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The screenshot shows the SpringerLink website. At the top, the address bar displays `link.springer.com`, with a callout bubble stating **URL: link.springer.com**. The website header includes the SpringerLink logo, a search bar, and navigation links for "Sign up / Log in", "English", and "Academic edition". Below the header, a sidebar on the left lists various disciplines under "Browse by discipline", including Biomedicine, Business and Management, Chemistry, Computer Science, Earth Sciences, Economics, Education, Engineering, Environment, Geography, History, Law, Life Sciences, Literature, and Materials Science. The main content area features a large text block stating: "Providing researchers with access to millions of scientific documents from journals, books, series, protocols and reference works." Below this text are two book covers: "COMPUTER VISION" and "Adaptive Hybrid Active Power Filters". To the right of the book covers, a purple box contains the text: "New books and journals are available every day." At the bottom of the main content area, the text "Featured Journals" is visible.

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Browse by discipline

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COMPUTER VISION

Adaptive Hybrid Active Power Filters

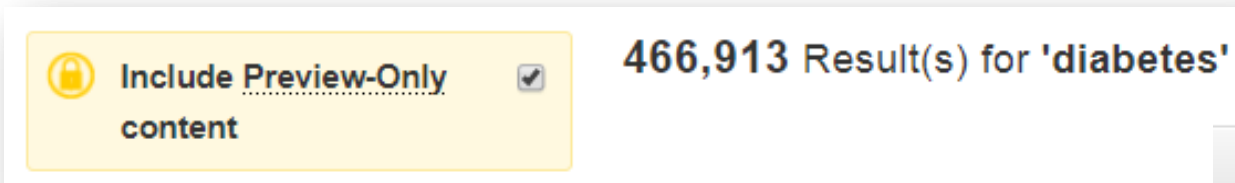
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(以Google關鍵字數據為準)



將包含預覽的顯示取消勾選，
僅顯示機構有訪問權的查詢
結果

找到您所需要的內容

European Biophysics Journal
October 2012, Volume 41, Issue 10, pp 789-799 | [Cite as](#)

Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS)

Authors Authors and affiliations
Michel Hammel

Open Access | Review
First Online: 26 May 2012

2.2k Downloads 54 Citations

Abstract

The dynamics of macromolecular conformations are critical to the action of cellular networks. Solution X-ray scattering studies, in combination with macromolecular X-ray crystallography (MX) and nuclear magnetic resonance (NMR), strive to determine complete and accurate states of macromolecules, providing novel insights describing allosteric mechanisms, supramolecular complexes, and dynamic molecular machines. This review addresses theoretical and practical concepts, concerns, and considerations for using these techniques in conjunction with computational methods to productively combine solution-scattering data with high-resolution structures. I discuss the principal means of direct identification of macromolecular flexibility from SAXS data followed by critical concerns about the methods used to calculate theoretical SAXS profiles from high-resolution structures. The SAXS profile is a direct interrogation of the thermodynamic ensemble and techniques such as, for example, minimal ensemble search (MES), enhance interpretation of SAXS experiments by describing the SAXS profiles as population-weighted thermodynamic ensembles. I discuss recent developments in computational techniques used for conformational sampling, and how these techniques provide a basis for assessing the level of the flexibility within a sample. Although these approaches sacrifice atomic detail, the knowledge gained from ensemble analysis is often appropriate for developing hypotheses and guiding biochemical experiments. Examples of the use of SAXS and combined approaches with X-ray crystallography, NMR, and computational methods to characterize dynamic assemblies are presented.

Keywords

Small-angle X-ray scattering (SAXS) Macromolecular flexibility Rigid-body modeling Ensemble analysis

