Searching with ScienceDirect

NOTE: before reading this guide it is advisable that you read the following guides: Planning your search strategy and Developing your Search strategy

After connecting to ScienceDirect, choose Advanced search:

ScienceDirect Search: Searching full text of article, searching on two concepts:

Concept 1: “controlled burning”  2: bushfire
ScienceDirect Search: Results of two concepts: controlled burning, bushfire

"controlled burning" OR "prescribed burning"
AND
bushfire OR "wild fire"

... Scrolling down ...

Useful article? Look at the preview
1> Check the abstract 2> Check the article outline

Need more articles? Check relevancy of these suggestions
> recommended articles > related reference work

Abstract
Prescribed fire has been used in a constricted array of forests of southern Australia since the 1950s with the need to reduce the impacts on life, property and commercial forest values recognised as also playing an important role of high intensity fires on environmental values. Critical elements for an effective prescribed fire program include: a sound understanding of fire behaviour, an experienced and flexible workforce, and organisational commitment to adaptive management involving planning, monitoring...
ScienceDirect Search adding a third concept: Results of searching within results or limiting keyword: adding keyword Australia

<table>
<thead>
<tr>
<th>First concept:</th>
<th>&quot;controlled burning&quot; OR &quot;prescribed burning&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second concept:</td>
<td>bushfire OR &quot;wild fire&quot;</td>
</tr>
<tr>
<td>New concept:</td>
<td>Australia</td>
</tr>
</tbody>
</table>

From 202 results have been narrowed down to 138 articles.

Refining your Search Results:

Other ways you can quickly narrow your search is by other “facets” in the Refine results panel:

- **Limit to** – selecting more than one term will OR each selected term, and then AND it with the existing search strategy.
- **Exclude** is equivalent to NOT
- **Topics** - are the most frequently occurring keywords in any article
- **Narrow by date**: Year

**Bushfire risk at the urban interface estimated from historical weather records: consequences for the use of prescribed fire in the Sydney region of south-eastern Australia**

R. A. Bradstock, A. M. Gill, B. J. Kenny and J. Scott

The urban bushland interface around Sydney in south-eastern Australia is extensive. A history of destructive bushfires led to intense management of the urban interface. Prescribed burning is a major management technique. The motivation is to manipulate fuel loads so that the intensity of uncontrolled fires is reduced to a level where suppression is possible at the urban interface. Managers are faced with many options to terms of when, where and how often they burn at the urban interface but the effectiveness of differing strategies, in terms of protection, has not been evaluated. Prescribed burning was examined in the northern suburbs of Sydney in terms of its effect on the average annual rate of uncontrolled fire adjacent to buildings. The potential for uncontrolled fire in the new development and old communities is evaluated. Fire behavior was estimated using daily 1500 h values of the McArthur Forest Fire Danger Index (PFI) for the period 1985–1996 and related the behavior equation. The study considered a 300 m wide zone at the urban interface — 300 km in length, and integrated the effects of varying aspect, topography, and vegetation (fuel) types. Based on trends in fuels and daily weather data for 1985–1996, large amounts of this zone (54 and 27%, respectively) would need to be burnt annually to achieve average risk levels of uncontrolled fire of 1, 3 and 10 days per annum, respectively. The high uncontrolled fire was linked to changes in the frequency and rate of prescribed burning. Constraints on prescribed burning, such as available resources and suitable weather, will therefore have a large effect on protection. Other consequences of a range of prescribed burning scenarios are discussed.

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Keywords: bushfires, human protection, prescribed burning, risk, weather, fuels, fire management.
Finding more articles

Now you have found a relevant article you can find more relevant articles by looking at the “in text” references …

Important characteristics of fire behaviour in eucalypt forests identified by Luke and McArthur (1978) and in a recent review by Sullivan et al. (2012) include the potential for rapid rates of forward spread (up to 10 km h⁻¹), crowning and massive spotting with firebrands transported up to 30 km downwind under extreme fire danger conditions (Ellis, 2011 and Cruz et al., 2012).

… and following them to the reference list to find more articles.
Managing your Search results

Then once you are satisfied with the search results you can mark the relevant records and email the links to the article, or email the citation to enable the creation of the reference list.

Alternatively, ScienceDirect Help advises that you can download up to 20 articles if you are using Windows 7.x in conjunction with Internet Explorer version 8.x or 9.x. See ScienceDirect Help for more information.