

Taylor & Francis Group
Journals

Taylor & Francis Online 平台使用介紹



Taylor & Francis 台灣辦事處
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www.tandfonline.com

主要內容

- ✚公司簡介暨CONCERT合輯說明
- ✚管理者介面
- ✚特色功能與更新
- ✚使用者介面
- ✚行動閱讀(待更新)
- ✚其他服務

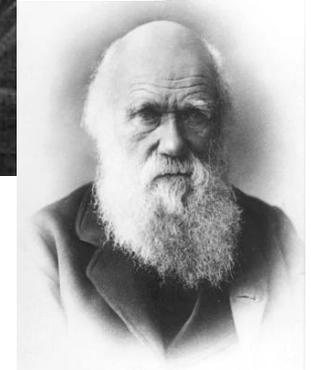
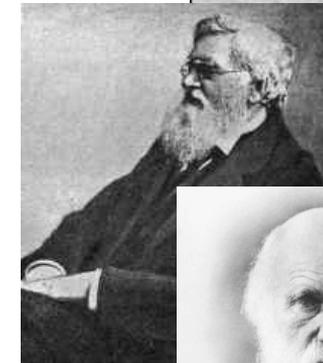


<http://service.flysheet.com.tw/online/T&F/>

Taylor & Francis

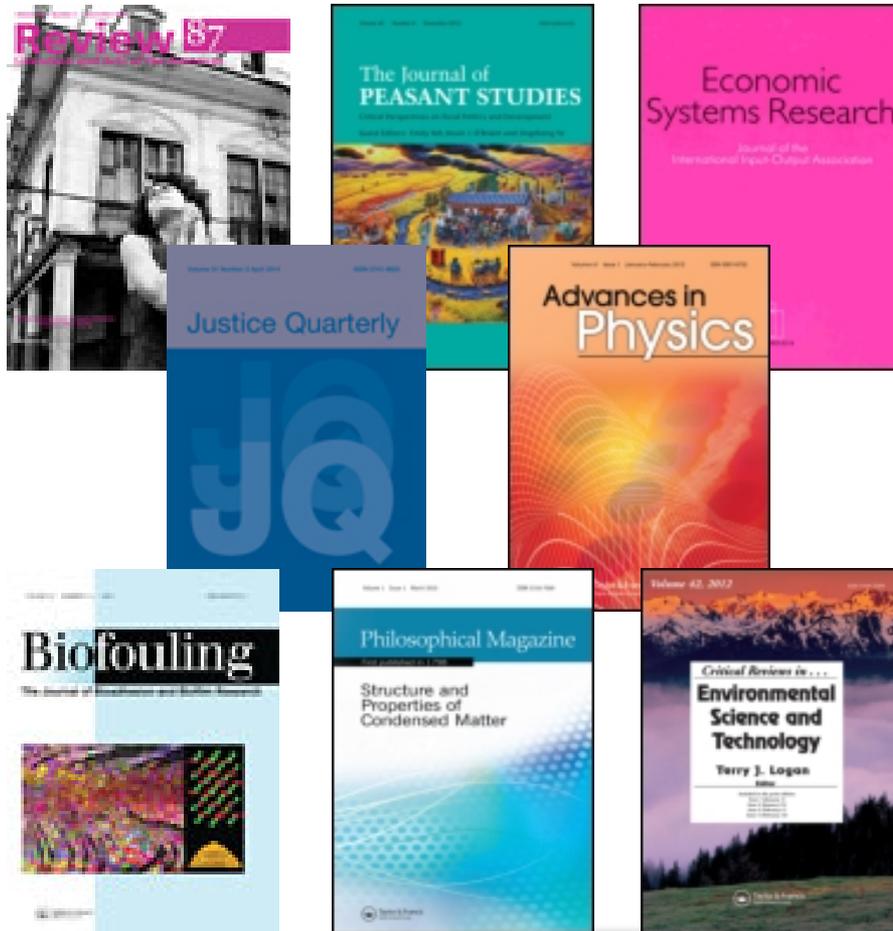
公司簡介

- 創建於**1798年**，出版**1800餘種學術期刊**
 - 第一家發行商業學術期刊的出版社
 - 全球最大的人文社會科學出版社
 - **65%**的科技類期刊被**SCI**收錄
 - **1800+**期刊
- **合作夥伴** – 與**460家學協會和大學**合作；**2013年**新增**100種期刊**並有**54家**新的學協會加入
- **全球網路** – **20家**代表處遍佈全球各大洲：台北、北京、新加坡、東京、牛津、費城、墨爾本
- **旗下品牌：**