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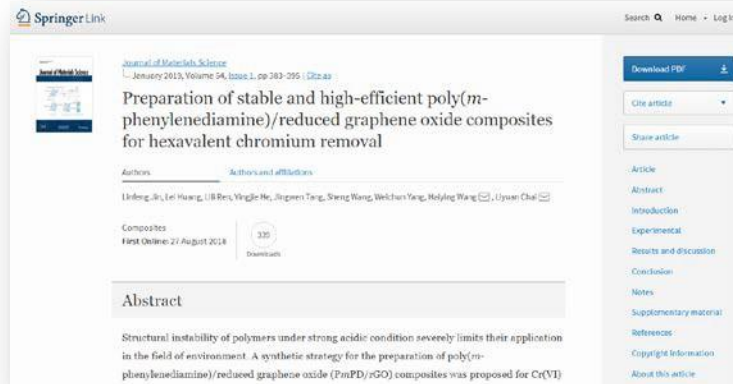
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- Distance constraints in rig...
- The conformational ense...
- Conclusions and prospects
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- (1) Search Function:** A search bar with the placeholder text 'Search' and a magnifying glass icon.
- (2) Browse by discipline:** A list of academic disciplines with expandable arrows (») next to each item:
 - » Biomedicine
 - » Business and Management
 - » Chemistry
 - » Computer Science
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 - » Psychology
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 - » Statistics
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 - A banner for 'New books and journals are available every day.' featuring two book covers: 'LMP Letters in Mathematical Physics' and 'DISASTER RELIEF AND CHALLENGES'.
 - A section titled 'Featured Journals' displaying four journal covers: 'MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING', 'International Journal of Thermophysics', 'Theory of Computing Systems', and 'Journal of Dynamical and Control Systems'.
 - A section titled 'Featured Books' (partially visible at the bottom).

首頁分成三個部分:

1) 搜索功能

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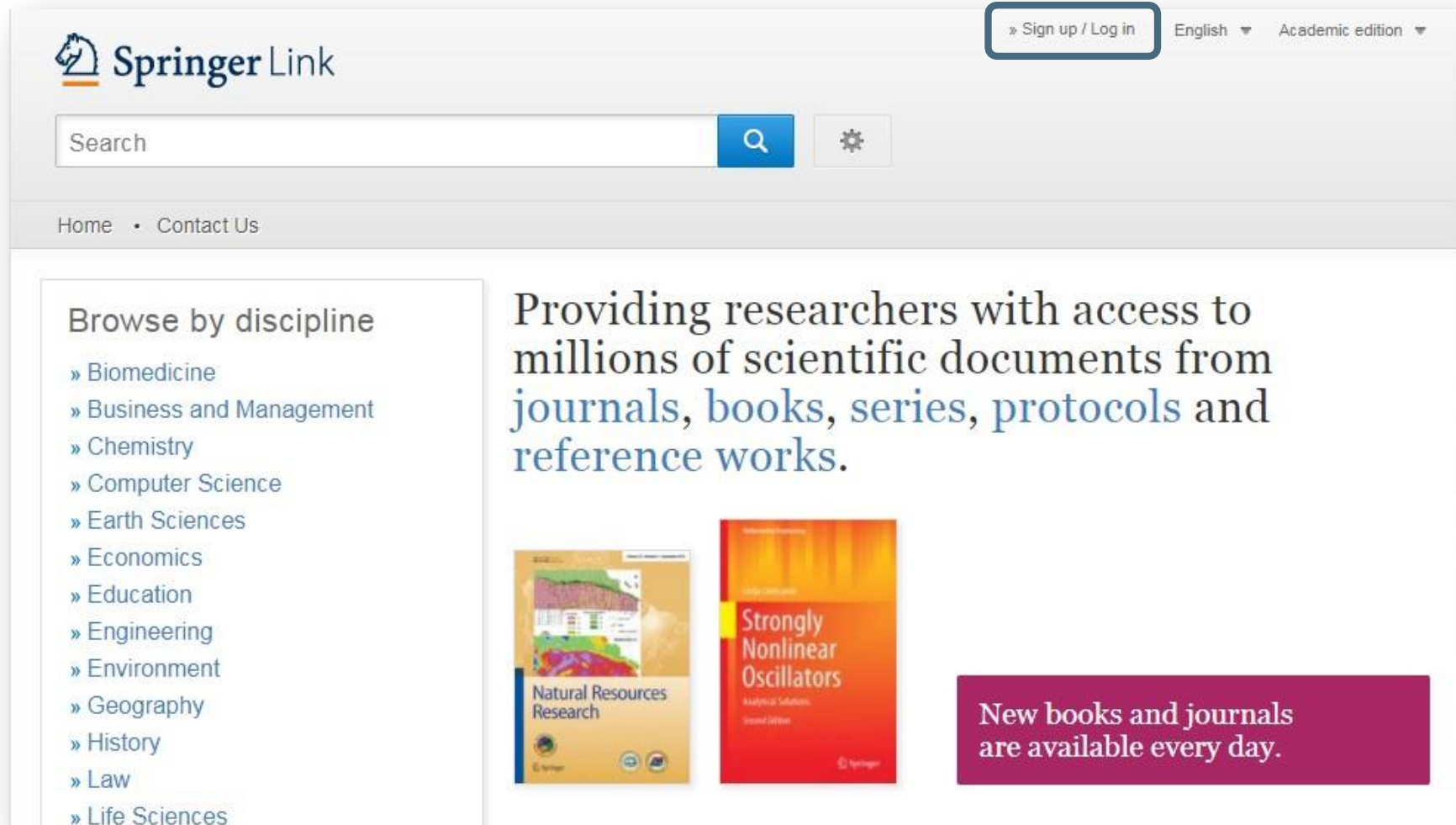
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On the left side, under the heading "Browse by discipline", there is a list of academic fields with right-pointing chevrons:

