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# SciFinder Scholar Content at a Glance

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   1 million experimental property value
- 1 million experimental property values
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  - Medical sciences
  - Pharmaceutical sciences

- Environmental Sciences
- Agricultural sciences
- Food Sciences
- Material Sciences
- Geology
- Petroleum
- & Many more .....

# **SciFinder Scholar Search Options and Techniques**

**Various Options of Searching** – You can search SciFinder Scholar by not only Key Words, Company Name, Author Name etc but also, by drawing Chemical Structures, Reactions/processes and many more.

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Select One:	
Explore Literature	Explore Substances
Research Topic	Chemical Structure
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Company Name / Organization	
Explore Reactions	Explore Sequences
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# I) Key Word/Concept searching

Use conversational language to retrieve papers and patents on any research topic from more than – 27 million references in CAS database + 16 million abstracts in the MEDLINE database

#### For example - Locate information on Bioplastics.

Describe your topic using a phrase. I am interested in:		View Results in Chronological order -		
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Filters 🕨	Rasal, Ra Technical 2007:104	hul M.; Hirt, Douglas E. Micropattering poly(acrylamide) on PLA films using photolithography. Annual Conference - Society of Plastics Engineers (2007), 65th 1670-1674. CODEN: ACPED4 ISSN:0272-5223. AN 3460 CAPLUS		
ок	Bhardwaj Society o CAPLUS	, Rahul; Mohanty, Amar K. New materials from polylactide bioplastics. Annual Technical Conference - f Plastics Engineers (2007), 65th 1551-1556. CODEN: ACPED4 ISSN:0272-5223. AN 2007:1048418		
	Koster, R Technical 2007:104	olf; van Dijken, Bregtje; van Erve, Lobke. <b>Designing injection molded bioplastics products.</b> Annual Conference - Society of Plastics Engineers (2007), 65th 859-863. CODEN: ACPED4 ISSN:0272-5223. AN 3211 CAPLUS		
	Mariniello Films Su AN 2007:	, L.; Giosafatto, C. V. L.; Moschetti, G.; Aponte, M.; Masi, P.; Sorrentino, A.; Porta, R. Fennel Waste-Based itable for Protecting Cultivations. Biomacromolecules ACS ASAP. CODEN: BOMAF6 ISSN:1525-7797.		
	☐ Temudo, fermenta BIBIAU I	Margarida F.; Kleerebezem, Robbert; van Loosdrecht, Mark. Influence of the pH on (open) mixed culture ntion of glucose: a chemostat study. Biotechnology and Bioengineering (2007), 98(1), 69-79. CODEN: SSN:0006-3592. AN 2007:930031 CAPLUS		
	☐ Gastaldi, composi Workshop 69JRG3	E.; Angeliier, H.; Menut, P.; Kunanopparat, T.; Gontard, N.; Guilbert, S. Wheat gluten-based biomaterials: tes and nanocomposites. Gluten Proteins 2006, [based on Presentations Made at the International Gluten o], 9th, San Francisco, CA, United States, Sept. 14-16, 2006 (2007), Meeting Date 2006, 227-231. CODEN: CAN 147:284931 AN 2007:923873 CAPLUS		
	Sobkowic nanosph August 10	z, Margaret J.; Dorgan, John R.; Gneshin, Keith W. <b>Renewable plastic composites with carbon</b> eres derived from cellulose. Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, a.23.2007 (2007) POLV-478 CODEN: 69 INP2 AN 2007-886868 CAPLUS		
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# Once, you have located answers, you can refine or limit the retrieved answers in different ways such as -



