

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 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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Research Topic Candidates	References
223 references were found containing "nano technology" as entered.	223
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文、評語及標畫等・ From Chemistry & Industry (London, United Kinghom) (2009), (18), 9, Language: English, Database: CAPLUS	Iijima Sumio
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□ 2. Interaction between water-soluble hydroxylated single-wall carbon nanotubes and human serum al 及文會要元登主現御安 。 □ 2. Interaction between water-soluble hydroxylated single-wall carbon nanotubes and human serum al 另有储存、列印、输出等受项 。	
From Goodeng Xuexiao Huaxue Xuebao (2009), 30(9), 1733-1738. Language: Chinese, Database: CAPLUS	Tuuasaka Masako
fluorescence spectroscopy, absorption spectroscopy, synchronous fluorescence spectroscopy and transmission electron microscopy (TEM) methods.	Ajayan Pulickel M
Fluorescence quenching of human serum albumin by a hydroxylated single-wall carbon nanotube was obsd., indicating the interaction between them occurs. TEM images show the hydroxylated carbon nanotubes system can be stabilized and dispersed by the absorption of human serum albumin on the surface of the	Bando Yoshio
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Answers per Page

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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...







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SciFind	Explore references by research topic: nano technology initiated, resulting in 2 candidates	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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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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	1. Biomimetic S By Tseng, Yao-Hung From Journal of Phy A fabrication of microcrystal w each other thr	synthesis 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	d that f adjusi D-gelai	Vie the 2n0- t themse tin micro	w: — = Judition Ives to crystal	•	Click bar to view references with set Nanocompos Polymer mor	v only those in the curre ites	904 249
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	By Cheng, Wei-Yun; From Journal of Phy	sind improvement on separation of Protoinduced charge carriers in cus-metal wanoneterost ductures ; Chen, Wei-Ta; Hsu, Yung-Jung; Lu, Shih-Yuan /sical Chemistry C (2009), 113(40), 17342-17346. Language: English, Database: CAPLUS		41			Thermal stat	oility	165
	replacement o of the CdS NM more pronoun	The the feasibility of modulating and improving the seph. Of produciduded charge carriers of CoS-M hanoneterostruct 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 (Ni Vs were effectively passivated, enabling a fuller extent of participation of the photoinduced electrons in the charge seph. proce need photoluminescence quenching and photocurrent depression for the CdS1-xSex and CdS1-xTex NWs. The present study p	ures Ns), th Iss, thu	nrougn 1e defect 1s resultir	partial states ng in a		Glass transiti temperature	on 	129
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	3. Dynamic med By Wang, Yeh; Huar Erom Polymer Comp	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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A fabrication of ZnO hierarchical mesorystal was achieved by a biominetic 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
♣Substances ▲Reactions & Citing DFull Text ⇔Link < 0 Comments D 1 Tag	Nanoparticles 167
 2. Modulation and Improvement on Separation of Photoinduced Charge Carriers in EdS-Metal Nanoheterostructures 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
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	
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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	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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Category Heading 🏈 All Technology Physical chemistry General chemistry Polymer chemistry Synthetic chemistry Environmental chemistry Catalysis Genetics & protein chemistry Analytical chemistry Biotechnology Biology	Category Proteins & peptides (45) Miscellaneous substances (45) Nucleic acids (7) Genetics (4) Protein & peptide topics (2)	Index Terms Select All Deselect All Transformation, genetic Chromosome PCR (polymerase chain reaction) Plasmids	2 1 1	Selected Terms ♥ 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 🛛 🖧 🔓	et 🛛 🚡 Get 🎼 Get 🚺 ubstances 🕹 Reactions 🕅 Cited	Get Get Citing Full Text		Quick Links	
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2. Modulation and Imp	rovement on Separation of Pho	toinduced Charge		Source Journal of Physical Chemistry C	
By: Cheng, Wei-Yun; Chen, Wei-Ta; Hsu, Yung-Jung; Lu, Shih-Yuan 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 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 provides a facile way of improving the photocatalytic efficiency of CdS through the improvement in retarding the recombination of photoinduced charge carriers.					
Indexing				Company/Organization	
Optical, Electron, and Mass Sp 73-5) �	Department of Chemical Engineering National Tsing Hua University Hsinchu, Taiwan 30013				
Section cross-reference(s): 76	, 74			Accession Number	
Concepts 🚸		Substances	♦	Accession Number	
Charge separation Exciton luminescence	Electric current-potential relations Luminescence quenching	ip 1306-23-6P 107103-13-9	Cadmium sulfide (CdS) PP Cadmium selenide sulfide (CdSe0.1S0.9)	CAPLUS	
Nanowires	Passivation	149293-62-9	HY Caamium suiride telluride (CCSU.951eU.05)	Publisher	
Photocurrent Photolysis catalysts	Photoelectrons Suspensions	modulation anoheteros	and sepn. of photoinduced charge carriers in CdS-metal structures	American Chemical Society	
modulation and conn. of photo	induced charge carriers in CdS-metal	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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支援多種Import/Export格式,方便研究人員快速 轉換,如<u>ChemDraw, ISIS/Draw, MDL</u>等。

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Import from	C SFSCHLR		~	🧊 📂 🛄 🚍
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	ChemDraw	(*.c:d) v (*.mol) (*.mol)		