- » Biomedicine
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- » Education
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- » Environment
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- » History
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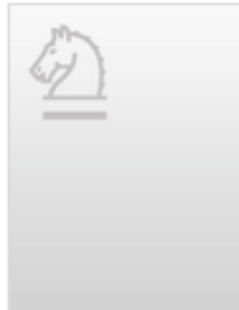
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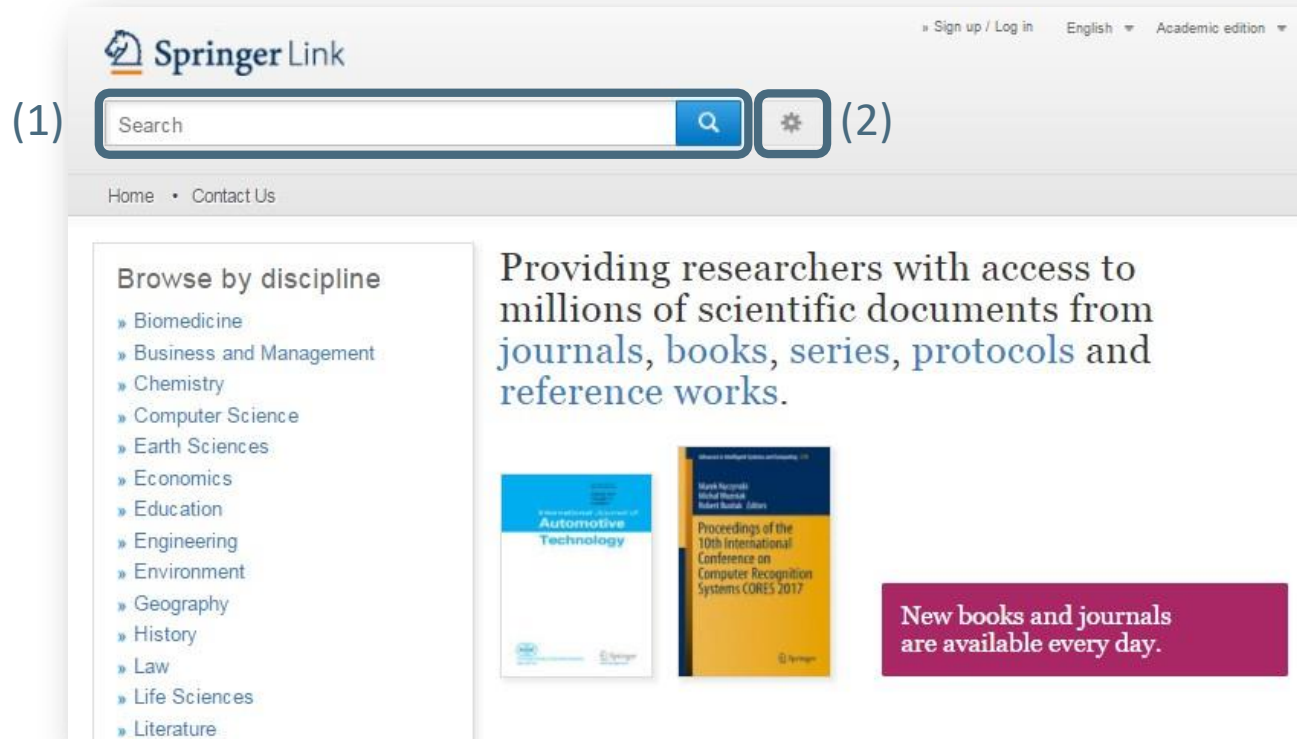