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期刊訂購方式



期刊單刊訂閱

- 現刊訂閱
- 現刊+回溯訂閱

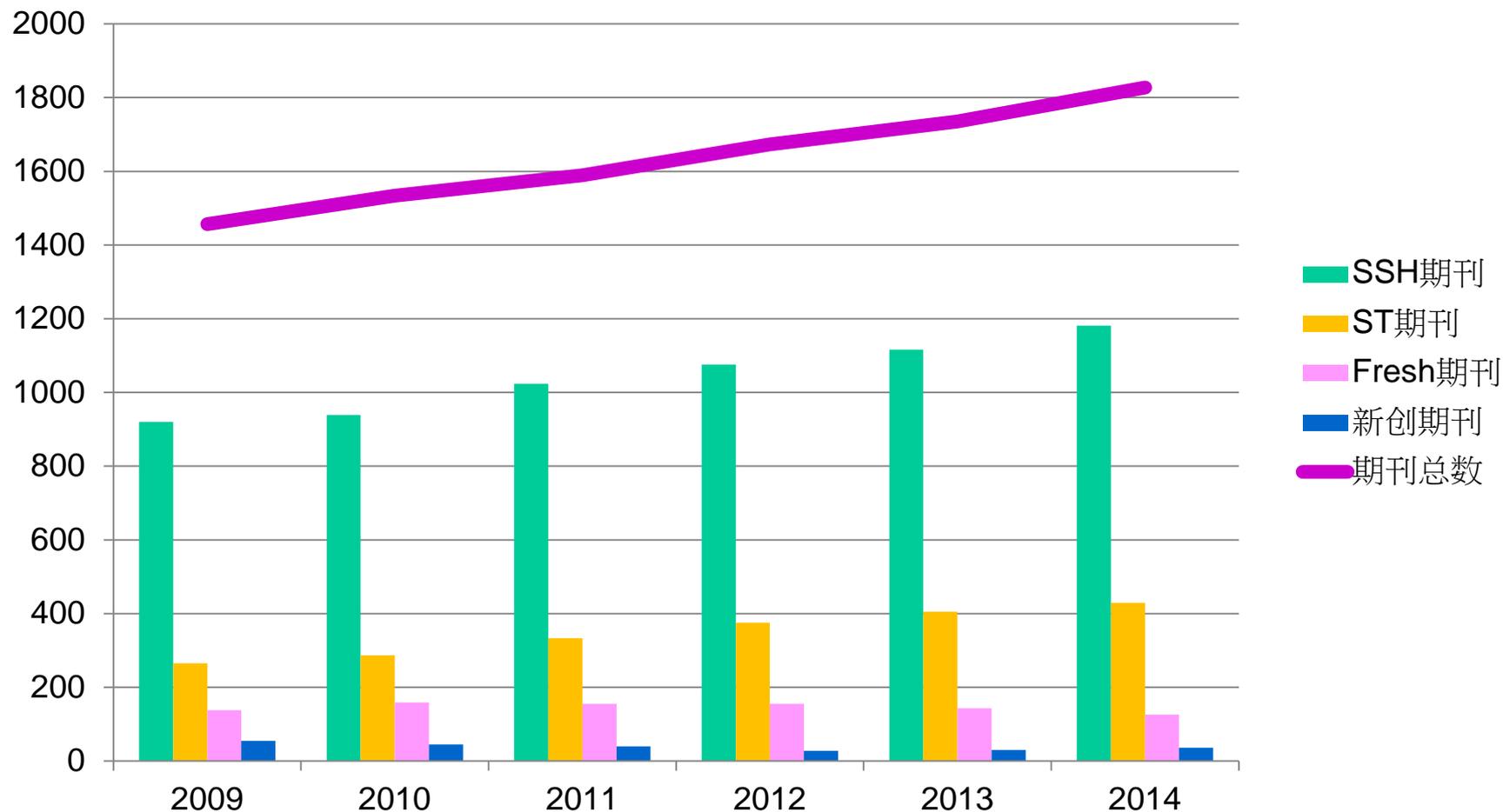
期刊 Package 訂閱

- SSH Package (現刊/回溯)
- ST Package (現刊/回溯)
- Fresh
- 新刊資料庫

- 現刊內容最早回溯至1997年

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期刊數量總體增長情況



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現刊-人文社會科學期刊合輯

Taylor & Francis SSH期刊合輯

14種學科，1180餘種人文社科類期刊：

學科	數量	學科	數量
人類學與考古學	16	圖書館與資訊科學	41
藝術與人文	168	媒體、文化與傳播研究	76
行為科學	165	政治、國際關係與區域研究	138
商務、管理與經濟	98	公共衛生與社會保健	76
犯罪學與法學	25	社會學及其相關學科	34
教育學	191	體育、休閒與旅遊	44
地理、規劃、城市與環境	72	戰略、防禦與安全研究	38

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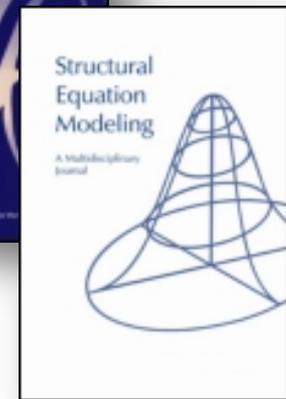
現刊-人文社會科學期刊合輯

期刊文章數量全球排名第一	藝術與人文、教育學、地理與規劃
期刊數量全球排名第一	區域研究、社會學、心理學
影響因數排名第一	民族學研究、傳播學、倫理學、歷史與科學哲學、社會問題、社會科學及生物醫學、種族研究
6個學科中被收錄的人文期刊數量排名前三，其餘學科排名皆前五	第一：教育學 第二：政治、國際關係和區域研究 第三：經濟、地理、城市規劃與環境、人文、心理學

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SSH期刊合輯-學科介紹

行為科學：著名出版品牌-  Psychology Press
Taylor & Francis Group
心理學、社會心理學、發展與教育心理學、運動心理學、心理分析、心理諮詢與心理治療、藝術治療、殘疾與康復等等



教育學：人文科學資料庫中最大的學科
藝術教育、教育研究、教育科學、多元文化教育、特殊教育、教師教育、教育政策與管理

Taylor & Francis

SSH期刊合輯-特色學科

圖書館與資訊科學： 從Elsevier最新收購

- Library Collections, Acquisitions, and Technical Services 《圖書館館藏、採訪與技術服務》
- Serials Review 《期刊評論》
- The International Information & Library Review 《國際資訊與圖書館評論》



