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Searching

The basic search in Web of Science allows you to combine terms and select fields to better narrow your search. If you are interested in creating a specific search string, you will want to use the Advanced Search link.

ISI Web of KnowledgeSM Take the next step

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Search Cited Reference Search Advanced Search Search History Marked List (0)

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Search for:

Example: oil spill* mediterranean in Topic

AND Example: O'Brian C* OR OBrian C* in Author

AND Example: Cancer* OR Journal of Cancer Research and Clinical Oncology in Publication Name

Add Another Field >> Add additional terms if needed.

Search Clear

Current Limits: [Hide Limits and Settings] (To save these permanently, sign in or register.)

Timespan:

All Years (updated 2009-01-22)

From 2002 to 2009 (default is all years)

Citation Databases:

Science Citation Index Expanded (SCI-EXPANDED)--2002-present

Social Sciences Citation Index (SSCI)--2002-present

There is a range of fields you can search including topic (or keyword), title and author. You can also mix the terms using the Boolean operators available to you. Finally, you can limit your search to a specific time span.

Advanced Search

In contrast to many databases where you enter entire Boolean search strings in the basic search window, in Web of Science you use the Advanced Search link.

Fields and operators that can be used to build search string.

On the right, you'll notice a list of searchable fields and the bottom of the screen allows you to further limit your search by time span, database or language. You could also choose to run previous searches that you may have saved.

Search Rules

Capitalization does not matter. Apostrophes are not searchable characters.

Phrase searching (placing quotation marks around terms) is useful when searching for an exact phrase such as "chemical reaction" instead of searching chemical AND reaction, which will look for the terms in the article but not necessarily as a phrase. They may not even appear near each other. Phrase searching is not applicable in the author field. In Web of Science, stopwords found between quotation marks will be replaced with any word in that position (e.g. "person with cancer" will return results such as "person having cancer," "person experiencing cancer," etc.).

Words containing hyphens will be interpreted as an exact phrase (e.g. waste-water will search for the waste-water or the phrase "waste water."

Wildcards (* ? \$) can be used in fields that allow words and phrases, and there are two different wildcards that can be used independently or together. Wildcards cannot be used at the beginning of a word (*ology) or in a publication year search (200*). Three letters must appear

before the wildcard for it to work when searching the Topic or Title field. All other fields must have one letter preceding the wildcard.

- The asterisk (*) represents any number of characters including no characters at all.
ex. **environment*** matches:
environment
environments
environmental
- The question mark (?) represents any single character.
ex. **wom?n** matches:
woman
women
- The dollar sign (\$) represents zero to one character.
ex. **colo\$r** matches:
color
colour

Take care when using wildcards as you may not want to use one with all searches. For instance, when looking for singular and plural forms of a word, you might receive fewer results by searching for the terms instead of adding a wildcard.

Boolean operators can also be used. The operators available are:

- AND: all terms in the search appear in the results
- OR: at least one term in the search appears in the results
- NOT: excludes terms from the search
- (): groups words and phrases to show a relationship and the order in which you would like the search to be performed
- SAME: searches for terms that appear in the same sentence

If parentheses are not used, the terms will be processed in order of precedence:

1. SAME
2. NOT
3. AND
4. OR

Results

Once you've run your search, you will be taken to your results list. On the left, there is a pane with expandable limiters that you can use to further refine the results.

At the top of the results list, there is a link for exporting your results to a bibliographic software like EndNote. Simply mark the results you would like to export, and click the link at the top.

The screenshot shows the Web of Science search results interface. At the top, there are navigation tabs for 'All Databases', 'Select a Database', 'Web of Science', and 'Additional Resources'. Below this, there are search options: 'Search', 'Cited Reference Search', 'Advanced Search', 'Search History', and 'Marked List (0)'. The main header displays 'Web of Science®' and 'Results' for the topic '(*second law of thermodynamics*)' with a timespan of 'All Years' and databases 'SCI-EXPANDED, SSCI'. A 'Sort by:' dropdown menu is set to 'Latest Date'. Below the search bar, there are action buttons: 'Print', 'E-mail', 'Add to Marked List', 'Save to EndNote Web', 'Save to EndNote, RefMan, ProCite', and 'more options'. A list of five search results is shown, each with a checkbox, title, author(s), source, volume, issue, pages, and publication date. A 'Find It' button is provided for each result. On the left side, there is a 'Refine Results' pane with sections for 'Subject Areas', 'Document Types', 'Authors', 'Source Titles', 'Publication Years', 'Institutions', 'Languages', and 'Countries/Territories'. A 'Scientific Web Plus' logo and 'View Web Results >>' link are also visible.

Choose how you would like to sort the results.

For more information about the article, including an abstract, click on the hyperlinked title. You will be taken to a complete record, which will also allow you to export the information to EndNote, see a list of the references, and consult related articles.

