!	Search Techniques,Miscellaneous Topics	Intermediate
	November 17, 2009 22:00 - 23:00 Taipei ST	SciFinder®: Exploring What's New with SciFinder®!	Search Techniques,Miscellaneous Topics	Intermediate
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