戰略、防禦與安全研究：

區域研究、衝突、安全與戰略研究、
政治、國際關係

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現刊-科學技術期刊合輯

Taylor & Francis ST期刊資料庫

5種學科分類，400餘種科技類期刊；

學科	數量
化學	46
工程、計算與技術	132
農業與環境科學	172
數學與統計學	49
物理學	28

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科技期刊合輯



Taylor & Francis 科技期刊合輯

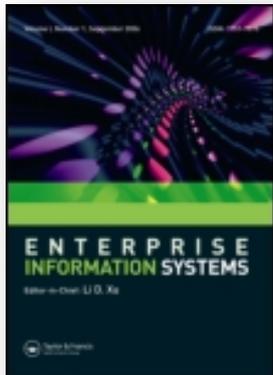
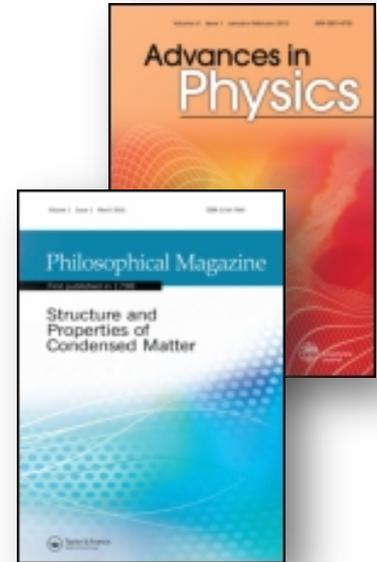
- 400餘種期刊；
- 內容最早回溯至1997年
- 5個學科領域
工程與資訊、數學與統計學、
物理學、化學、環境與農業科學
- 80%的期刊被SCI收錄

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ST期刊合輯-重點期刊

Advances In Physics 《物理學進展》
68種凝聚態物理學期刊中排名第二
2012年影響指數：34.294

Philosophical Magazine 《哲學雜誌》
最早商業發行的學術期刊

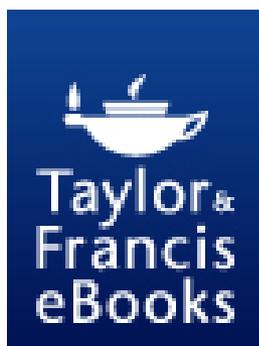


Enterprise Information Systems 《企業資訊系統》
132種電腦科學資訊系統期刊中排名第一
2012年影響指數：9.256

Taylor & Francis

其他電子產品

- 電子書



- 其他線上參考資源

TFO 管理者介面

Taylor & Francis Online

嶄新平台·嶄新服務

Taylor & Francis Online

平台特點



- 簡潔、直觀的使用者介面
- 查找期刊和參考資料更為便利
- 隨時隨地查看我們的內容 ---- 盡享Blackberry、iPhone和Android應用程式查閱新知！
- 提供多元化功能，圖書館管理員可享用管理認證、使用統計和連結等功能
- <http://resources.tandfonline.com/>



管理者功能頁面

功能
導航



My account	Institutional account
Personal details	Access entitlements Access your subscription information here. Manage access entitlements 機構館藏
Addresses	Usage reports Download your usage reports here. Manage usage data 統計報告
Access entitlements	IP ranges Provide authenticated access to Taylor & Francis content to your users. Manage IP ranges IP維護
Redeem voucher	Shibboleth Authenticate user access here. View Shibboleth 查看Shibboleth
New content and citation alerts	Link resolver Add your link resolver details and logo. Manage link resolver 連結解析器
Publication and article shortlist	Trusted proxy Manage online access via a trusted proxy server. Manage trusted proxy setu 代理伺服器
Saved searches	Administrators Add/delete administrators for your institutional account here. Manage administrators 管理者
Institutional account	Co-branding Customize Taylor & Francis Online with your logo. Manage banner branding 機構名稱
Access entitlements	Billing and shipping addresses Verify your billing and shipping details here. Manage addresses 地址維護
Usage reports	Holdings Find out which journals are published by the Taylor & Francis Group. Manage holdings file T&F 期刊資訊
IP Ranges	
Shibboleth	
Link resolver preferences	
Trusted proxy server setup	
Manage administrators	
Co-branding	
Addresses	
Holdings file	

機構館藏

Home > My Account > Institutional account > Access entitlements

My account

Personal details

Addresses

Access entitlements

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From this page you can view the products to which your institution subscribes.

You can also download this information as a tab-separated file (.tsv), or in MARC-record format by following the links at the bottom of this page.

Search for Publication title

Sort By: Publication title

Publication title	ISSN/ISBN	Coverage	Access period
Accountability in Research	0898-9621	1 Jan 2011 - 31 Dec 2011	Permanent
		1 Jan 2006 - 31 Dec	Permanent

You can download this information as a **tab separated text file** via this link for integration into cataloguing systems.

The information is also available as a set of MARC records. The record set contains a MARC 21 record for each subscribed journal or reference work.

All journals
 Subscribed journals
 All reference works
 Subscribed reference works

Download

可下載期刊MARC

1 Jan 2009 - 31 Dec 2009	Permanent
1 Jan 2010 - 31 Dec 2010	Permanent

匯出使用統計報告 |



E-mail notifications

- E-mail when COUNTER usage data for the current month has been processed and is ready for reporting.

