

Ghid de utilizare



Pentru a va crea un cont la Scifinder aveti nevoie de un URL special de la bibliotecar sau administratorul institutiei dumneavoastra.



1.Folosind URL-ul accesati form-ul de inregistrare si apasati NEXT.

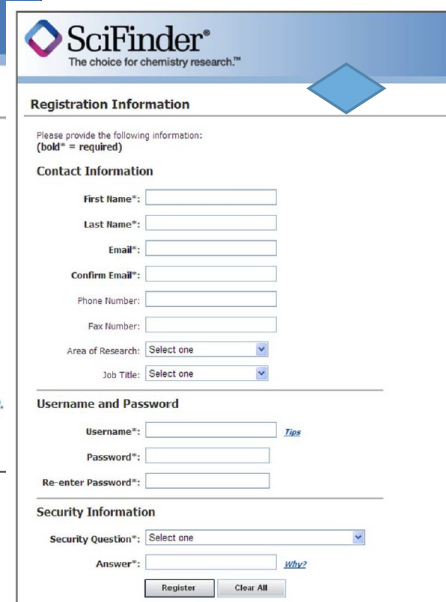
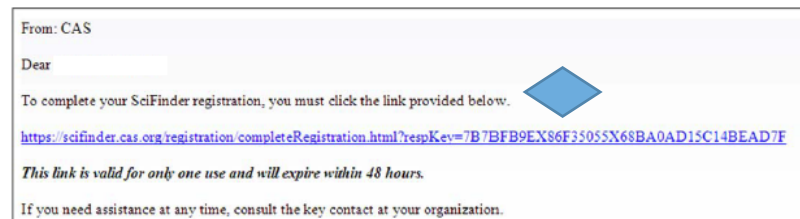
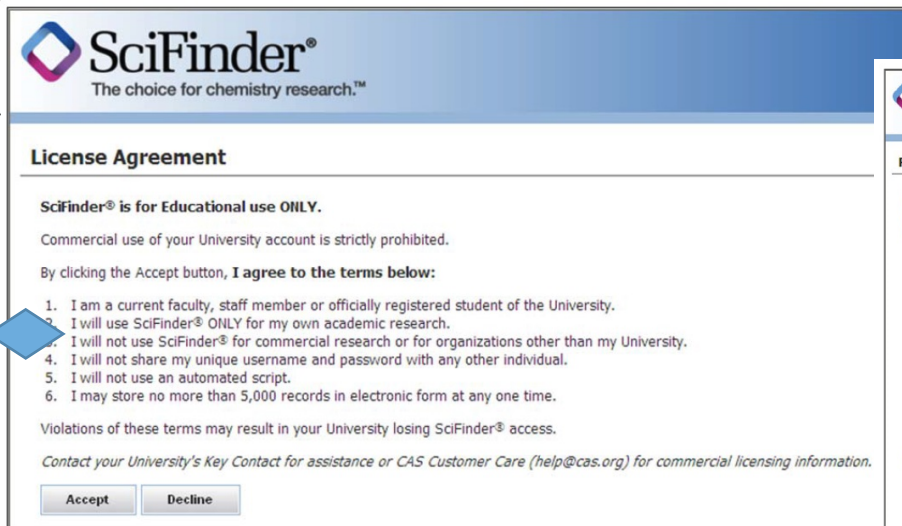
2.Apasati Accept daca sunteti de accord cu termenii si conditiile.

3.Completati datele de contact.

4.Apasati Register si daca totul a fost in ordine veti primi un mail de la CAS .

5. Click pe link-ul din mail pentru a activa inregistrarea.

6.Acum puteti utiliza resursa dca va logati cu noul user si parola create.



Pagina principală

◆ Introduceți user-ul și parola pentru a vă loga.