#### Locating publications from 2000 onwards -

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2000- Examples:			Bhardwaj, Rahul; Mohanty, Amar K. New materials from polylactide bioplastics. Annual Technical Conference - Society of Plastics Engineers (2007), 65th 1551-1556. CODEN: ACPED4 ISSN:0272-5223. AN 2007:1048418 CAPLUS	<u>k</u>
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-1992	up to and includin		Temudo, Margarida F.; Kleerebezern, Robbert; van Loosdrecht, Mark. <b>Influence of the pH on (open) mixed culture</b> fermentation of glucose: a chemostat study. Biotechnology and Bioengineering (2007), 98(1), 69-79. CODEN: BIBIAU ISSN:0006-3592. AN 2007:930031 CAPLUS	<u>k</u>
ок			Gastaldi, E.; Angeliier, H.; Menut, P.; Kunanopparat, T.; Gontard, N.; Guilbert, S. Wheat gluten-based biomaterials: composites and nanocomposites. Gluten Proteins 2006, [based on Presentations Made at the International Gluten Workshop], 9th, San Francisco, CA, United States, Sept. 14-16, 2006 (2007), Meeting Date 2006, 227-231. CODEN: 69JRG3 CAN 147:284931 AN 2007:923873 CAPLUS	
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			Larock, Richard C. Novel bioplastics and composites from natural oils. Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007 (2007), POLY-399. CODEN: 69JNR2 AN 2007:886789	
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		Ref	ferences 1-7 of 286	

#### You can also view details of retrieved references -

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Bibliographic Information	
<b>Development of bioplastic for automobile parts.</b> Yoshida, Kunihiko; Matsuda, Yushi; Tochioka, Takahiro. Tech. Res. Cent., Mazda Motor Corporation, Japan. Matsuda Giho (2007), 25 157-160. Publisher: Matsuda K.K., CODEN: MAGIEM ISSN: 0288-0601. Journal; General Review written in Japanese. CAN 147:212821 AN 2007:741105 CAPLUS	
Abstract	
A review. Bioplastics have a great potential as future plastic materials for automobile because of the reduced amts. of fossil fuel consumption through prodn. process and carbon neutral about CO2 emission. Current bioplastics have a poor impact strength, a poor heat resistance for automobile and long producing time of injection molding due to the low crystn. speed. We tried to improve mech. and thermal properties and a moldability of current bioplastics by compounding a newly-developed nucleating agent for crystn. and a compatibilizer. As a result, we have developed an improved exterior surface quality, high-strength, heat-resistant, and injection moldable bioplastic, which is able to use for automotive interior parts for the first time in the industry. This research was the result of an industry-government-academia joint research project in Hiroshima Prefecture. This new bioplastic is made of mainly corn-based polyactic acid. In addn., because part of the nucleating agent for crystn. and compatibilizer are also made of plant-derived materials, developed bioplastic has high plant-derived content (88%).	
Indexing Section 38-0 (Plastics Fabrication and Uses)	
Biodegradable materials (development of <mark>bioplastic</mark> from corn-based polyactic acid for automobile parts)	
Molded plastics, uses Polyesters, uses Role: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)	

Use "Categorize" feature to navigate large answer set easily. It analyzes the index terms & groups them into subject categories.

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# II) Search by particular Author/Inventor's name

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III) Locate published	papers and	patents of	<u>'a Company /</u>
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III) You can locate specific publications by providing bibliographic details -

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**IV)** Locating specific Substances - you can locate substance by CAS Registry number, common chemical/trade names. Further you can view details like - structure diagram, experimental and calculated properties,