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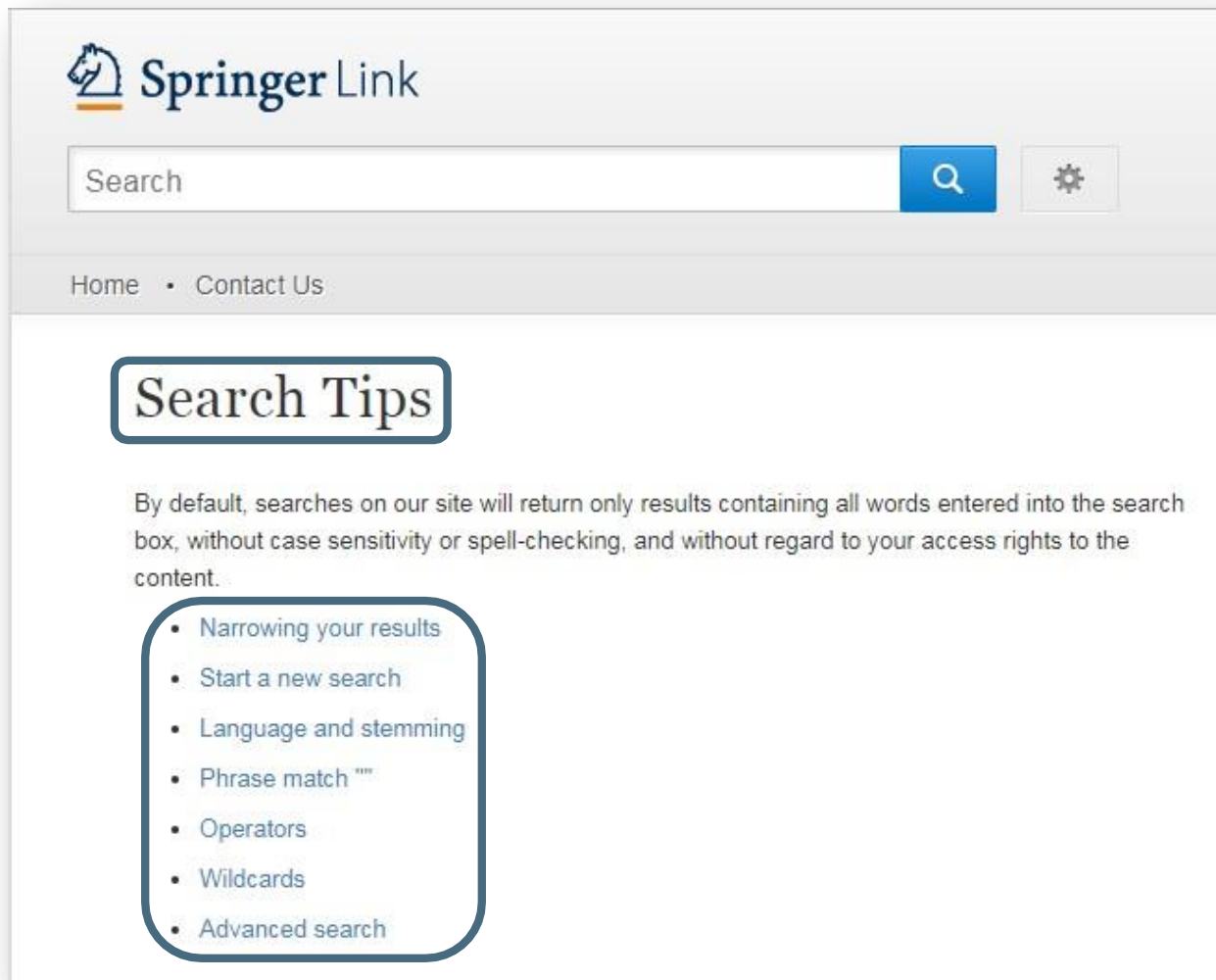
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By default, searches on our site will return only results containing all words entered into the search box, without case sensitivity or spell-checking, and without regard to your access rights to the content.

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- Wireless Communication Networks and Internet of Things
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Conference Papers	1,017,082
Reference Work Entries	516,618
Protocols	50,536

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如果您點擊某個學科，您將會進入到該學科的頁面

您也可以按內容的類型來瀏覽

在學科導航框的下方，您可以找到詳細的內容類別：
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Page 1 of 49,163

