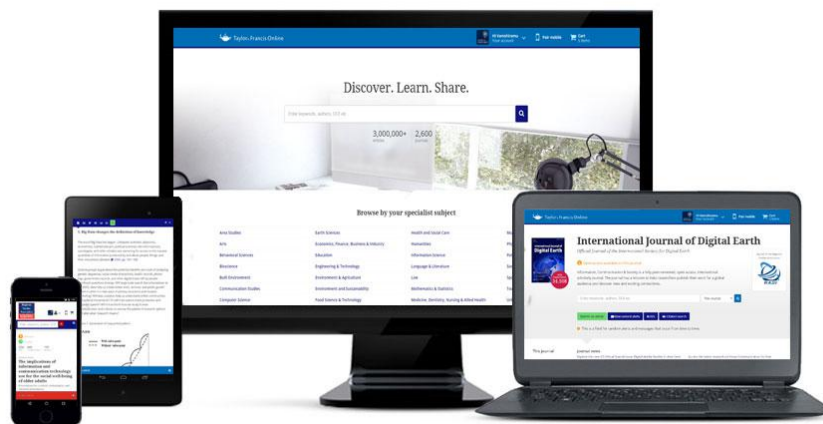




Taylor & Francis Online



发现 · 学习 · 分享

Taylor & Francis Group

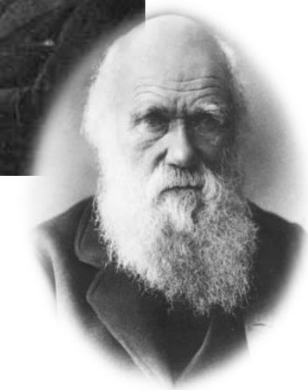
an informa business





Taylor & Francis出版集团介绍

- 创建于**1798**年，出版**2700**余种学术期刊
 - 最早商业运作学术期刊的出版社
 - 全球最大的社会科学出版社；**40%**的人文社科类期刊被**SSCI/A&HCI**收录；**70%**的科技类期刊被**SCIE** 收录
 - **2700+**期刊，**2300+**为Open Select
 - 合作伙伴 – 与**750**家学协会和大学合作；
- **全球网络** – **20** 家代表处遍布全球各大洲：北京、新加坡、东京、牛津、费城、墨尔本
- **旗下品牌：**



Taylor & Francis Group
an informa business



Taylor & Francis
Taylor & Francis Group



Routledge
Taylor & Francis Group



CRC Press
Taylor & Francis Group



Focal Press
Taylor & Francis Group

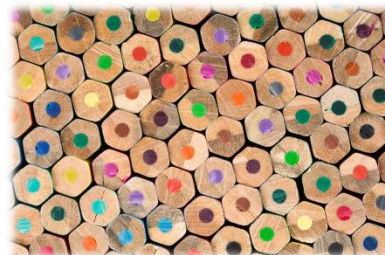


cogent oa



Taylor & Francis人文社科期刊库

- 提供**1,459种**经同行评审的学术现刊内容，覆盖**14个**学科领域，可延展阅读至**1997年**；
- **Taylor & Francis 人文社科期刊数据库**中超过75%的期刊收录于科学网®。



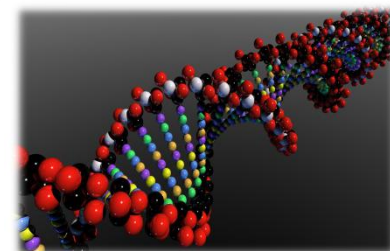
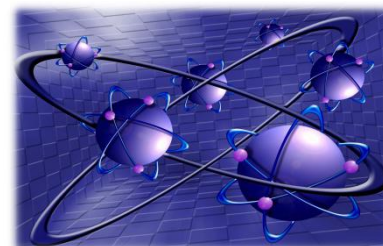
学科	2019 WOS收录	学科	2019 WOS收录
人类学、考古学与文化遗产	47 78.7%	图书馆与信息科学	43 44.2%
人文与艺术	269 76.2%	媒体、文化与传播学研究	90 81.1%
商业管理与经济	122 72.9%	政治学、国际关系与区域研究	143 73.4%
犯罪学与法学	51 62.7%	心理学	111 88.3%
教育学	225 81.8%	社会学及相关学科	46 76.1%
地理、城市规划与研究	86 80.2%	体育、休闲与旅游	65 70.7%
心理健康与社会保健	123 81.3%	策略、防务与安全研究	38 55.3%





