

WILEY

WILEY ONLINE LIBRARY



Wiley Online Library

www.wileyonlinelibrary.com

The screenshot displays the Wiley Online Library homepage. At the top, the site name 'Wiley Online Library' is on the left, and a 'Log in / Register' link with a user icon is on the right. Below this is a teal navigation bar with links for 'Publications', 'Browse By Subject', 'Resources', and 'About Us'. A large banner with the 'WILEY' logo is positioned below the navigation bar. The main content area is divided into several sections: a 'SEARCH' section on the left with a search bar, radio buttons for 'All content' (selected) and 'Publication titles', and links for 'Advanced search' and 'Saved search'; a 'PUBLICATIONS A - Z' section with an alphabetical index; a 'BROWSE' section listing various academic disciplines; a 'RESOURCES' section with links for 'Training', 'For researchers', 'For librarians', 'For societies', 'For authors', and 'Open Access'; and three promotional boxes on the right for 'TRAINING AND TUTORIALS', 'REGISTER FOR ALERTS', and 'OPEN ACCESS'.

Wiley Online Library [Log in / Register](#)

[Publications](#) [Browse By Subject](#) [Resources](#) [About Us](#)

WILEY

SEARCH

☒ All content ☐ Publication titles

[Advanced search](#) [Saved search](#)

PUBLICATIONS A - Z

A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z 0-9

BROWSE

- Agriculture, Aquaculture & Food Science
- Architecture & Planning
- Art & Applied Arts
- Business, Economics, Finance & Accounting
- Chemistry
- Computer Science & Information Technology
- Earth, Space & Environmental Sciences
- Humanities
- Law & Criminology
- Life Sciences
- Mathematics & Statistics
- Medicine

RESOURCES

Training
Tutorials, webinars and user guides

For researchers
Personalization options and email alerts

For librarians
Product and access information

For societies
Get the most out of publishing with us

For authors
Resources and online services

Open Access
Publish open access in our subscription journals with the OnlineOpen option or choose from our fully open access program: Wiley Open Access.

TRAINING AND TUTORIALS
Self-paced tutorials available 24/7

REGISTER FOR ALERTS

OPEN ACCESS

Wiley Online Library

概述

第 I 部分

- 新介面
- 收錄內容

第 II 部分

- 註冊與登入
- 個人化功能
- 使用權限圖示
- 瀏覽內容
- 查詢
 - 期刊
 - 電子書
 - 電子百科
 - 實驗室操作手冊
 - 資料庫
- 資源
- 客戶管理

Wiley Online Library

第I部分：新介面

Wiley Online Library

獎項

下一代的內容平台，收藏多種學科的
廣泛線上資源內容。

以 eProduct／最佳多學科平台榮獲 PROSE 獎
for eProduct / Best Multidiscipline Platform 。
華盛頓特區，2011年2月3日。

The PROSE Awards

The American Publishers Awards for Professional and Scholarly Excellence



Wiley Online Library

出版逾450位諾貝爾獎得主的文獻



Wiley Online Library

使用介面

提供給圖書館

- 使用權限圖示 
- 符合 COUNTER 標準的使用統計資料
- 符合 OpenURL 標準
- 出版品、文章和章節層次皆有 DOIs
- 網頁可顯示機構圖像
- 透過 OCLC 為所有的線上書籍客戶提供 MARC 格式

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新介面

為研究族群提供更方便的查詢功能

- 強化探索功能，以便於從 **Google** 及其它搜尋引擎查尋收錄的相關內容
- 在平台內可交互查詢所有出版品的全文
- 每一個頁面皆會列出與學會及出版品有關的訊息
- 各出版品的頁面皆有豐富的内容訊息及許多新的功能
- 新的主題頁面會列出所有相關主題的出版品與新知通訊
- 以 **HTML** 格式瀏覽全文，可直接連結參考書目、放大圖像與輕鬆搜尋內文
- **PDF** 檔，易於列印
- **新推出！** Wiley 線上圖書館在先前發表的 **Labtiva's ReadCube Web Reader** 中，提供更佳的 **PDF** 相關功能。
 - 免費跨平台的桌面應用程式
 - 讓研究人員能建立及管理自己的內容庫，並以直覺操作的方式，透過每日推薦之內容在自己的研究領域中發現新的文獻。



Wiley Online Library

收錄內容

大約 **1,500** 種期刊（逾400萬篇文章）

超過**14,000**本電子書

130 多種電子百科

17 種實驗室操作手冊（16,000 種以上的實驗室手冊）

13種專業資料庫（化學與實證醫學）



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收錄內容：學科領域

既深且廣的跨學科線上資源，主題分類逾 **100** 個子主題，類別如下：

農業、漁業及食品科學

建築及規畫

藝術及應用藝術

商業、經濟、金融及會計

化學

計算機科學及資訊技術

地球與環境科學

人文科學

法律及犯罪學

生命科學

數學及統計學

醫學

護理、牙科及保健

物理科學及工程

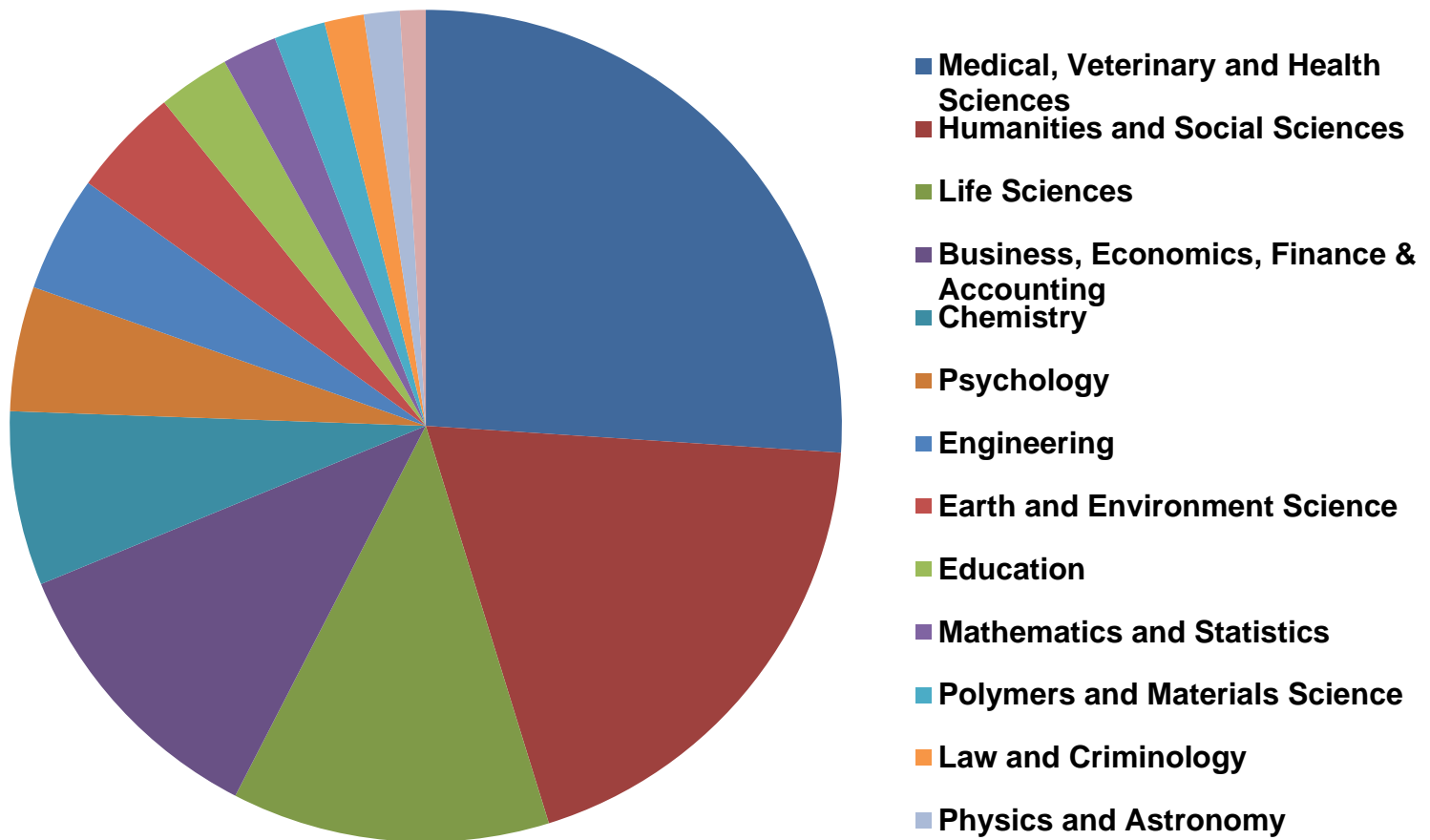
心理學

社會與行為科學

獸醫學

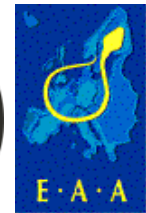
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收錄內容：期刊