Further, you can locate associated answers -

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Retrieve references for:	
All substances     O Selected substances	Gargiulo, Paul M.; Lane, Roger Michael; Wall, Bettina; Platt, Beatrix; Theobald, Frank. Transdermal therapeutic systems providing specific plasma concentrations of active ingredients, such as cholinesterase inhibitors. Can. Pat. Appl. (2007), 37pp. CODEN: CPXXEB CA 2563110 A1 20070601 CAN 147:39157 AN 2007:609363
For each substance, retrieve:	CAPLÚS
O All references	Beri, Veena; Gupta, Rajendra. Acetylcholinesterase inhibitors neostigmine and physostigmine inhibit induction of
🗹 Adverse Effect, including Toxicity 🛛 Occurrence	80(24-25), 2386-2388. CODEN: LIFSAK ISSN:0024-3205. AN 2007:603275 CAPLUS
Analytical Study Preparation	🗖 Zvosec, Deborah L.; Smith, Stephen W.; Litonjua, Regina; Westfal, Richard E. J. Physostigmine for 🛛 🗽
Biological Study	gamma-hydroxybutyrate coma: Inefficacy, adverse events, and review. Clinical Toxicology (2007), 45(3), 261-265. CODEN: CTPPA5 ISSN:1556-3650. CAN 147:205618 AN 2007:569934 CAPLUS
Combinatorial Study	Lahiri, Debomoy K.; Alley, George M.; Tweedie, David; Chen, Demao; Greig, Nigel H. Differential effects of two
Crystal Structure Reactant or Re	hexahydropyrroloindole carbamate based anticholinesterase drugs on the amyloid beta protein pathway
Formation, nonpreparative Spectral Prope	ISSN:1535-1084. CAN 146:493365 AN 2007:566120 CAPLUS
Miscellaneous Uses	Gervais, Francine; Bellini, Francesco. Therapeutic formulations for the treatment of β-amyloid-related diseases. PCT Int. Appl. (2007), 254pp., which which which which which which. CODEN: PIXXD2 WO 2007049098 A2
For each <b>sequence</b> , retrieve:	20070503 CAN 146:455274 AN 2007:486266 CAPLUS
Additional related references, e.g., activity studies,	Pires, W.; Wanner, S. P.; La Guardia, R. B.; Rodrigues, L. O. C.; Silveira, S. A.; Coimbra, C. C.; Marubayashi, U.; Lima, L.
disease studies. 🕢	of Physiology and Pharmacology (2007), 58(1), 3-17. CODEN: JPHPEI ISSN:0867-5910. CAN 147:64277 AN
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	References 6-12 of 8248

**V)** Structure Searching in SciFinder Scholar – You can draw molecular Structure in the structure drawing screen and search the structure. There are three types of structure searching –

- a) **Exact Structure Search** Searches for Salts, stereoisomers, mixtures of the query structure.
- b) **Substructure Search** Searches for all reported derivatives of the query structure.
- c) Similarity Search Locates similar compounds.



## Exact Search Results -



#### Substructure Search Results -



#### Locate Associated References -

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	Teicher, Martin; Andersen, Susan L.; Samson, Jacqueline A. Methods for the treatment of ADHD and related disorders. PCT Int. Appl. (2007), 22pp. CODEN: PIXXD2 WO 2007100777 A2 20070907 AN 2007:999484 CAPLUS					
	Mark, William Antonio; Hall, Lloyd Thomas. Water soluble protein hydrolyzate excipients for effective drug delivery formulations. U.S. Pat. Appl. Publ. (2007), 18pp. CODEN: USXXCO US 2007190130 A1 20070816 CAN 147:263388 AN 2007:907658 CAPLUS					
	Rosenkranz, Vera; Wink, Michael. Induction of apoptosis by alkaloids, non-protein amino acids, and cardiac glycosides in human promyelotic HL-60 cells. Zeitschrift fuer Naturforschung, C: Journal of Biosciences (2007), 62(5/6), 458-466. CODEN: ZNCBDA ISSN:0939-5075. AN 2007:767492 CAPLUS					
	Yu, Ruey J.; Van Scott, Eugene J. Pharmaceutical compositions containing N-(phosphonoalkyl)-amino acids. U.S. Pat. Appl. Publ. (2007), 23pp. CODEN: USXXCO US 2007161543 A1 20070712 CAN 147:173626 AN 2007:763639 CAPLUS					
	Li, Xinwang; Yu, Ping; Zhang, Bin; Meng, Yingfang. Effect of physostigmine on morphine-induced spatial recall impairment in cats. Zhongguo Linchuang Kangfu (2006), 10(2), 82-84. CODEN: ZLKHAH ISSN:1671-5926. CAN 147:134161 AN 2007:680809 CAPLUS					
	Gargiulo, Paul M.; Lane, Roger Michael; Wall, Bettina; Platt, Beatrix; Theobald, Frank. <b>Transdermal therapeutic</b> systems providing specific plasma concentrations of active ingredients, such as cholinesterase inhibitors. Can. Pat. Appl. (2007), 37pp. CODEN: CPXXEB CA 2563110 A1 20070601 CAN 147:39157 AN 2007:609363 CAPLUS					
	Beri, Veena; Gupta, Rajendra. Acetylcholinesterase inhibitors neostigmine and physostigmine inhibit induction of alpha-amylase activity during seed germination in barley, Hordeum vulgare var. Jyoti. Life Sciences (2007), 80/24-25, 2388, 2388, CODEN: LIESAK ISSN:0024.3205, AN 2007-603275, CAPLUS	l B J				
	Remove Duplicates Analyze/Refine Get Related Back					
Refe	References 1-7 of 9103					



#### Similarity Search Results -

As the score decreases, you can see more changes in original molecule.