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。



		Substar 連至相同 亦會被特	nce [關文鬳 诗別校)etail:可黑 <u>犬</u> 。專利中/ 票示。	選感身 屬於 <u>預</u>	興趣的類別,即 <u>測性的物質(Pr</u>	"可 <u>快速串</u> ophetic)	
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			Ļ	178 References	0 Selected	Keep Selected Remove Selected	Remove Duplicates A	dd Tags
	CAplus Role Analytical study Biological study Combinatorial study	Patents N	onpate	1. Hair dyes col By Gross, Wibke; Ob From Ger. Offen. (2 The invention Thus 1-[3-(di acid diethylest 10 mmol react of 1:1; the pH	ntaining an perkobusch, Do 009), DE 10200 concerns ha iethoxyphosp ær. A two co tive carbonoy was set with	indolium derivative and a ris; Nemitz, Ralph 08062234 A1 20091015. Language: air dyes that contain (a) at le horylpropyl)-2,3,3-trimethyl]-: omponent hair dye contained (/I compd., Natrosol HR 250 2 g n ammonia and tartaric acid re	carbonyl compound German, Database: CAPL ast one indolium deri 3H-indolium bromide (gel1): 10 mmol of the g, sodium hydroxide (S esp.	US v. of the general formula was synthesized from 2 e synthesized dye, Natros 50% soln.) q.s.; water to
	Formation,	1	1		1			
	Miscellaneous	·		×				
	Occurrence		1					
	Preparation	1	1	×	1			
	Process	1	1		1			
	Properties Prophetic in patents Reactant or	4	✓ — <mark>孝利</mark> ✓	<mark>中屬於可預测性的</mark> √	✓ 内物質 • ✓			
Sc1	reagent Uses	1	×	<	1			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 I	Lipinski and Related	Spectra Structure-related	Thermal		
Biological Properties		Value (onditions		Notes	Тор
Bioconcentration Factor		1.0	pł	H 1 Temp: 25 °C		(50)	
Bioconcentration Factor		1.0	pł	H 2 Temp: 25 °C		(50)	
Bioconcentration Factor		1.0	pł	H 3 Temp: 25 °C		(50)	
Bioconcentration Factor		1.25	pł	H 4 Temp: 25 °C		(50)	
Bioconcentration Factor		1.55	pł	H 5 Temp: 25 °C		(50)	
Bioconcentration Factor		1.59	pł	H 6 Temp: 25 °C		(50)	
Bioconcentration Factor		1.59	pł	H 7 Temp: 25 °C		(50)	
Bioconcentration Factor		1.59	pł	H 8 Temp: 25 °C		(50)	
Bioconcentration Factor		1.59	pł	H 9 Temp: 25 °C		(50)	
Bioconcentration Factor		1.59	pł	H 10 Temp: 25 °C		(50)	
Chemical Properties		Value	C	onditions		Notes	Тор
Кос		1.0	pł	H 1 Temp: 25 °C		(50)	
Кос		1.88	pł	H 2 Temp: 25 °C		(50)	
Кос		13.2	pł	H 3 Temp: 25 °C		(50)	
Lipinski and Related Pro	perties	Value	C	onditions		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	3 Ti	emp: 25 °C		(50)	
Molecular Weight		107.11				(50)	
Spectra Properties		Value	C	onditions		Notes	Тор
Carbon-13 NMR Spectrum	NEW®	See spectru	m			(51)	
Proton NMR Spectrum		See spectru	m			(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 🚸

Properties - 1 selected Experimental Boiling Point Melting Point Predicted H Acceptors H Donors Molecular Weight logP Preely Rotatable Bonds Bioconcentration Factor Boiling Point Density Enthalpy of Vaporization Flash Point H Acceptor/Donor Sum Koc logD Mass Solubility		 Select one or more properties. Click each property to display value options. 	2. Specify values and limits.
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	100.00	Properties - 1 selected	Values - Predicted Molecular Weight
- Mass Soldbirty		Properties - 1 selected 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	Values - Predicted Molecular Weight Specify range: 100 100 100 Min: 0.0 Max:
Molar Intrinsic Solubility		Molar Intrinsic Solubility	

Export檔案支援多種格式,如 akx, pdf, rtf, xls, txt。

	* Requi
Export:	
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rie Name: *	
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Answer set 6 created with 443473 a	answers 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。



Export檔案支援多種格式,如 akx, pdf, rtf。



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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 S Keep Me Posted Res Meren My Connect	Sets Help :ults History ions Preferences	可 <u>個別以"文獻"、</u> 進行2個以上答案 功能。	<u>"物質</u> 群集的	"、"反應" 約combine	3
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Saved Answer Sets	Help	
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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
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Assistance	October 14, 2009 2:00 - 3:00 Taipei ST	SciFinder®: Exploring What's New with SciFinder®!	Basic Orientation	Basic
Custom Links	October 28, 2009 1:00 - 2:00 Taipei ST	STN®: MARPAT® Searching on STN®: Why did I Get That?	MARPAT®	Advanced
	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
	November 18, 2009 10:00 - 11:00 Taipei ST	SciFinder®: Exploring What's New with SciFinder®!	Search Techniques,Miscellaneous Topics	Intermediate
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