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合作對象



Wiley-Blackwell 代表超過
800個學術及專業研究學會出
版著作



WILEY 期刊

Wiley Online Library

2012年期刊引用報告

- **1,192** 項 **Wiley** 期刊現有的影響指數（**IF**）。
- **25** 項 **Wiley** 期刊在 **31** 項 **JCR** 類別中達到第一，**2011**年則有**21**項期刊。
- **264** 項 **Wiley** 期刊在 **341** 項 **JCR** 類別中達到前十名，**2011**年則有**237**項期刊。
- **59.4%** 的 **Wiley** 期刊之影響指數上升。
- 在**232**個學科類別中，有**218**個出現 **Wiley** 的書目。
- **Wiley** 的期刊在**50**個類別中佔有最高比例。
- **CA – A Cancer Journal for Clinicians** 期刊在 **JCR** 中持續獲得最高的影響指數。

資料來源：2012 Impact Factor and Journal Ranking: Thomson ISI ® 2012 Journal Citation Reports (JCR).

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Wiley 跨學科評鑑期刊

WIREs 為獨特的**混合式出版品**，結合了功能最強大的線上參考文獻與審核期刊，在研究教育方面則強調**跨學科合作**的重要性。

由於他們著重於傳統研究領域之介面中具高度影響性的主題，並強調個別文章層次的**跨學科外展活動**，因此WIREs 為科學及學術研究的**跨學科溝通**，提供一個寶貴的新論壇



The PROSE Awards
The American Publishers Awards for Professional and Scholarly Excellence



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Wiley 跨學科評鑑期刊

從 **2014**年起，可選擇免費試用線上存取 **WIREs**（機構）

- WIREs Water

可訂閱 **WIREs**

- WIREs Computational Molecular Science (*2012 Impact Factor 5.738*)
- WIREs Data Mining and Knowledge Discovery (*2012 Impact Factor 1.422*)
- WIREs RNA (*2012 Impact Factor 4.186*)
- WIREs Nanomedicine and Nanobiotechnology (*2012 Impact Factor 5.681*)
- WIREs Computational Statistics
- WIREs Climate Change (*2012 Impact Factor: 3.462*)
- WIREs Cognitive Science (*2012 Impact Factor: 1.489*)
- WIREs Systems Biology and Medicine (*2012 Impact Factor: 3.676*)
- **WIREs Developmental Biology**
- **WIREs Energy and the Environment**
- **WIREs Membrane Transport and Signaling**

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回溯期刊

數十年的發現已完成全數位化！

- 跨越三個世紀、超過1400萬頁的科學發現內容、跨927個書目（截至2013年8月），且最早可回溯至1700年代。
- 涵蓋科學、科技、醫學、商業和社會科學等學科。
- 以全文 **PDF** 檔案格式呈現文章內容，並可在掃描時進行最佳化調整，以獲得最佳的列印品質。
- 與同一期刊的現有內容全面整合

優點

增加館藏且補齊缺刊、提供紙本的已絕版期刊
以節省讀者及館員調閱紙本過刊的時間、節省期刊排架的空間

ONLINE BOOKS

Click. Read. Research.

wileyonlinelibrary.com

WILEY

電子書

Wiley Online Library

電子書。無限可能

Wiley Online Library 上的
Wiley BOOKS 電子版內容



農業 建築 藝術
商業 計算機科學
地球與環境科學 人文科學
法律 生命科學 數學
醫學與護理 物理學
科學與工程
社會與行為科學
獸醫學

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電子書。優點

超過14,000 本電子書

- 每月加入30到50本新書
- 許多內容與紙本同時出版
- 一次性購買即擁有永久存取權限
- 符合 **COUNTER** 標準的使用統計資料
- 一週七天、一天24小時，隨時隨地以靈活便利的方式存取
- 參考書目交叉連結
- 無限制的同時使用者數量
- **PDF** 格式的全文內容
- **MARC** 紀錄



Wiley Online Library

電子書。前25項學科典藏項目

分析化學

生化科技

細胞與分子生物學

化學工程

土木工程

電子電程工程

環境化學

腸胃病學 與肝病學

血液學

歷史

無機化學

文學

材料科學

機械工程

奈米科學

有機化學

製藥與藥品化學

哲學

物理學

聚合物科學與科技

精神病學

心理學

訊號、語音及影像處理

統計學



Grow your
digital library

Wiley Online Books

Now featuring more than 14,000 monographs, handbooks,
dictionaries, companions and landmark book series.

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數位書籍資源

<http://www.wileyonlinelibrary.com/go/DigitalBooksLibrary>

Digital Books Resources for Your Library



Make the MOST of your Wiley Digital Books! Find out more about ONLINE BOOKS and REFERENCE WORKS, see our BESTSELLERS and AWARD WINNERS, and access RESOURCES which will help with awareness, discoverability and usage at your institution.