Sign In

Username

Password

Remember me
(Do not use on a shared computer)

Sign In

[Forgot Username or Password?](#)

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Salvare - Printare - Export

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SCIFINDER
A CAS SOLUTION

Explore | Saved Searches | SciPlanner | Save | Print | Export

Research Topic "model for solid oxide fuel cel..." > references (125)

REFERENCES | Get Substances | Get Reactions | Get Related Citations | Tools | Create Keep Me Posted Alert | Send to SciPlanner

Analyze | Refine | Categorize | Sort by: Accession Number | Display Options

0 of 125 References Selected | Page: 1 of 7

Analyze by: Author Name

Brouwer Jacob	3
Bultel Y	3
Chan S H	3
Favrat D	3
Gazzari J I	3
Haynes Comas	3
Kesler O	3
Marechal F	3
Shen Shuanglin	3
Van Herle Jan	3

Show More

1. A Degradation Model for Solid Oxide Fuel Cell Anodes Due to Impurities in Coal Syngas: Part II Estimation of Tolerance Limits
By Cayan, F. N.; Sazer, H.; Celik, I.
From Fuel Cells (Weinheim, Germany) (2016), 16(3), 313-318. | Language: English, Database: CAPLUS

An engineering anal. based on calibrated numerical predictions was performed to est. the min. allowable impurity concns. in coal syngas intended to be used in Solid Oxide Fuel Cells (SOFCs) operating for over 10,000 h. Arsine and phosphine, impurities that are known to have the most deleterious effects on the cell performance due to their affinity to have strong relations with the anode catalyst by formation of secondary phases, were investigated. Time to failure was taken as the operation time when 60% performance loss is incurred, estd. by the previously developed one-dimensional degrdn. m...

2. Comprehensive computational fluid dynamics model of solid oxide fuel cell stacks
By Nishida, R. T.; Beale, S. B.; Pharoah, J. G.
From International Journal of Hydrogen Energy (2016), Ahead of Print. | Language: English, Database: CAPLUS

This paper describes the development and application of a novel computational fluid dynamics model which allows the investigation of large solid oxide fuel cell stacks in practical computation times. Comparisons with a previously verified model match quant. to within 3% difference for all parameters of a benchmark case and solve within 1.5% the computation time for parallel flows of air and fuel in a cell, verifying the present model as a practical option in stack design. The model is used to demonstrate that the distribution of flow rates to each cell in a 100 cell stack significantly affec...

3. Solid oxide fuel cell for laboratory

◆ In coltul din dreapta sus dati click pe Save , Print sau Export pentru a lansa o fereastra de dialog.

◆ Implicit toate raspunsurile sunt salvate , printate sau exportate.

Salveaza reactii

The screenshot shows the SciPlanner interface with a list of reagents on the left and a reaction detail view in the center. A 'Save This Answer Set' dialog box is overlaid on the bottom right, with three numbered callouts (1, 2, 3) indicating the steps to save the reaction set.

1 Save

Reaction Structure structure variable only at spe... > reactions (1821)

REACTIONS **Get References** **Tools** **Send to SciPlanner**

Analyze Refine Group by: No Grouping Sort by: Relevance Display Options

0 of 1821 Reactions Selected Page: 1 of 92

1. View Reaction Detail **Link**

Single Step *Hover over any structure for more options.*

CC1=CC=C(C=C1)C(=O)N2C=CC=CC2 + OS(=O)(=O)O → CC(=O)N1C=CC=C(C=C1)C2=CC=CC=C2

100%

2 Save This Answer Set * Required

Save: All answers Only selected answers

Title: * Clopidogrel reactions

Description: One and two step reactions

3 OK Cancel

1 In dreapta sus,click salveaza.

2 In fereastra Save This Answer Set ,selecteaza raspunsurile pe care vrei sa le salvezi

3 Click OK pentru a salva raspunsurile.

Lucru cu seturi de raspunsuri salvate

1 **Saved Searches** **Click the drop-down arrow on the Saved Searches tab to access all of your Saved Answer Sets, Keep Me Posted alert results and your search History.**