[Update settings](#)

← 可定期寄送使用統計通知

匯出使用統計報告 II

By year

Select Usage Month Range:

From:

To:

← 選擇需要的報告年份和報告類型

Report type

- Select all reports**
- Journal Report 1 (Number of Successful Full-Text Article Requests by Month and Journal)
- Journal Report 1 GOA (Number of Successful Gold Open Access Full-Text Article Requests by Month and Journal)
- Journal Report 1a (Number of Successful Full-Text Article Requests from an Archive by Month and Journal)
- Journal Report 2 (Access Denied to Full-Text Articles by Month, Journal and Category)
- Journal Report 3 (Number of Successful Item Requests by Month, Journal and Page Type)
- Journal Report 3 Mobile (Number of Successful Item Requests by Month, Journal and Page Type for usage on a Mobile Device)
- Journal Report 5 (Number of Successful Full-Text Article Requests by Year-of-Publication (YOP) and Journal)
- Platform Report 1 (Total Searches, Result Clicks and Record Views by Month and Platform)
- Database Report 1 (Total Searches, Result Clicks and Record Views by Month and Database)
- Database Report 2 (Access Denied by Month, Database and Category)
- Book Report 2 (Number of Successful Section Requests by Month and Title)
- Book Report 3 (Access Denied to Content Items by Month, Title and Category)
- Title Report 1 (Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title)
- Title Report 1 Mobile (Number of Successful Requests for Journal Full-Text Articles and Book Sections by Month and Title (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices))
- Title Report 2 (Access Denied to Full-Text Items by Month, Title and Category)
- Title Report 3 (Number of Successful Item Requests by Month, Title and Page Type)
- Title Report 3 Mobile (Number of Successful Item Requests by Month, Title and Page Type (formatted for normal browsers/delivered to mobile devices AND formatted for mobile devices/delivered to mobile devices))

← 選擇需要的報告格式

Format type

- XML
- HTML
- Tab-delimited text

Recipients

-
- All administrators of this organisation

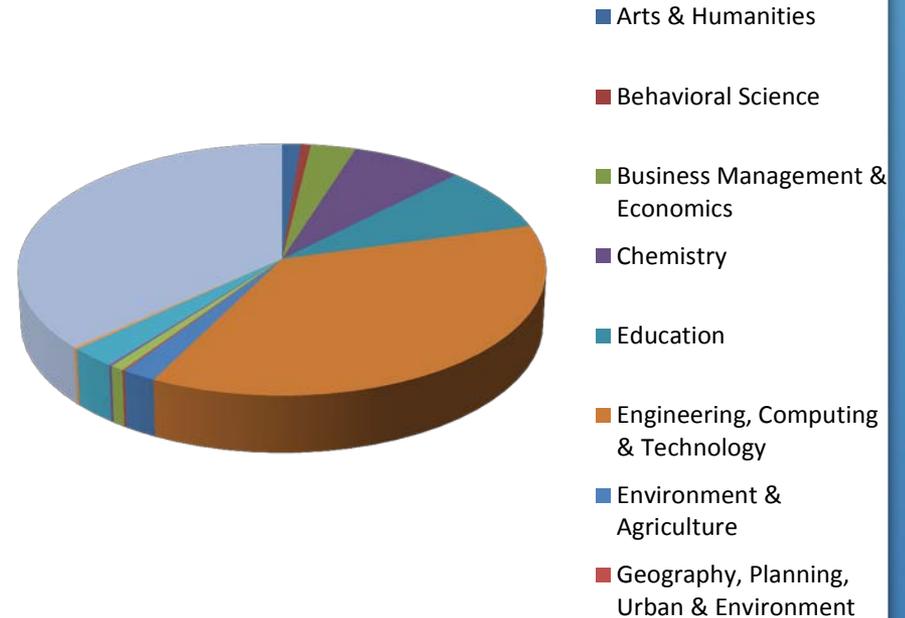
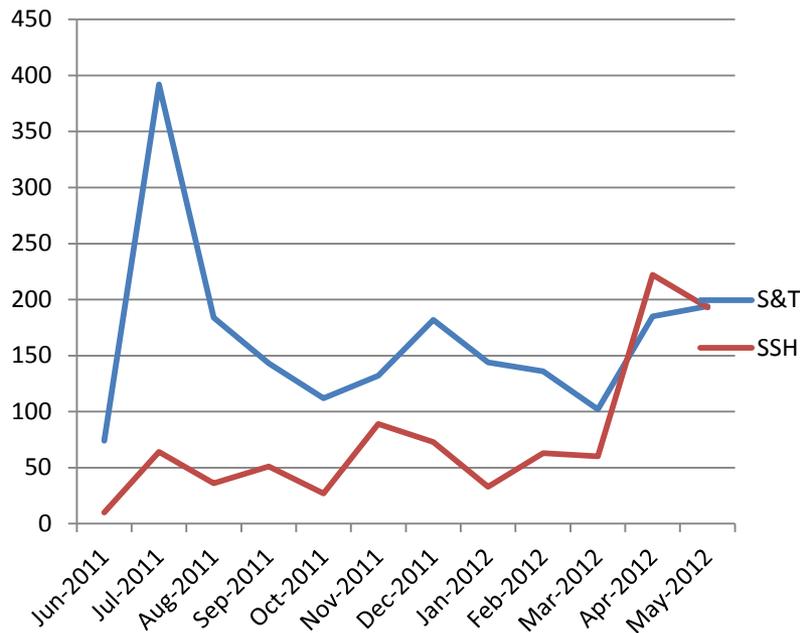
← 默認管理者email或輸入其他email地址