Taylor & Francis科技期刊库

- 提供537种经同行评审的学术现刊内容，覆盖5个学科领域，可延展阅读至1997年；
- **Taylor & Francis 科技期刊数据库**中超过80%的期刊收录于科学网®。
- 自2015年8月，**NSTL成员**单位可以通过 www.tandfonline.com访问 Taylor & Francis科技期刊回溯库5个学科的344种期刊，从创刊年至**2000年**的内容。



学科	2019	SCI收录
化学	49	97.96%
工程计算与技术	195	84.10%
生物、地球、环境与食品科学	205	88.29%
数学与统计学	55	81.82%
物理学	33	84.85%



平台特点 - 发现 · 学习 · 分享



Taylor & Francis Online

Access provided by T&F Office Locations

Log in | Register | Cart

Discover. Learn. Share.

Enter keywords, authors, DOI etc

Advanced search

4,000,000+ articles

Browse by your specialist subject

Area Studies	Earth Sciences	Health and Social Care	Museum and Heritage Studies
Arts	Economics, Finance, Business & Industry	Humanities	Physical Sciences
Behavioral Sciences	Education	Information Science	Politics & International Relations
Bioscience	Engineering & Technology	Language & Literature	Social Sciences
Built Environment	Environment & Agriculture	Law	Sports and Leisure
Communication Studies	Environment and Sustainability	Mathematics & Statistics	Tourism, Hospitality and Events
Computer Science	Food Science & Technology	Medicine, Dentistry, Nursing & Allied Health	Urban Studies
Development Studies	Geography		

Librarians

Connect with our world-class resources.

[Resources for librarians](#)

Authors

Publish your research. Enhance your career.

[Resources for authors](#)

Editors

Essential guidance and support for editors.

[Resources for editors](#)

Societies

Collaborative publishing, global reach.

[Resources for societies](#)





平台特点 - 发现 · 学习 · 分享

- 访问网址 – www.tandfonline.com
- 文章 – 超过410万篇科技人文医学资料供科研人员随时查阅
- 期刊 – 2,700余种期刊，每份期刊都经过严格的同行评审
- 其他 – 作者、图书馆员、编辑和学协会板块

Librarians

Connect with our world-class resources.

[Resources for librarians](#)

Authors

Publish your research.
Enhance your career.

[Resources for authors](#)

Editors

Essential guidance and support for editors.

[Resources for editors](#)

Societies

Collaborative publishing, global reach.

[Resources for societies](#)



平台特点 - 发现 · 学习 · 分享

AUTHORSERVICES

Supporting Taylor & Francis authors

- Choosing a journal
- Writing your paper
- Making your submission
- Understanding peer review
- Moving through production
- You're published!



Looking to publish your research?

Now's the time to research the journals you want to publish in. Search [Taylor & Francis Online](#), read your chosen journal's [Aims & Scope](#), and browse published articles. Build up a picture of who you're writing for, and your chosen journal's style and submission process.

- Step 1** Looking to publish your research?
- Step 2 Write a draft of your article
- Step 3 Read the instructions for authors
- Step 4 An initial assessment by the journal editor
- Step 5 Your article is being reviewed
- Step 6 The journal will collate reviews
- Step 7 Your article is accepted
- Step 8 Your article is published

- News
- Calls for papers
- Insights
- Altmetric top 5

 Browse journals and articles on Taylor & Francis Online 

Opening up citations: launch of I4OC



There is fresh momentum in the scholarly publishing world to open up data on the citations that link research publications. We're proud to be part of the initiative, contributing to a project that makes them freely available for everyone to access & reuse. [Find out about I4OC, the Initiative for Open Citations.](#)