Online Books

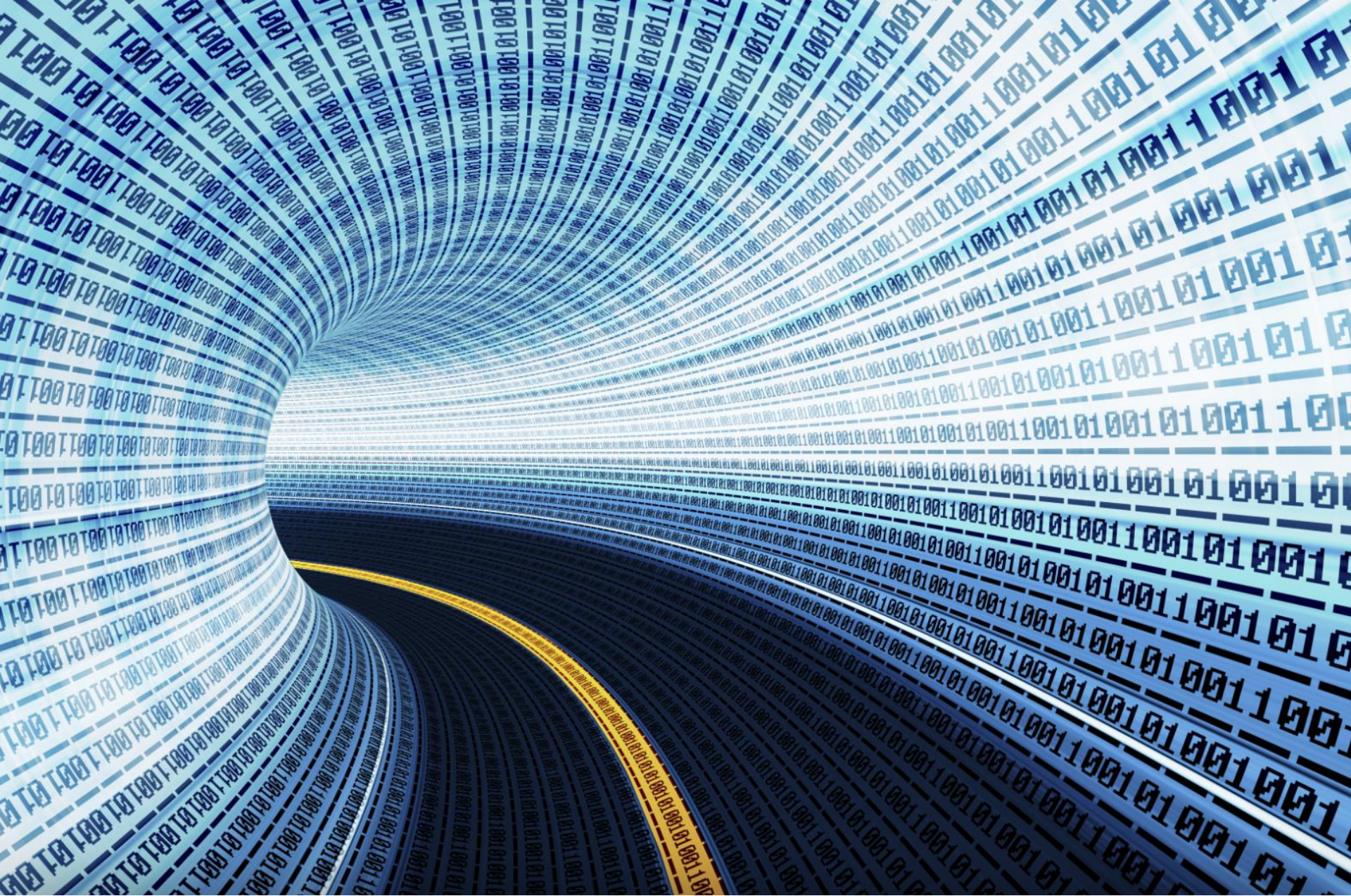
Online Reference Works

MARC Records

Bestsellers

Awards

Resources



WILEY 電子百科

Wiley Online Library

電子百科

Wiley Online Library的電子百科為一套多本，
涵蓋科學、科技與醫學領域的百科全書、手冊和字典。

- 提供逾130種書目
- 可搜尋全文
- 經常進行更新（特定書目）
- 經主管機關與同儕審核



Wiley Online Library

電子百科



涵蓋廣泛的生命科學領域，
逾**4,900**篇文章，跨**15**個學科領域。

The screenshot shows the Wiley Online Library eLS homepage. At the top, the Wiley logo is on the left, and navigation links for 'About Wiley' and 'View Related Sites' are on the right. Below the Wiley logo is the eLS logo and the tagline 'Citable reviews in the life sciences'. A navigation bar contains 'HOME', 'TOPICS', and 'LATEST ARTICLES'. A search bar with the placeholder 'Enter keyword(s)' and a 'Search eLS' button is located on the right. The main content area is divided into three sections: 'Select a Topic' (a grid of 15 topics including Biochemistry, Bioethics & Philosophy, Cell Biology, Developmental Biology, Ecology, Evolution & Diversity of Life, Genetics & Disease, Immunology, Microbiology, Molecular Biology, Neuroscience, Plant Science, Science & Society, Structural Biology, and Virology), 'Explore a Theme' (a list of themes including Obesity, GWAS & Complex Disease, Stem Cells, Sociobiology, RNA Silencing, Microscopy, and a 'More Themes >' link), and 'In the Spotlight' (featuring two profiles: Robin Attfield, Professor of Philosophy at Cardiff University, and William L. Nyhan, with over 50 years of study of disorders of metabolism). At the bottom right, there is a 'Sign up for e-alerts' button.



WILEY

實驗室操作手冊

Wiley Online Library

實驗室操作手冊

- 25年歷史。第一個書目：Current protocol in Molecular Biology
 - 16, 000項經同儕審核、經常更新的實驗室程序
 - 由頂尖研究科學人員開發的先進實驗操作手冊
 - 80位令人尊敬的編輯
 - 在 Pubmed 與 Scopus 中建立索引
-

生物資訊
細胞生物學
化學生物學
流式細胞術
人類遺傳學
免疫學

核磁共振成像
微生物學
分子生物學
鼠類生物學（新推出！）
神經科學
必備實驗技術

核酸化學
藥理學
蛋白質科學
幹細胞生物學
毒物學



Wiley Online Library

建立個人檔案

MY PROFILE HOME

My Profile Home

ACCOUNT

Account Information
Edit Login Information
Orders & Subscriptions
National Provision

ACCESS

Subscription Access
Society Membership
Trial Access
Roaming Access

SAVED

Saved Articles/Chapters
Saved Publications
Saved Searches
Alert Manager

儲存個人查詢資料

儲存查詢

擷取、編輯及重新執行已儲存的查詢內容，找出符合查詢參數的全新或已歸檔材料內容。

儲存出版品

儲存常用的出版品清單，以便能快速、有效率地進行研究。

儲存文章

儲存常用的文章庫，以便能快速、有效率地進行研究，或建立未來的引用資訊。

管理個人化通知

內容通知

以電子郵件通知包含 Wiley 線上圖書館期刊內容的表格。

查詢通知

當符合查詢條件之新報告出版時，以電子郵件進行通知。

引用通知

您選擇的文章被引用時，將會收到電子郵件通知。

Wiley Online Library

資源

圖書館員：wileyonlinelibrary.com/librarians

圖書館行銷：<http://www.wileyonlinelibrary.com/go/LibraryMarketingToolkit>

訓練：wileyonlinelibrary.com/training

教學：wileyonlinelibrary.com/tutorials

研究人員：wileyonlinelibrary.com/researchers

作者：wileyonlinelibrary.com/authors

Wiley 作者服務：<http://authorservices.wiley.com>

Wiley Online Library

第II部分：註冊與登入

Wiley Online Library

第II部分：註冊與登入－優點

MY PROFILE HOME

My Profile Home

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Account Information
Edit Login Information
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National Provision

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儲存常用的文章庫，以便能快速、有效率地進行研究，或建立未來的引用資訊。

管理個人化通知

內容通知

以電子郵件通知包含 **Wiley** 線上圖書館期刊內容的表格。

查詢通知

當符合查詢條件的新報告出版時，以電子郵件進行通知。

引用通知

您選擇的文章被引用時，將會收到電子郵件通知。

Wiley Online Library

註冊與登入

The screenshot displays the Wiley Online Library homepage. At the top, the logo and navigation links are visible. A purple box highlights the 'Registration' section, which includes a list of benefits such as receiving email alerts and saving articles. A blue box highlights the 'LOGIN' section, which contains a text input field for an email address. A red box highlights the 'NOT REGISTERED ? FORGOTTEN PASSWORD ?' link. A green box highlights the 'MY PROFILE' link in the user menu. Below the login section, the user's profile is shown, including the name 'Meiling Tang' and email 'mltang@wiley.com'. A red box highlights the 'My Profile' section, which provides a summary of the user's account and a list of saved items and alerts. A blue box highlights the 'Author Services' section, which lists benefits like 'Your Benefits', 'Your Rights', and 'Enhancing Your Publishing Experience'.

WILEY ONLINE LIBRARY

PUBLICATIONS | BROWSE BY SUBJECT | RESOURCES | ABOUT US

WILEY ENABLES DISCOVERY
Share knowledge across disciplines, professions and cultures

Registration

- Register on Wiley Online Library to:
- Receive email alerts for new content and saved searches
- Save articles, publications and searches to your profile
- Purchase individual articles and chapters
- Receive email updates and promotional offers on Wiley books and journals relevant to you
- Track your accepted article if you are a journal contributor

If you have previously registered on Wiley InterScience your details have been migrated and you can log in with the same name and password.

Required Field

Information

First Name: *

Last Name: *

E-mail Address: *

Password: *

Re-type Password: *

A one-time confirmation e-mail will be sent to this address. Your e-mail will

Passwords must be alphanumeric (no special characters) between 5 and 32

LOGGED IN
Meiling Tang

MY PROFILE >
INSTITUTIONAL LOGIN >
LOG OUT >

PUBLICATIONS
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

MY PROFILE HOME
My Profile Home

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National Provision

ACCESS
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Society Membership
Trial Access
Roaming Access

SAVED
Saved Articles/Chapters
Saved Publications
Saved Searches
Alert Manager

My Profile
Meiling Tang
mltang@wiley.com

This is your personal profile area for Wiley Online Library. Use the menu on the left to access your saved content, manage your e-mail alerts, orders and subscriptions, and update your account details.