使用統計報告

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Journal Report 1 (R3)	Number of Successful Full-Text Article Requests by Month and Journal													
2	National XXXXXXXX University														
3	Date run:														
4	14/08/2012														
5		Publisher	Platform	ISSN	Online ISS	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	YTD Total	YTD HTML	YTD PDF
6	Total for all journals		Taylor & Francis			1139	1266	1521	1692	1704	1457	1434	10213	934	9279
7	The Academy of Management	Routledge	Taylor & F	1941-6520	1941-6067	0	3	3	3	0	0	0	9	0	9
8	Accountability in Research	Taylor & Francis	Taylor & F	0898-9621	1545-5815	0	0	0	0	1	0	0	1	0	1
9	Accounting and Business Rese	Routledge	Taylor & F	0001-4788	2159-4260	1	3	2	0	0	0	0	6	1	5
10	Accounting Education	Routledge	Taylor & F	0963-9284	1468-4489	0	0	0	0	1	0	0	1	0	1
11	Accounting History Review	Routledge	Taylor & F	2155-2851	2155-286X	0	0	1	0	0	0	0	1	0	1
12	Accounting in Europe	Routledge	Taylor & F	1744-9480	1744-9499	0	0	0	0	0	1	0	1	0	1
13	Acta Agriculturae Scandinavica	Taylor & Francis	Taylor & F	0001-5121		0	0	0	0	0	0	0	0	0	0
14	Acta Agriculturae Scandinavica	Taylor & Francis	Taylor & F	0906-4702	1651-1972	6	5	22	5	6	1	7	52	14	38
15	Acta Agriculturae Scandinavica	Taylor & Francis	Taylor & F	0906-4710	1651-1913	7	6	9	1	7	0	6	36	9	27
16	Acta Borealia	Routledge	Taylor & F	0800-3831	1503-111X	0	0	0	0	0	0	0	0	0	0
17	Acta Botanica Gallica	Taylor & Francis	Taylor & F	1253-8078	2166-3408	0	0	0	0	0	0	0	0	0	0
18	Acta Linguistica Hafniensia	Routledge	Taylor & F	0374-0463	1949-0763	1	0	0	0	0	0	0	1	0	1
19	Action in Teacher Education	Routledge	Taylor & F	0162-6620	2158-6098	0	0	0	0	2	0	0	2	0	2
20	Action Learning: Research and	Routledge	Taylor & F	1476-7333	1476-7341	0	0	0	0	0	0	0	0	0	0
21	Activities, Adaptation & Aging	Routledge	Taylor & F	0192-4788	1544-4368	0	1	0	0	1	0	0	2	0	2
22	Addiction Biology	Taylor & Francis	Taylor & Francis			0	0	0	0	0	0	0	0	0	0
23	Adelphi Series	Routledge	Taylor & F	1944-5571	1944-558X	0	0	0	2	1	8	0	11	0	11
24	Administration in Social Work	Routledge	Taylor & F	0364-3107	1544-4376	2	1	0	0	1	0	0	4	0	4
25	Adoption Quarterly	Routledge	Taylor & F	1092-6755	1544-452X	0	0	0	0	0	0	0	0	0	0
26	Advanced Composite Materia	Taylor & Francis	Taylor & F	0924-3046	1568-5519	0	0	0	0	1	0	0	1	0	1
27	Advanced Robotics	Taylor & Francis	Taylor & F	0169-1864	1568-5535	0	0	0	0	1	1	1	3	0	3
28	Advances in Building Energy R	Taylor & Francis	Taylor & F	1751-2549	1756-2201	0	0	0	0	0	0	0	0	0	0
29	Advances in Eating Disorders	Routledge	Taylor & F	2166-2630	2166-2649	0	0	0	0	0	0	0	0	0	0
30	Advances in Oceanography an	Taylor & Francis	Taylor & F	1947-5721	1947-573X	0	0	0	0	0	0	0	0	0	0
31	Advances in Physics	Taylor & Francis	Taylor & F	0001-8732	1460-6976	3	0	1	0	0	3	9	16	3	13
32	Advances in School Mental He	Routledge	Taylor & F	1754-730X	2049-8535	0	0	0	0	0	0	0	0	0	0

使用分析圖表

Usage by Subject



期刊採購建議

T&F Journal long description	2010 IF	Cost per download	Titles	Sum of Access	2010 IF
Innovations in Education & Teaching International	0.644	11	International Journal of Production Research	295	1.033
Journal of Thermal Stresses	0.946	11	Molecular Crystals and Liquid Crystals	190	0.543
IIE Transactions Online	1.186	13	Journal of the Chinese Institute of Engineers	144	0.225
The Journal of Experimental Education	1.633	17	International Journal of Ambient Energy	122	N
Production Planning & Control(on-Line)	0.603	17	Maritime Affairs: Journal of the National Maritime Foundation of India	115	N
Journal of Occupational & Environmental Hygiene Online	1.293	20	Synthetic Communications	103	0.937
Quality Engineering Online		23	International Journal of Systems Science	95	0.948
Computer Assisted Language Learning	0.9	24	Polymer-Plastics Technology and Engineering	95	0.557
Studies in Science Education	1.267	26	Total Quality Management & Business Excellence	91	0.387
Journal of Language, Identity & Education Online	0.412	29	Materials and Manufacturing Processes	87	0.802
Vehicle System Dynamics	0.752	29	Ergonomics	84	1.377
The Engineering Economist Online	Due in 2013 JCR	30	Journal of Dispersion Science and Technology	84	0.628
Educational Research	0.898	32	Journal of Modern Optics	77	0.988
Journal of Education for Business		37	Catalysis Reviews	73	7
Behaviour & Information Technology Online	0.835	48	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	72	0.843
International Journal of Electronics	0.257	51	Structure and Infrastructure Engineering	71	0.592
Separation Science and Technology	1.015	52	Environmental Technology	68	N
International Journal of Human-Computer Interaction Online	0.681	56	Interactive Learning Environments	65	0.707
Electric Power Components & Systems	0.577	58	Journal of the Chinese Institute of Industrial Engineers	61	N