2 **2 of 14 Substance Answer Sets Selected** **References (30)** **Substances (14)** **Reactions (12)**

Subs HTG 2016 5 6 (535)	Edit	Link	Saved May 6, 2016
Chemical Structure substructure > substances (535)			
Subs assoc'd with flavors in mouthwash; rxn availa (2057)	Edit	Link	Saved Nov 10, 2015
Research Topic "flavoring for mouthwash" > references (688) > keep analysis "CA Section Title" (488) > get substances (3145) > keep analysis "Reaction Availability" (2057)			
chemsearcher test (380)	Edit	Link	Saved Sep 8, 2015
Property "Experimental - Optical Rotatory Power, 18.2" > substances (380)			
coord cmpds 25 (25)	Edit	Link	Saved Aug 18, 2015
Chemical Structure substructure > substances (3262) > refine "atom Attachment" (25)			
coord cmpd example (3262)	Edit	Link	Saved Aug 18, 2015
using real atom attachment			

3 **Combine Answer Sets**

4 **Combine Answer Sets**

Select an option for combining the two selected saved answer sets:

- Combine** Include all substances from both sets
- Intersect** Include only substances that appear in both sets
- Exclude** Include only answers from coord cmpds 25 that are not in coord cmpd example
- Exclude** Include only answers from coord cmpd example that are not in coord cmpds 25

5 **Combine Answer Sets** **Cancel**

- Click pe *Saved Answer Sets*
- Referintele salvate , substantele si reactiile se gasesc in tab-uri diferite:
 - Titlul redeschide setul de raspunsuri
 - Edit pentru a modifica titlul sau descrierea
 - Link pentru a crea o legatura spre acces rapid
- Daca selectezi doua sau mai multe seturi de raspunsuri atunci butonul *Combine Answer Sets* devine active
- Poti combina doua seturi de raspunsuri in patru moduri
- Click pe *Combine Answer Sets*.
- Raspusurile sunt unite si devin sesiunea ta activa.

Exemple de Print

Save **1** Print Export

2 Print

Print to PDF:

- All
- Selected
- Range

Example: 2-20

Format:

- Summary without abstracts
- Summary with partial abstracts
- Summary with full abstracts
- Detail (full record)

Title:

Modelling SOFCs

Include:

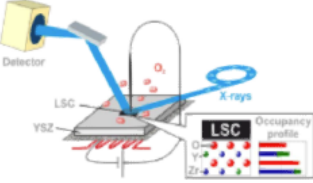
- Task History
- Tags
- Comments

3 Print Cancel

The PDF document

SciFinder® Page 1

4. Operando X-ray Investigation of Electrode/Electrolyte Interfaces in Model Solid Oxide Fuel Cells
By Volkov, Sergey; Vork, Vedran; Khorshidi, Navid; Franz, Dirk; Kubicek, Markus; Klic, Volkan; Felici, Roberto; Huber, Tobias M.; Navickas, Edvinas; Rupp, Ghislain M., et al
From *Chemistry of Materials* (2015), Ahead of Print, Language: English, Database: CAPLUS, DOI:10.1021/acs.chemmater.5b00351



We employed operando anomalous surface X-ray diffraction to investigate the buried interface between the cathode and the electrolyte of a model solid oxide fuel cell with at. resin. The cell was studied under different oxygen pressures at elevated temps. and polarizations by external potential control. Making use of anomalous X-ray diffraction effects at the Y and Zr K-edges allowed us to resolve the interfacial structure and chem. compn. of a (100)-oriented, 9.5 mol % yttria-stabilized zirconia (YSZ) single crystal electrolyte below a La_{0.9}Sr_{0.1}CoO_{3-δ} (LSC) electrode. We observe yttrium segregation toward the YSZ/LSC electrolyte/electrode interface under reducing conditions. Under oxidizing conditions, the interface becomes Y depleted. The yttrium segregation is corroborated by an enhanced outward relaxation of the YSZ interfacial metal ion layer. At the same time, an increase in point defect concn. in the electrolyte at the interface was obsd., as evidenced by reduced YSZ crystallog. site occupancies for the cations as well as the oxygen ions. Such changes in compn. are expected to strongly influence the oxygen ion transport through this interface which plays an important role for the performance of solid oxide fuel cells. The structure of the interface is compared to the bare YSZ(100) surface structure near the microelectrode under identical conditions and to the structure of the YSZ(100) surface prepd. under ultrahigh vacuum conditions.