Saved Items and Alerts

- Saved Articles (4)
- Saved Publications (7)
- Saved Searches (2)
- Alert Manager (8)

Author Services
Your Benefits
Your Rights
Enhancing Your Publishing Experience

Wiley Online Library

註冊與登入

Wiley Online Library

WILEY

Logged In: **Meiling Tang**
[My Profile](#) [Institutional Login](#) [Log Out](#)

MY PROFILE HOME
[My Profile Home](#)

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mltang@wiley.com

This is your personal profile area for Wiley Online Library. Use the menu on the left to access your saved content, manage your e-mail alerts, orders and subscriptions, and update your account details.

Saved Items and Alerts

[Saved Articles \(2\)](#)
[Saved Publications \(9\)](#)
[Saved Searches \(10\)](#)
Cochrane Saved Searches (0)
Cochrane Saved Medical Term (MeSH) Searches (0)
Cochrane Saved Strategies (0)
[Alert Manager \(4\)](#)

Author Services
Your Benefits
Your Rights
Enhancing Your Publishing Experience

Wiley Online Library
Publications About Us
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Site Map

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Wiley Job Network

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☐ Please include me on your mailing list to receive brochures and other printed information about

By regular mail: ☐ Medicine

Wiley Online Library

註冊與登入

WILEY ONLINE LIBRARY

LOGGED IN
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My Profile
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mltang@wiley.com

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Saved Items and Alerts

- Saved Articles (6)
- Saved Publications (1)
- Saved Searches (5)
- Alert Manager (7)

Author Services
Your Benefits
Your Rights
Enhancing Your Publishing Experience

Wiley Online Library

第II部分： 個人化與使用權限圖示

Wiley Online Library

個人化：儲存文章／章節／出版品／查詢

登入我的資料夾「My Profile」

MY PROFILE HOME
My Profile Home

ACCOUNT
Account Information
Edit Login Information
Orders & Subscriptions
National Provision

ACCESS
Subscription Access
Society Membership
Trial Access
Roaming Access

SAVED
Saved Articles/Chapters
Saved Publications
Saved Searches
Alert Manager

LOGIN

Enter e-mail address
Enter password
REMEMBER ME
NOT REGISTERED ?
FORGOTTEN PASSWORD ?
INSTITUTIONAL LOGIN >

Saved Searches | You have 1 saved search

Listed below are your saved searches. Here you can retrieve, edit, and re-run your saved search to find new or archived material matching your search parameters. You can also take advantage of our convenient alerting service, which will automatically alert you via e-mail, when an article matching your search has been published. New searches can be saved as you search.

☐ Select All [Delete selected searches](#)

1. **Universiti Sains Malaysia in Author Affiliation AND Chemical Engineering in Publication Titles** [Run search](#) [Activate search alert](#)

☐ Select All [Delete selected searches](#)

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Volume 22, Issue 1, January 2007, Pages: 6–18, Satish V. Ukkusuri, Tom V. Mathew and S. Travis Waller
Article first published online : 20 NOV 2006, DOI: 10.1111/j.1467-8667.2006.00465.x
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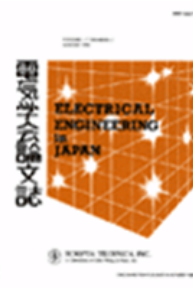
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Article first published online : 7 APR 2011, DOI: 10.1111/j.1875-595X.2005.tb00317.x
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Are health professionals responsible for the shortage of organs from deceased donors in Malaysia?

Zada L. Zainal Abidin^{1,*}, Wee Tong Ming², Alexander Loch², Ida Hilmi², Oliver Hautmann³

Article first published online: 3 DEC 2012
DOI: 10.1111/tri.12019

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COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING

A Methodology for Assessing Transportation Network Terrorism Risk with Attacker and Defender Interactions

Pamela M. Murray-Tuite^{1,*}, Xiang Fei²

Article first published online: 17 FEB 2010
DOI: 10.1111/j.1467-8667.2010.00655.x
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Volume 25, Issue 6, pages 396–410, August 2010

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Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism

Eduardo Contreras-Reyes¹, Ingo Grevemeyer², Anthony B. Watts³, Ernst R. Flueh², Christine Peirce⁴, Stefan Moeller², Cord Papenberg²

Article first published online: 13 OCT 2011

DOI: 10.1029/2011JB008434

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The 2004–2008 eruption of Mount 2008; Vallance et al., 2008), produced communication, 2013). The eruption in nature and highly repetitive both al., 2008); Thelen et al., 2008). Was seismogenic, with $M \geq 2$ earthquakes the vent-clearing phase provides a stratovolcano.

Two notable features of the vent-d following each explosion and/or tremor occurred following a phreatic explosion: 50 min long energetic tremor episode. October tremor itself, which was re- Observatory to raise the level-of- discharge occurred in association nonexplosion tremor.

Although there was no explosion or occurred in association with rise of



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10.1002/2013JB010698

- Volcanic tremor may result from cataclastic deformation along conduit wall
- Tremor source completely masked by conduit resonance/waveguide phenomena

Volcanic tremor masks its seismogenic source: Results from a study of noneruptive tremor recorded at Mount St. Helens, Washington

Roger P. Denlinger¹ and Seth C. Moran²

¹Cascades Volcano Observatory, Vancouver, Washington, USA, ²U.S. Geological Survey, Vancouver, Washington, USA


Abstract On 2 October 2004, a tremor episode occurred during the buildup to the 2004–2008 eruption of Mount St. Helens (Washington). This episode was remarkable both because no explosion followed, and because seismicity abruptly stopped following the episode. This sequence motivated us to consider a model for volcanic tremor that does not involve energetic gas release from magma but does involve movement of conduit magma through extension on its way toward the surface. We found that the tremor signal was composed entirely of Love and Rayleigh waves and that its spectral bandwidth increased and decreased with signal amplitude, with broader bandwidth signals containing both higher and lower frequencies. Our modeling results demonstrate that the forces giving rise to this tremor were largely normal to conduit walls, generating hybrid head waves along conduit walls that are coupled to internally reflected waves. Together these form a crucial part of conduit resonance, giving tremor wavefields that are largely a function of waveguide geometry and velocity. We find that the mechanism of tremor generation fundamentally masks the nature of the seismogenic source giving rise to resonance. Thus multiple models can be invoked to explain volcanic tremor, requiring that information from other sources (such as visual observations, geodesy, geology, and gas geochemistry) be used to constrain source models. With concurrent GPS and field data supporting rapid rise of magma, we infer that tremor resulted from drag of nearly solid magma along rough conduit walls as magma was forced toward the surface.

R. P. Denlinger,
roger@usgs.gov


Denlinger, R. P., and S. C. Moran (2014). Volcanic tremor masks its seismogenic source: Results from a study of noneruptive tremor recorded at Mount St. Helens, Washington, *J. Geophys. Res. Solid Earth*, 119, doi:10.1002/2013JB010698.