管理IP位址

- Addresses
- Access entitlements
- Redeem voucher
- New content and citation alerts
- Publication and article shortlist
- Saved searches
- Institutional account
- Access entitlements
- Usage reports
- IP Ranges**
- Co-branding
- Addresses
- Holdings file

For your information, the IP address of your current internet connection is: 222.128.10.193

Add new IP range(s)

Description

IP ranges

Examples: 128.23.12. or 132.10.30-40.* or 112.12.11.15:112.12.12.36*

Update existing IP range(s)

Description	IP range
<input type="checkbox"/> <input type="text"/>	124.016.154.001-124.016.154.254
<input type="checkbox"/> <input type="text"/>	124.016.155.001-124.016.155.127
<input type="checkbox"/> <input type="text"/>	159.226.018.002-159.226.018.019
<input type="checkbox"/> <input type="text"/>	159.226.034.000-159.226.034.254
<input type="checkbox"/> IP	124.016.134.194-124.016.134.213
<input type="checkbox"/> Institute of Geochemistry	159.226.151.001-159.226.151.254
<input type="checkbox"/> Institute of Geochemistry	222.085.179.101-222.085.179.102
<input type="checkbox"/> Institute of Information Engine	159.226.94.1:159.226.94.255
<input type="checkbox"/> Institute of Information Engine	159.226.95.1:159.226.95.255
<input type="checkbox"/> Institute of Oceanology	124.016.242.000-124.016.242.255
<input type="checkbox"/> Institute of Oceanology	159.226.158.000-159.226.158.255
<input type="checkbox"/> Institute of Oceanology	210.072.156.000-210.072.158.255
<input type="checkbox"/> Kunming Institute of Zoology	159.226.149.000-159.226.149.255

Ignore conflicts

在這裡填寫IP段說明，比如某系所

填寫新IP地址

勾選需要維護的IP段

點擊更新或刪除按鈕



管理者帳戶

Home > My Account > Institutional account > Manage administrators

My account

Personal details

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Shibboleth

Link resolver preferences

Trusted proxy server setup

Manage administrators

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Addresses

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Administrators

You are managing National Science Library

Add an administrator

填寫新增管理者的電子郵件

Adding an administrator will provide them with full administration rights to this organisation account

Email address

A confirmation email is sent to this address containing a validation link to activate the account

Add administrator

Delete an administrator

刪除一個機構管理者帳號

Yan Zhao (zhaoyan@mail.las.ac.cn)

Email me email addresses for my records.

Recommended to your librarian

Current Contact: <None>

Assign new contact

Email address:

Add new contact

歡迎頁面

- My account
- Personal details
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- Addresses
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Co-branding

You are managing National Science Library

Update banner text

Current text: *National Science Library*

New banner text

Update banner text

← 填寫機構英文名稱，該名稱將出現在TFO的LOGO旁邊

Update institution logo

The uploaded image type should be JPEG, GIF or PNG and the size should be the maximum size of 250 x 40 pixels.

Banner image file 浏览...

Upload institution logo

← 上傳機構的LOGO，該LOGO也將出現在相同位置



Link Resolver 設定

Home > My Account > Institutional account >

My account

Personal details

Addresses

Access entitlements

Redeem voucher

New content and citation alerts

Publication and article shortlist

Saved searches

Institutional account

Link resolver

Base URL:

Current Open URL

Upload Open URL

Update

Disable

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2. Batista, T., P. Mendes, and L. Carvalho. 2010. The third dimension in landscape metrics analysis applied to central Alentejo - Portugal. Proceedings of the IUFRO Landscape Ecology Working Group International Conference, Sept. 21-27 2010, IUFRO, Bragança: Portugal, 462-7. [Open URL](#)
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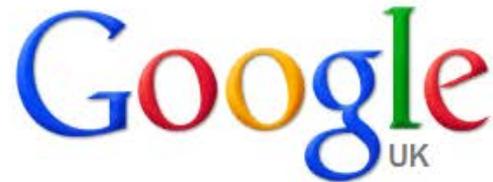
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Volume 12, Issue 5, 2012



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 Stefan Thurner^{abc*}, J. Dooyne Farmer^b & John Geanakoplos^{bcc}
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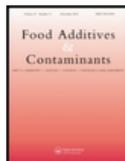
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Sally Wyatt, Jess Bier, Anna Harris & Bas van Heur
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The decentralized participatory architecture of the Internet challenges traditional knowledge authorities and hierarchies. Questions arise about whether lay inclusion helps to 'democratize' knowledge formation or if existing hierarchies are re-enacted online. This article focuses on Wikipedia, a much-celebrated example which gives an in-depth picture of the process of knowledge production in an open environment. Drawing on insights from the sociology of knowledge, Wikipedia's talk pages are conceptualized as an arena where reality is socially constructed. Using grounded theory, this article examines the entry for the September 11 attacks and its related talk pages in the German Wikipedia. Numerous alternative interpretations (labeled as 'conspiracy theories') that fundamentally contradict the account of established knowledge authorities regarding this event have emerged. On the talk pages, these views collide, thereby serving as a useful case study to examine the role of experts and lay participants in the process of knowledge construction on Wikipedia. The study asks how the parties negotiate 'what actually happened' and which knowledges should be represented in the Wikipedia entry. The conflicting points of view overload the discursive capacity of the contributors. The community reacts by marginalizing opposing knowledge and protecting or immunizing the article against these disparate views. This is achieved by rigorously excluding knowledge which is not verified by external expert authorities. Therefore, in this case, lay participation did not lead to a 'democratization' of knowledge production, but rather re-enacted established hierarchies.