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Studying the effects of hydrogen addition on the second-law balance of a biogas-fuelled spark ignition engine by use of a quasi-dimensional multi-zone combustion model

Find It Print E-mail Add to Marked List Save to EndNote Web Save to EndNote, RefMan, ProCite more options

Author(s): Rakopoulos CD (Rakopoulos, C. D.)¹, Michos CN (Michos, C. N.)¹, Gialcournis EG (Gialcournis, E. G.)¹

Source: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING D11 **Pages:** 2249-2268 **Published:** NOV 2008 **Volume:** 222 **Issue:**

Times Cited: 0 **References:** 50 [Citation Map](#) *beta*

Abstract: Although a first-law analysis can show the improvement that hydrogen addition impacts on the performance of a biogas-fuelled spark-ignition (SI) engine, additional benefits can be revealed when the second law of thermodynamics is brought into perspective. It is theoretically expected that hydrogen enrichment in biogas can increase the second-law efficiency of engine operation by reducing the combustion-generated irreversibilities, because of the fundamental differences in the mechanism of entropy generation between hydrogen and traditional hydrocarbon combustion. In this study, an experimentally validated closed-cycle simulation code, incorporating a quasi-dimensional multi-zone combustion model that is based on the combination of turbulent entrainment theory and flame stretch concepts for the prediction of burning rates, is further extended to include second-law analysis for the purpose of quantifying the respective improvements. The analysis is applied for a single-cylinder homogeneous charge SI engine, fuelled with biogas-hydrogen blends, with up to 15 vol% hydrogen in the fuel mixture, when operated at 1500r/min, wide-open throttle, fuel-to-air equivalence ratio of 0.9, and ignition timing of 20 degrees crank angle before top dead centre. Among the major findings derived from the second-law balance during the closed part of the engine cycle is the increase in the second-law efficiency from 40.85 per cent to 42.41 per cent with hydrogen addition, accompanied by a simultaneous decrease in the combustion irreversibilities from 18.25 per cent to 17.18 per cent of the total availability of the charge at inlet valve closing. It is also illustrated how both the increase in the combustion temperatures and the decrease in the combustion duration with increasing hydrogen content result in a reduction in the combustion irreversibilities. The degree of thermodynamic perfection of the combustion process from the second-law point of view is quantified by using two (differently defined) combustion exergetic efficiencies, whose maximum values during the combustion process increase with hydrogen enrichment from 49.70 per cent to 53.45 per cent and from 86.01 per cent to 87.33 per cent, respectively.

Document Type: Article

Language: English

Author Keywords: second-law analysis; irreversibilities; spark ignition engine; hydrogen enrichment; biogas; quasi-dimensional multi-zone combustion model

KeyWords Plus: TURBULENT FLAME PROPAGATION; TRANSIENT LOAD CONDITIONS; LAMINAR-BURNING VELOCITY; AVAILABILITY ANALYSIS; PREMIXED FLAMES; GAS-MIXTURES; PERFORMANCE; VALIDATION; EFFICIENCY; EMISSIONS

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Cited Reference Search

If you are interested in how many times a certain article has been searched, you can use the Cited Reference Search link. Type in the article title, journal title or author name, and you will be given a list of results.

The results list will show you how many times whatever you searched for have been cited. For more recent works, you can actually see the list of articles that reference your search. For more recent articles, you can see the article itself as well as links to the abstracts of the articles referencing it.

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Emotional, social, and behavioral functioning of children with sickle cell disease and comparison peers

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Author(s): Trzepacz AM, Vannatta K, Gerhardt CA, Ramey C, Noll RB

Source: JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY **Volume:** 26 **Issue:** 10 **Pages:** 642-648 **Published:** OCT 2004

Times Cited: 8 **References:** 42 [Citation Map](#) *beta*

Abstract: This research examined the emotional, social, and behavioral functioning of children with sickle cell disease (SCD) and classroom comparison peers from the perspective of primary and secondary caregivers. It was hypothesized that children with SCD would have more internalizing (emotional) and social problems and fewer externalizing (behavioral) problems than comparison peers. Caregivers of 70 children with SCD and 67 comparison peers completed the Child Behavior Checklist (CBCL) during visits to the children's homes. Relative to comparison peers, children with SCD were perceived by primary caregivers as having more total and internalizing problems and less total competence. Additionally, significantly more children with SCD exceeded clinical cutoffs on the CBCL. While caregivers of children with SCD perceive these children to be at a slightly elevated risk for problems across multiple domains, a significant number of children with SCD have problems in the clinical range. The authors recommend that vigorous screening programs for mental health problems should be included in the routine care of children with SCD, and programs of psychosocial intervention research should be implemented to ameliorate problems for the children at greatest risk.

Document Type: Proceedings Paper

Language: English

Author Keywords: sickle cell disease; psychological functioning; quality of life

KeyWords Plus: PSYCHOLOGICAL ADJUSTMENT; SOCIOECONOMIC STATUS; BRAIN-TUMORS; ADOLESCENTS; COMPETENCE; RATINGS; CANCER; ANEMIA; CHECKLIST; TEACHER

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Calles JL. Psychiatric issues in chronically ill adolescents. INTERNATIONAL JOURNAL ON DISABILITY AND HUMAN DEVELOPMENT 3 Sp. Iss. SI 279-282 JUL-SEP

Gold JI, Mahrer NE, Treadwell M, et al. Psychosocial and behavioral outcomes in children with sickle cell disease and their healthy siblings. JOURNAL OF BEHAVIORAL MEDICINE 6 506-516 DEC

Barakat LP, Patterson CA, Daniel LC, et al. Quality of life among adolescents with sickle cell disease: mediation of pain by internalizing symptoms and parenting stress. HEALTH AND QUALITY OF LIFE OUTCOMES AUG 9

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