Received 19 SEP 2013
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Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism

Eduardo Contreras-Reyes¹, Ingo Grevemeyer², Anthony B. Watts³, Ernst R. Flueh², Christine Peirce⁴, Stefan Moeller², Cord Papenberg²

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Ting Zhang, Gu-jin Hu , Hai-Jun Bu, Rui Cong, Xin Chen, Guo-Lin Yu, Xiang-Jian Meng, Jun-Hao Chu, Ning Dai 

First published: 12 July 2011 [Full publication history](#)

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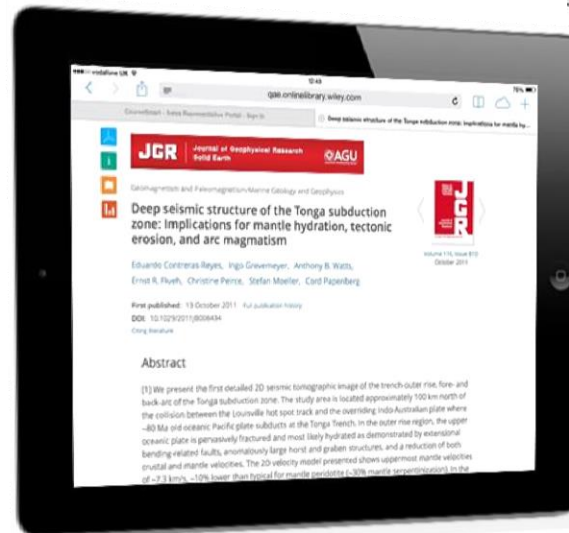
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A unique configuration of $\text{PbZr}_{0.4}\text{Ti}_{0.6}\text{O}_3$ multilayer stack was designed and grown on F-doped tin oxide thin film by spin casting and annealing process. The multilayer system exhibits a broad reflection band with peak reflectivity over 95% and band width no < 40 nm, a dielectric constant of 520 and dielectric tunability of ~49% at 1 MHz, a remanent polarization of $46.8 \mu\text{C}/\text{cm}^2$, and a polarization loss of < 5% after 10^9 polarization switching cycles, rendering excellent performance as 1D photonic crystals and as ferroelectric and dielectric media. This material structure may find application in photonic band-gap engineering, microwave tunable devices, and integrated optoelectronics.

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Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism

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Abstract

[1] We present the first detailed 2D seismic tomographic image of the trench-outer rise, fore- and back-arc of the Tonga subduction zone. The study area is located approximately 100 km north of the collision between the Louisville hot spot track and the overriding Indo-Australian plate where ~80 Ma old oceanic Pacific plate subducts at the Tonga Trench. In the outer rise region, the upper oceanic plate is pervasively fractured and most likely hydrated as demonstrated by extensional bending-related faults, anomalously large horst and graben structures, and a reduction of both

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Issue published online:
13 October 2011

Article first published online:
13 October 2011

Manuscript Accepted:
15 July 2011

Manuscript Revised:
9 July 2011

Manuscript Received:
8 April 2011

Keywords

Tonga; arc magmatism;
hydration; island arc; mantle
wedge; tectonic erosion

Index terms:

Subduction zone processes
Submarine landslides

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Geomagnetism and Paleomagnetism/Marine Geology and Geophysics

Deep seismic structure of the Tonga subduction zone: Implications for mantle hydration, tectonic erosion, and arc magmatism

Eduardo Contreras-Reyes, Ingo Grevemeyer, Anthony B. Watts, Ernst R. Flueh,
Christine Peirce, Stefan Moeller, Cord Papenberg

First published: 13 October 2011 [Full publication history](#)

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Volume 116, Issue B10
October 2011

Abstract

[1] We present the first detailed 2D seismic tomographic image of the trench-outer rise, fore- and back-arc of the Tonga subduction zone. The study area is located approximately 100 km north of the collision between the Louisville hot spot track and the overriding Indo-Australian plate where ~80 Ma old oceanic Pacific plate subducts at the Tonga Trench. In the outer rise region, the upper oceanic plate is pervasively fractured and most likely hydrated as demonstrated by extensional bending-related faults, anomalously large horst and graben structures, and a reduction of both bending-related faults, anomalously large horst and graben structures, and a reduction of both

Abstract

1. Introduction
2. Tectonic Setting
3. Wide-Angle Seismic Data
4. Seismic Tomography
5. Gravity Modeling
6. Interpretation and Discussion
7. Conclusions


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 <div><h3>References</h3><div><p>Hacker, B. R. (2008), H2O subduction beyond arcs, <i>Geochem. Geophys. Geosyst.</i>, 9, Q03001, doi:10.1029/2007GC001707</p><p>CrossRef</p><p>CAS</p><p>Web of Science® Times Cited: 52</p><p>ADS</p><p>Wiley Online Library</p></div></div>	<h3>1. Introduction</h3> <p>[2] The amount of volatiles stored within the subducting oceanic lithosphere play a crucial role in arc volcanism and metamorphism of the overlying mantle wedge. At depths between ~60–80 km, dewatering of subducting oceanic crust largely occurs by metamorphism of the oceanic crust to amphibolite and eclogite facies, which leads to hydration of the mantle wedge [ANCORP Working Group, 1999; Ruepke et al., 2004; Hacker et al., 2003]. At depths of 100–120 km, eclogitization is complete [Hacker et al., 2003]. The subducting lithospheric mantle dehydrates at a elevated temperature which results in partial melting of the overriding mantle, and which generates magmas that buoyantly rise to form the associated island arc [Ulmer and Trommsdorff, 1995; Ruepke et al., 2004]. Thus, the amount of water subducted dictates the generation of arc magmas, the rheology of the mantle wedge, and the global circulation of water [e.g., Hacker, 2008].</p>
<h3>側邊列</h3> <ul style="list-style-type: none">PDF 下載連結文章資訊參考資料圖片瀏覽器	<div><p>intermediate-depth earthquakes in subducting slabs linked to metamorphic dehydration reactions? <i>J. Geophys. Res.</i>, 108(B1), 2030, doi:10.1029/2001JB001129.</p><p>CrossRef</p><p>CAS</p><p>Web of Science® Times Cited: 170</p><p>ADS</p><p>Wiley Online Library</p></div> <p>Hamilton, E. L. (1978), Sound velocity-density</p> <h3>1. Introduction</h3> <p>[2] The amount of volatiles stored within the subducting oceanic lithosphere play a crucial role in arc volcanism and metamorphism of the overlying mantle wedge. At depths between ~60–80 km, dewatering of subducting oceanic crust largely occurs by metamorphism of the oceanic crust to amphibolite and eclogite facies, which leads to hydration of the mantle wedge [ANCORP Working Group, 1999; Ruepke et al., 2004; Hacker et al., 2003]. At depths of 100–120 km, eclogitization is complete [Hacker et al., 2003]. The subducting lithospheric mantle dehydrates at a elevated temperature which results in partial melting of the overriding mantle, and which generates magmas that buoyantly rise to form the associated island arc [Ulmer and Trommsdorff, 1995; Ruepke et al., 2004]. Thus, the amount of water subducted dictates the generation of arc magmas, the rheology of the mantle wedge, and the global circulation of water [e.g., Hacker, 2008].</p>

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Figure 9

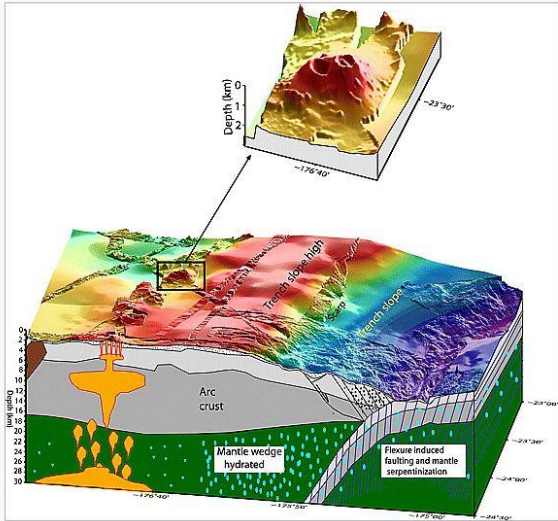


Figure 9.

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Summarized interpretation of the tomographic velocity model (Figure 4c). The highly hydrated Pacific plate subducts beneath the Indo-Australian plate at the Tonga Trench, with melt rising from the subducting slab to form the volcanic Tonga Ridge (the active Tonga arc). Dehydration reactions in the subducting crust promote mantle wedge hydration. The arc crust at the tip of the Indo-Australian plate is highly fractured by tectonic erosion. The outer fore-arc is affected by extension, where a huge scarp of 2 km offset has been formed trenchward of the trench slope high.