## VI) Reaction Searching - You can search for Reactions/Processes by drawing the structure -



## View Reaction details -

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	C1 CHO 1.1 R:NH40H, S:H20, 2-3 min, rt 1.2 R:Bromosuccinimide, 25 min, 0°C c1 934							
	NOTE: Reactants: 1, Reagents: 2, Solvents: 1, Steps: 1, Stages: 2							
	Synthetic Communications, 36(10), 1347-1352; 2006 CASREACT	•						
	Get References         Analyze/Refine         Back							
React	ions 15-16 of 76							

You can further use features like Analyse/Refine to locate specific reactions and their references. -



## Analysis result of Solvents used in the reactions -

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	<u>NMP</u>			6
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	<u>CH2CI2</u>			3
	DME			2
	HCO2H			2
	MeNO2			2
	PhMe			2
	AcNMe2			1
	Benzene			1
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## Further, locate related references on the above reactions -

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	Yamaguchi, Kazuya; Fujiwara, Hiroshi; Ogasawara, Yoshiyuki; Kotani, Miyuki; Mizuno, Noritaka. A tungsten-tin mixed hydroxide as an efficient heterogeneous catalyst for dehydration of aldoximes to nitriles. Angewandte Chemie, International Edition (2007), 46(21), 3922-3925. CODEN: ACIEF5 ISSN:1433-7851. CAN 147:211310 AN 2007:614634 CAPLUS				
	Patrick, Donald A.; Bakunov, Stanislav A.; Bakunova, Svetlana M.; Kumar, E. V. K. Suresh; Lombardy, Richard J.; Jones, Susan Kilgore; Bridges, Arlene S.; Zhirnov, Oksana; Hall, James Edwin; Wenzler, Tanja; Brun, Reto; Tidwell, Richard R. Synthesis and in Vitro Antiprotozoal Activities of Dicationic 3,5-Diphenylisoxazoles. Journal of Medicinal Chemistry (2007), 50(10), 2468-2485. CODEN: JMCMAR ISSN:0022-2623. CAN 147:72679 AN 2007:426499 CAPLUS				
	Movassagh, Barahman; Fazeli, Azadeh. Direct synthesis of aromatic nitriles from aldehydes using hydroxylamine and oxalyl chloride. Synthetic Communications (2007), 37(4), 623-628. CODEN: SYNCAV ISSN:0039-7911. CAN 146:316587 AN 2007:330945 CAPLUS	ł			
	Lee, Jong Chan; Yoon, Jae Man; Baek, Jong Wook. A novel and efficient synthesis of nitriles from aldehydes under solvent-free microwave irradiation conditions. Bulletin of the Korean Chemical Society (2007), 28(1), 29-30. CODEN: BKCSDE ISSN:0253-2964. CAN 147:72256 AN 2007:268570 CAPLUS	ł			
	Li, Li-Jun; Song, Ying-Xia; Gao, Yan-Su; Li, Yan-Feng; Zhang, Jian-Feng. Solvent-free synthesis of nitriles from aldehydes catalyzed by KF/Al2O3, montmorillonite KSF and K10. E-Journal of Chemistry (2006), 3(12), 164-168. CODEN: ECJHAO CAN 146:500694 AN 2006:1054612 CAPLUS	ł			
	Sloboda-Rozner, Dorit; Neumann, Ronny. Aqueous biphasic catalysis with polyoxometalates. Oximation of ketones and aldehydes with aqueous ammonia and hydrogen peroxide. Green Chemistry (2006), 8(8), 679-681. CODEN: GRCHFJ ISSN:1463-9262. CAN 146:441128 AN 2006:758170 CAPLUS				
	Das, Biswajit; Ahmed, Shahadat; Yadav, Ajay Singh; Ghosh, Soma; Gujrati, Arti; Sharma, Pankaj; Rattan, Ashok.         Image: Remove Duplicates       Analyze/Refine         Get Related       Back				
References 1-7 of 52					