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between
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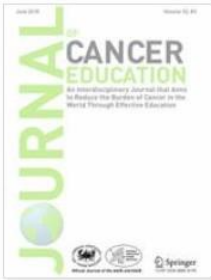
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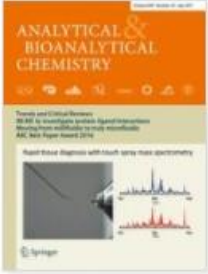
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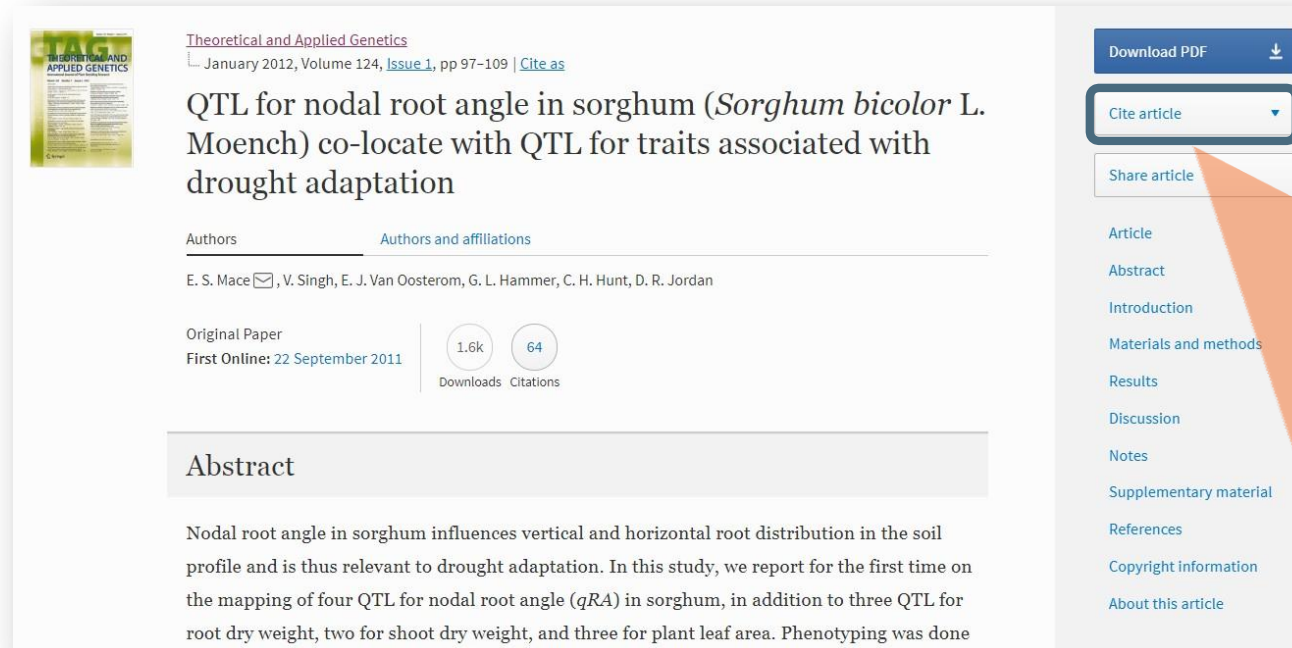
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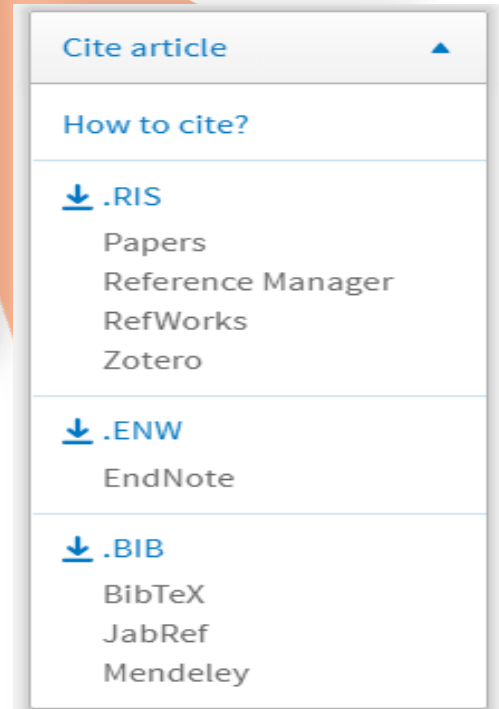
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Bengough AG, Gordon DC, Al-Menaie H, Ellis RP, Allan D, Keith R, Thomas WTB, Forster BP (2004) Gel observation chamber for rapid screening of root traits in cereal seedlings. *Plant Soil* 262:63–70