6.1. The Trench-Outer Rise Region

[32] In the trench-outer rise region, uppermost crustal velocities are lower than 3.5 km/s, and are

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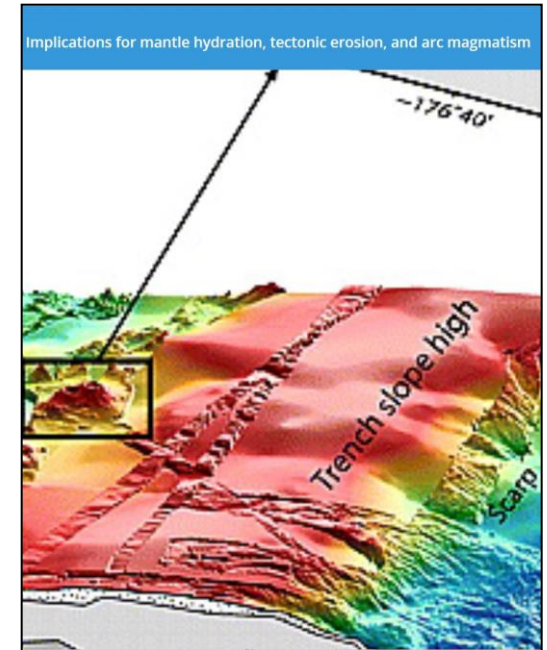
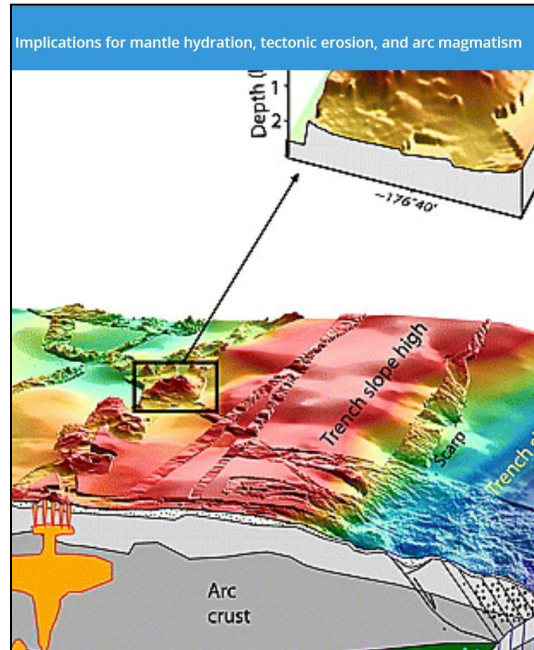
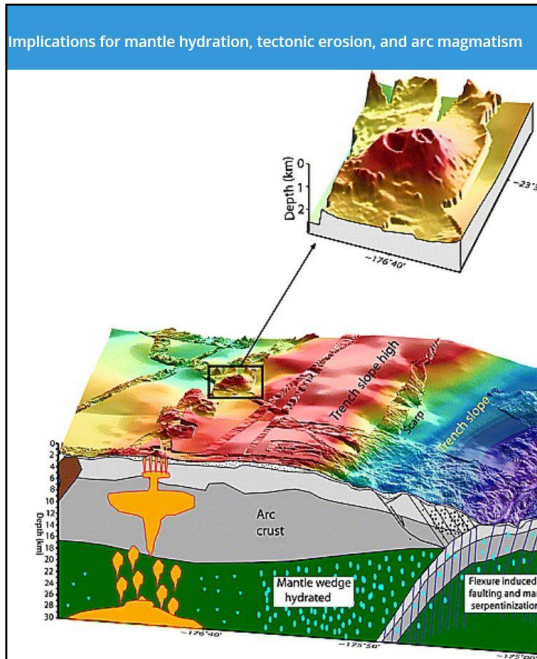
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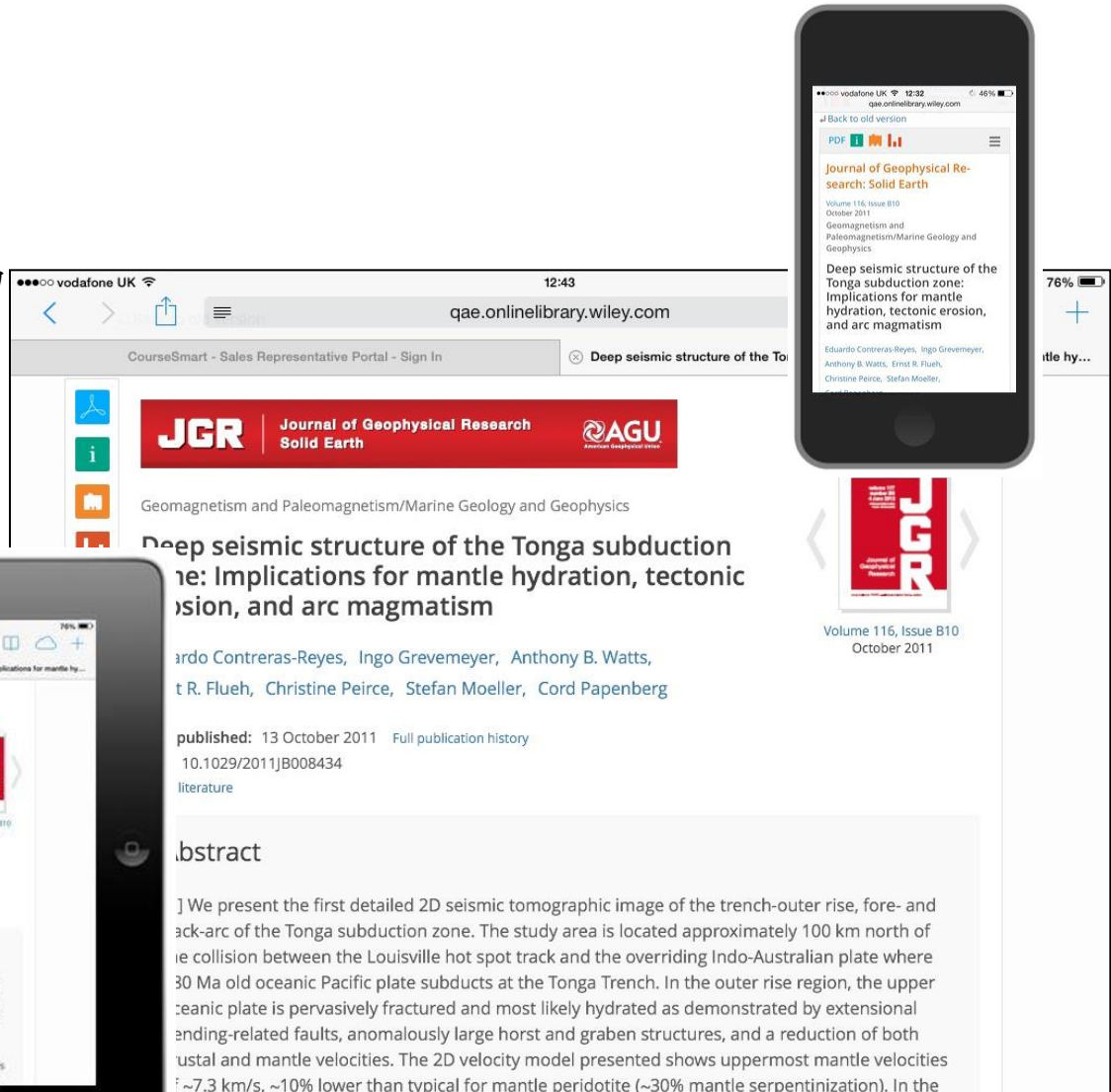
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Pamela M. Murray-Tuite^{1,*}, Xiang Fei²

Article first published online: 17 FEB 2010
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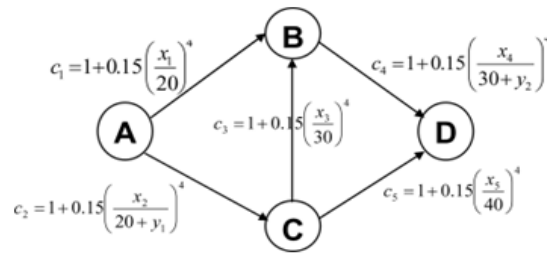
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MIN CHEN, SHU-CHING CHEN, and MEI-LING SHYU

3.1 INTRODUCTION

Researches in video retrieval are motivated by the proliferation of video data and growing requests for video applications ranging from communication and education to entertainment. Currently, most commercial video search engines such as Google Video Search,¹ YouTube,² and Blinkx Video Search³ are equipped with text-based search technology, where information retrieval (IR) is conducted based solely on a filename and/or text metadata in the form of closed captions or transcribed speech [1] for video retrieval. In some cases, such approaches provide reasonable results because presumably the texts reflect video semantic meanings and IR has a long successful history on text document retrieval. However, it is quite often that the visual content of user interests is neither described nor properly reflected in the associated text or speech, not to mention that automatic speech recognition is so much harder to achieve for the videos with non-English languages, which adversely affect the effectiveness of text-based approaches.