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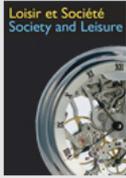
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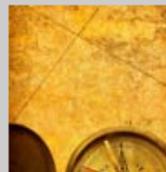
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Oscillations and Time Trends in Stratospheric Ozone Levels

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Oscillations and Time Trends in Stratospheric Ozone Levels: A Functional Data Analysis Approach

Wendy MEIRING

A functional data analysis approach is presented to study altitude-dependent patterns of ozone variation in data from a sequence of ozonesonde flights. Ozonesondes are balloon-based instruments that measure ozone as the balloon ascends through the troposphere and lower stratosphere. This article concentrates on variation in the altitude range of 15.5–30.5 km, in January–July in 1967–1998. Ozonesonde flights originating at a mid-latitude site, Hohenpeissenberg, in Germany, are studied. Estimates are obtained of altitude-dependent nonlinear time trends in ozone partial pressures, together with ozone variation associated with the quasi-biennial oscillation (QBO), an atmospheric process thought to influence global ozone transport. Both methodological and scientific contributions are made. The data analysis approach combines dimension-reduction basis function approximations with low-dimensional spline-based models on the basis function coefficients. This provides an efficient and flexible approach for studying complex time/altitude variation in the ozone partial pressure profiles, including nonlinear time trends. In contrast, the standard approach uses multiple linear regression models to estimate linear or piecewise-linear ozone time trends separately for each altitude level. Scientific results include identifying clear bimodalities (in altitude) in the estimated QBO components of variation in certain months. These may relate to planetary wave transport of ozone from the tropics to mid-latitudes. Additional empirical evidence of an 11-year cycle in ozone levels also is provided, possibly linked with a solar cycle. However, ozone peaks at Hohenpeissenberg do not always coincide with the timing of the maxima of the 11-year solar cycle. This may indicate a transport-related lag in ozone maxima at some altitudes. The estimated QBO features are robust to the presence or absence of the data quality "correction factors" commonly used in ozonesonde studies. However, the nonlinear time trend components show greater sensitivity to these.

KEY WORDS: Atmospheric; Dimension reduction; Environmental; Ozone; Principal component; Smoothing spline ANOVA; Trend.

1. INTRODUCTION

Stratospheric ozone shields the surface of the earth from substantial solar ultraviolet radiation in certain wavelengths. The serious impacts of stratospheric ozone depletion in the form of the Antarctic ozone hole motivated research into the chemical and dynamical processes of ozone depletion. This in turn led to anthropogenic emissions regulations, including chlorofluorocarbon restrictions. Although Antarctic ozone depletion gained much media attention, the importance of stratospheric ozone changes was recognized at all latitudes. This led to trend studies to monitor ozone changes over time worldwide (see Solomon 1999; SPARC 1998; Randel et al. 1999; Staehelin, Harris, Appenzeller, and Eberhard 2001). Data sources analyzed included satellites, surface-based instruments, and ozonesondes, balloon-based instruments that measure ozone as the balloon ascends. Multiple linear regression has been the standard approach for estimating ozone time trends, adjusted for certain dynamical and chemical processes that influence ozone levels. Trends are usually modeled as either linear or piecewise linear. For ozonesonde data, these regression models typically have been fitted separately by altitude level.

In contrast, this article develops a functional data analysis approach to simultaneously estimate complex altitude-dependent patterns of ozone variation in ozonesonde data. These patterns include both nonlinear time trends and changes associated with the quasi-biennial oscillation (QBO), a dynamic process

thought to influence global ozone transport that has a variable period of approximately 28 months. Evidence also is investigated of an 11-year cycle in ozone levels, possibly linked to a cycle in solar activity. Both the QBO and solar cycle frequently are included in multiple regression ozone trend studies; however, the estimation of these effects in this article differs from that in prior studies.

A sequence of ozonesonde flights at a mid-latitude site, Hohenpeissenberg in Germany, is analyzed for the period 1967–1998. It is natural to think of these measurements in a functional data analysis context. For a chosen date $t_j, j \in \{1, \dots, T\}$, an ozonesonde flight begins at the surface of the earth. As the balloon carrying the ozonesonde ascends through the troposphere and lower stratosphere, measurements are obtained of the true ozone partial pressure profile $\Phi_j(a)$ as a function of altitude a . Each ozonesonde flight provides measurements of the ozone partial pressure profile at that time point, considered as a curve or function of altitude. A sequence of ozonesonde flights gives a time series of functional observations. This leads to the development of functional data analysis methods to study complex changes over time in the shape of the true ozone partial pressure profiles $\{\Phi_j(a); a \in \mathcal{A}\}$, associated with specific atmospheric processes. The altitude range $\mathcal{A} = [15.5 \text{ km}, 30.5 \text{ km}]$ is studied in January–July.