-0 Citings
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10. Multiscale model for solid oxide fuel cell with electrode containing mixed conducting material
By Chen, Daifan; Wang, Hanzhi; Zhang, Shundong; Tade, Moses O.; Shao, Zongping; Chen, Huiji
From *AIChE Journal* (2015), 61(11), 3786-3803, Language: English, Database: CAPLUS, DOI:10.1002/aic.14881

Solid oxide fuel cells (SOFCs) with electrodes that contain mixed conducting materials usually show very different relations among microstructure parameters, effective electrode characteristics, and detailed working processes from conventional ones. A new multiscale model for SOFCs using mixed conducting materials, such as LSCF or BSCF, was developed. It consisted of a generalized percolation micromodel to obtain the electrode properties from microstructure parameters and a multiphysics single cell model to relate these properties to performance details. Various constraint relations between the activation overpotential expressions and elec. boundaries for SOFC models were collected by analyzing the local electrochem. equil. Finally, taking a typical LSCF-SDC/SDC/Ni-SDC intermediate temp. SOFC as an example, the application of the multiscale model was illustrated. The accuracy of the models was verified by fitting 25 expl. I-V curves reported in literature with a few adjustable parameters; additi. and several conclusions were drawn from the anal. of simulation results. © 2015 American Institute of Chem. Engineers AIChE J, 2015.

-2 Citings
Copyright © 2015 American Chemical Society (ACS). All Rights Reserved.

15. Solid oxide fuel cell stack based on single-sheet electrolyte
By Liu, Jiang; Zhang, Li; Liu, Yan; Yuan, Li
From *Shiyong Xinxing Zhuanli Shuomingshu* (2014), CN 203871424 U 20141008, Language: Chinese, Database: CAPLUS

1 Poti printa referinte , substante si reactii, apasand pe *Print*

- ◆** In fereastra *Print* :
- Selecteaza raspunsurile de printat
 - Introdu un titlu
 - Daca doresti specifica informatii in plus pentru setul tau de raspunsuri.

◆ Click *Print* pentru a genera un PDF

Exemple de export substance

Tip
To store the file on the SciFinder server, use **Save**.

1 Export

Substances (388)

Get References Get Reactions Get Commercial Sources Tools Create Keep Me Posted Alert Send to SdPlanner

Analyze Refine Sort by: Relevance Display Options

0 of 388 Substances Selected Page: 1 of 20

1. 74-11-3
2. 3686-66-6
3. 4641-33-2

4. 15163-60-7

Export

Export: All Selected Range
Example: 2-20

For: Offline review
 Portable Document Format (*.pdf)
 Rich Text Format (*.rtf)
 Properties Only - Microsoft Excel Worksheet (*.xls)
 Answer Keys (*.txt)
 Quoted Format (*.bit)
 Tagged Format (*.bit)

Saving locally
 Answer Key eXchange (*.akx)

Chemical structure processing
 SDFFile (*.sdf)

Details: * Required
File Name: *
4-chloro benzoic acid
Annotation:

5 Export Cancel

1

Click Export (dreapta sus)

2

Specifica raspusurile pentru export

3

Specifica formatul fisierului.

4

La detalii specifica numele fisierului si optional anotatia.

5

Click Export.