Alternatively, content-based video retrieval (CBVR) aims to complement text-based retrieval using audiovisual features, either low-level features such as color, texture, and shape or high-level semantic features (or called concepts) such as people, objects, events, and settings. In contrast to content-based image retrieval (CBIR), which has been widely studied since last decade, CBVR is a relatively new and underresearched topic. Though at first glance it may appear to be a natural extension of CBIR, CBVR has many unique characteristics, as will be discussed in next section, which make it both

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Min Chen, Shu-ching Chen, Mei-ling Shyu

Published Online: 20 JUL 2010

DOI: 10.1002/9780470588222.ch3

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John F. Thompson, Kathleen E. Steinmann


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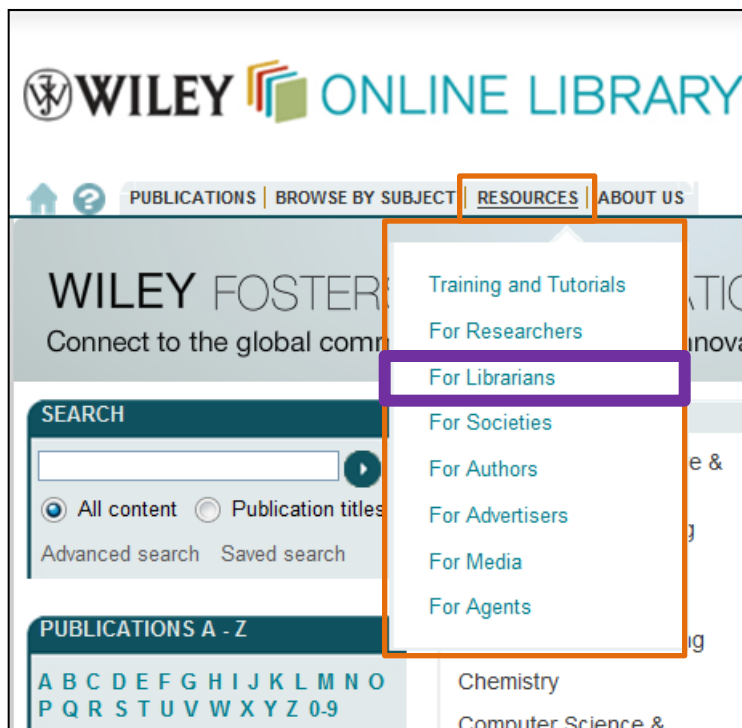
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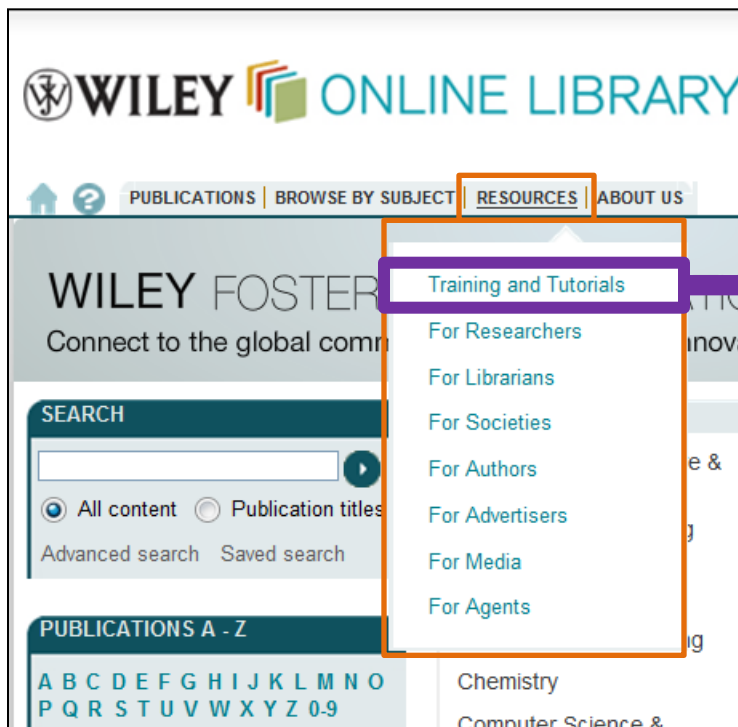
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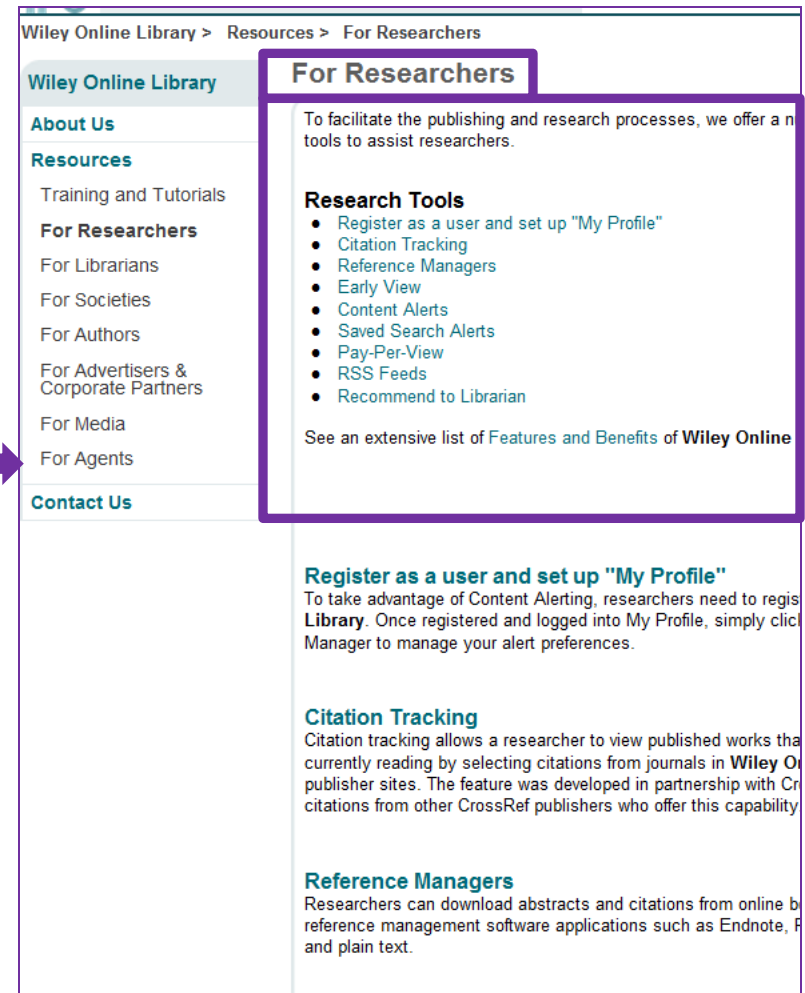
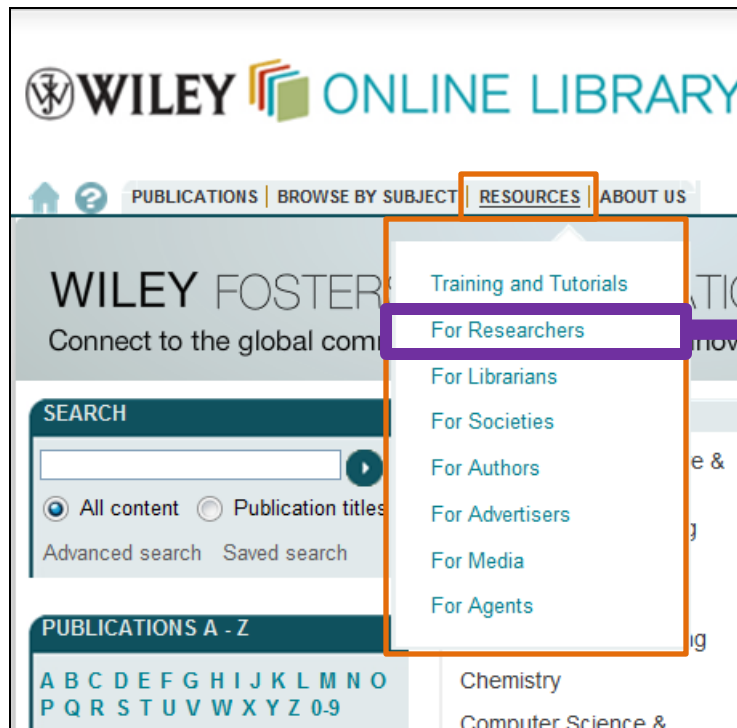