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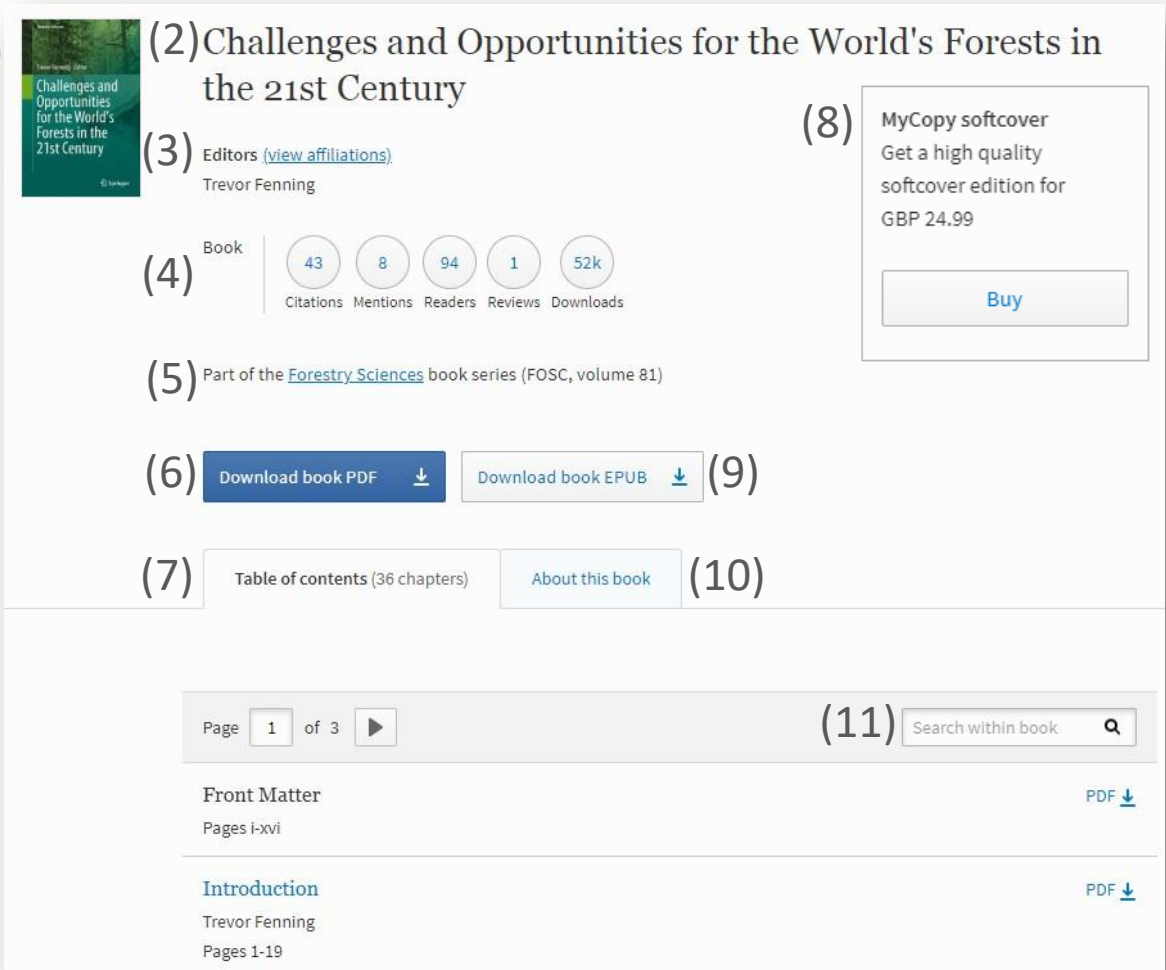
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1. Forest Research, Northern Research Station, UK Forestry Commission, Edinburgh, United Kingdom

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- (3) Authors [Authors and affiliations](#)
- Jeongmi (Jamie) Kim, Daniel R. Fesenmaier 
- (4) Chapter
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- (6) Abstract
- This chapter argues that experiences are dynamic and emotional in nature and should be conceptualized as a series of 'micro-events' during the trip. Further, the advent of new sensor technology provides new tools for understanding the ways in which these experiences—events are perceived and the meanings created hold great promise in addressing a number of critical questions empowering the design of tourism places. We then describe traveler experiences through a series of case studies.
- (7) Keywords
- Tourism experience Emotion Events Physiological response Tourism design
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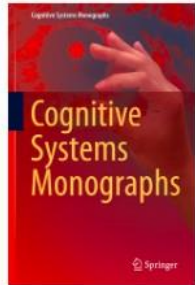
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