Several key differences distinguish this article from the multiple regression approach. First, the functional data analysis approach considers all altitudes simultaneously. Second, a hierarchical approach fits low-dimensional spline-based models on coefficients from a dimension-reduction basis function approximation. This provides an efficient and flexible approach for studying complex time/altitude ozone variation, including

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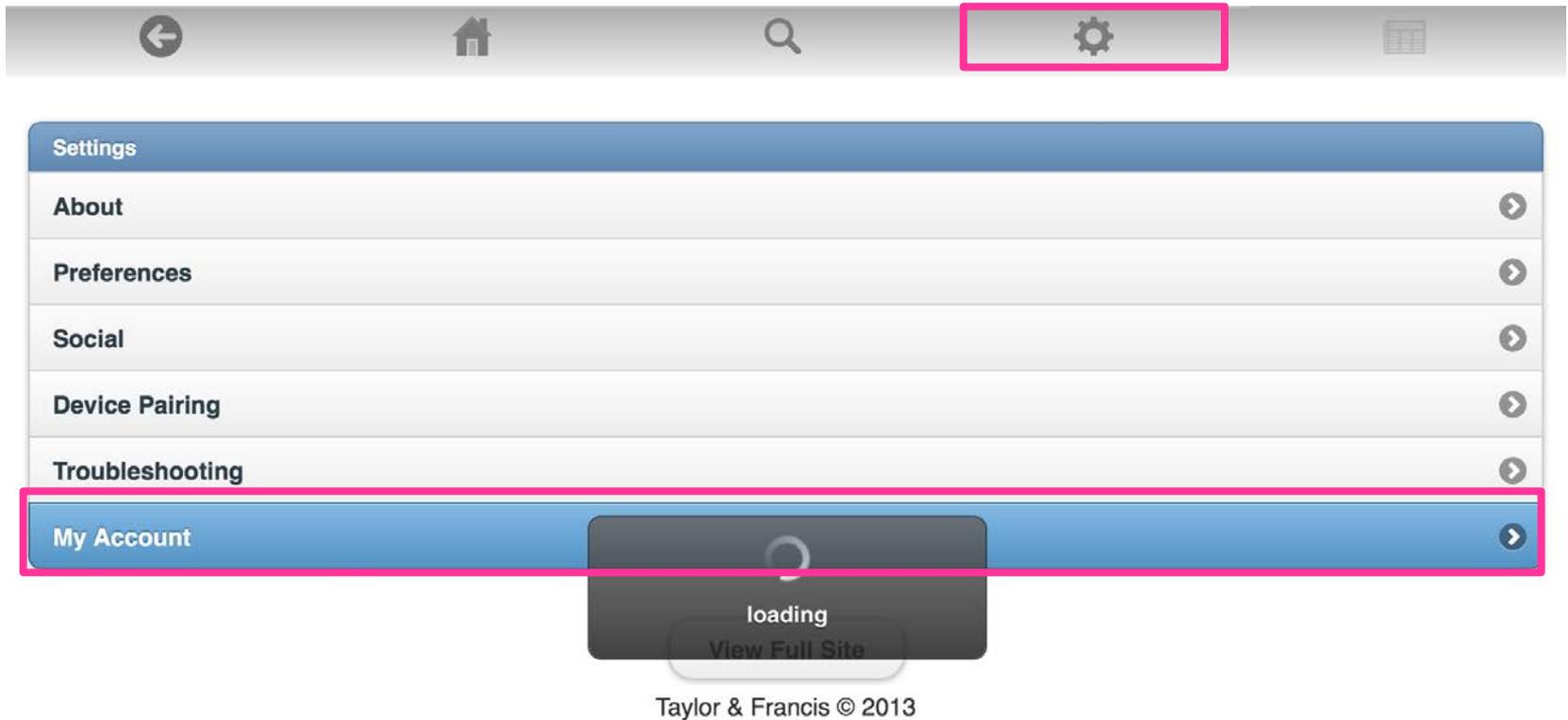
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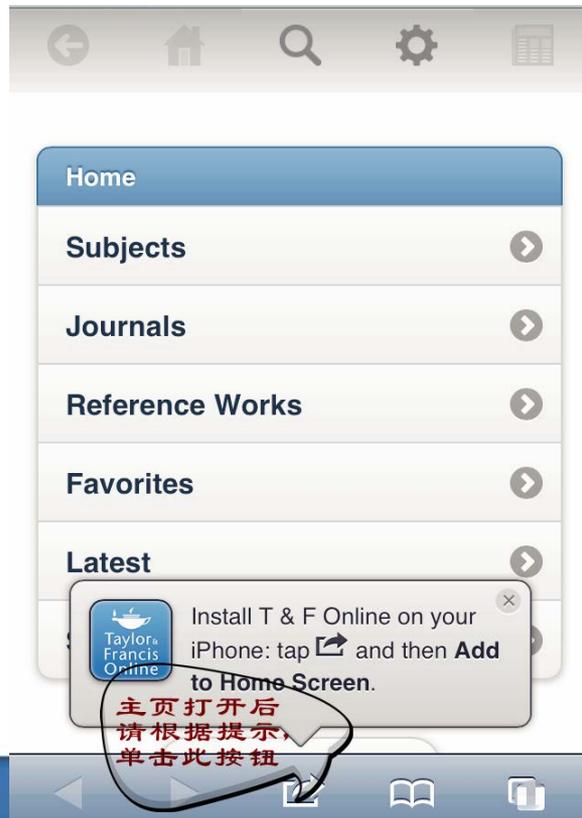
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