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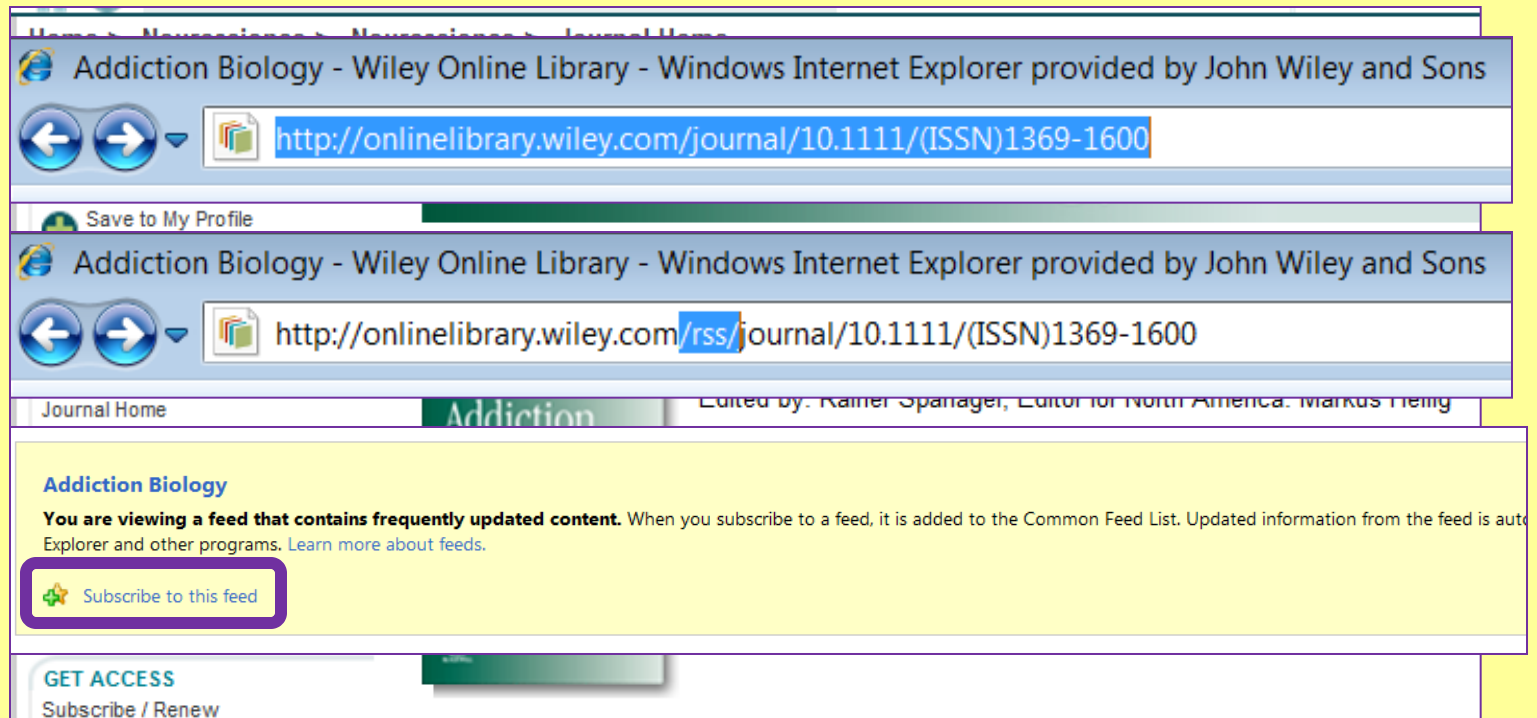
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As of 06 December 2013, we have updated our WAYFless URLs to incorporate the Entity ID, reduce the number of required parameters, and generally align with current industry practice for WAYFless URLs. This new syntax reduces the potential for errors in the construction of the URLs, and is a much more reliable service for seamless access to your licensed holdings.

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Report Type: Journals
Start Date: 2013 JanuaryReport: COUNTER Journal Report 1
End Date: 2013 May

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Expand Report Section

Announcements

Welcome to the new Usage Reports interface!

New announcements will appear here in the future.

Links

[View usage reports for Crystallography Journals Online](#)[View historical usage reports \(years 2010 - 2013\) for American Geophysical Union publications.](#) Please note that your previous AGU username and password is required to login. Current usage (2013+) for AGU publications is included in the above Wiley Online Library COUNTER reports.[View historical usage reports from Wiley InterScience](#)Descriptions for the Reports can be found [here](#)**Customers with access to Wiley titles on HighWire, JSTOR, EBSCO and other sites:** Please also obtain separate usage reports for accesses made to Wiley titles through those sites.Subscribe to
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Report Type: Journals
Start Date: 2014 January

Report: COUNTER Journal Report 1
End Date: 2014 February

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Report Type	Report Name	Start Date	End Date	Status	Actions
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Journals	COUNTER Journal Report 1	1 / 2014	2 / 2014	Waiting	XLSX TSV XML

Announcements

Dear Customers, February 2014 usage data are now available.

With kind regards, Wiley Online Library Usage Reporting

Links

The EMBO Press publications are also available on HighWire. Current HighWire usage reports are available [here](#).

Historical usage reports for the EMBO Press Publications are available through Nature Publishing Group [here](#).

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Catherine Tan

Nanyang Technological University Libraries

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Tags: Asia, librarian best practice, social media, usage

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Emily Gillingham

Director of Library Relations

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Rick Anderson

Interim Dean, J. Willard Marriott Library, University of Utah

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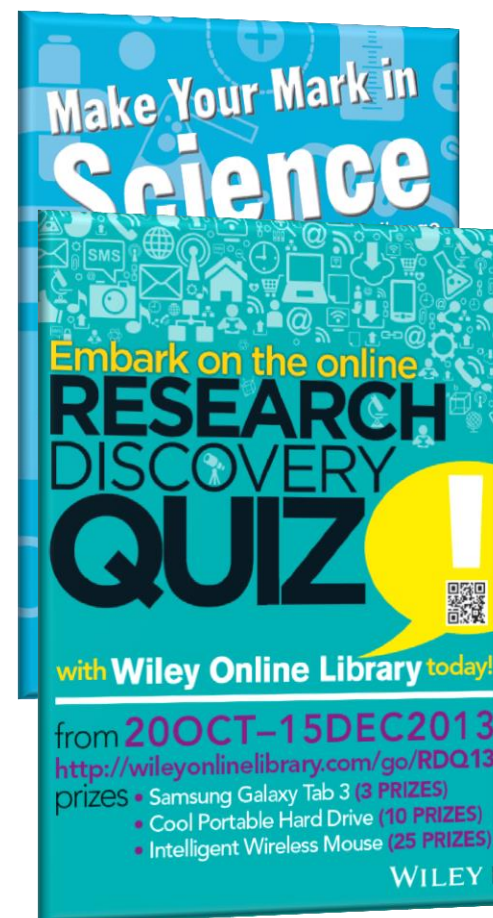


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