@tandfauthorserv

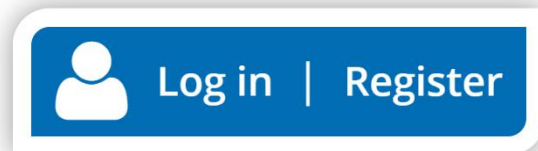
Delighted to be working with @Publons to help reviewers gain recognition for the work they do... <https://t.co/NnQ7CsGa7B> about 12



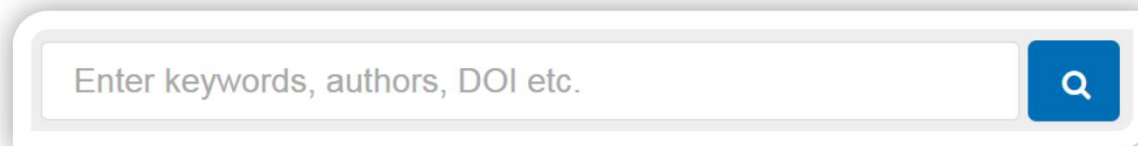


平台使用

- 注册



- 检索



- 文章页面

- 期刊页面



平台注册



informa ▾

Taylor & Francis Online Access provided by T&F Office Locations [Log in](#) | [Register](#) [Cart](#)

Discover. Learn. Share.

Enter keywords, authors, DOI etc [Advanced search](#)

4,000,000+ articles

A background image showing a large conference room with several round tables covered in white cloths. People are seated around the tables, engaged in discussion. The room has a modern, professional atmosphere with large windows and a curved staircase in the foreground.

Browse by your specialist subject

Area Studies	Earth Sciences	Health and Social Care	Museum and Heritage Studies
Arts	Economics, Finance, Business & Industry	Humanities	Physical Sciences
Behavioral Sciences	Education	Information Science	Politics & International Relations
Bioscience	Engineering & Technology	Language & Literature	Social Sciences
Built Environment	Environment & Agriculture	Law	Sports and Leisure



平台使用 - 检索




The screenshot shows the Taylor & Francis Online website interface. At the top, there is a blue navigation bar with the Taylor & Francis logo and the text "Taylor & Francis Online". To the right of the logo are links for "Log in", "Register", and "Cart". Below the navigation bar is a large banner image showing a group of people in a forest. Overlaid on the banner is a search bar with the text "biodiversity|". To the right of the search bar is a magnifying glass icon and the text "Advanced search". Below the search bar is a list of search results:

- Systematics and **Biodiversity** (Journal)
- International Journal of **Biodiversity** Science, Ecosystem Services & Management (Journal)
- Biodiversity** (Journal)
- Biodiversity** & Conservation (Subject)
- Biodiversity** (Subject)
- Biodiversity** Institute, Florida Museum of Natural History
- Battifora, H. (Author)
- Bedford, Dorothy (Author)
- Budvári-Bárány, Zs. (Author)



平台使用 - 检索结果



biodiversity 

Your search for **All: biodiversity**
1-10 of 75,050 results | Save this search

Articles (75050) Journals (32) Databases (152)

Order by Relevance | 10 per page
Newest first | 20 per page
50 per page

Refine your search

Only show content I have full access to

Selected filters

Subject +

Published in +

Publication date +

Modify your search

Anywhere | biodiversity +
Search

Article
The Azorean Biodiversity Portal: An internet database for regional biodiversity outreach >

PAULO A.V. BORGES †, ROSALINA GABRIEL †, ANA M. ARROZ †, ANA COSTA †, REGINA T. CUNHA †, LUÍS SILVA †, ENÉSIMA MENDONÇA †, ANTÓNIO M. F. MARTINS †, FRANCISCO REIS † & PEDRO CARDOSO †
Systematics and Biodiversity, Volume 8, 2010 - Issue 4
Published Online: 21 Dec 2010

Article
The roles and contributions of Biodiversity Observation Networks (BONs) in better tracking progress to 2020 biodiversity targets: a European case study >

Florian T. Wetzel, Hannu Saarenmaa, Eugenie Regan, Corinne S. Martin, Patricia Mergen, Larissa Smirnova, Éamonn Ó Tuama, Francisco A. García Camacho, Anke Hoffmann, Katrin Vohland & Christoph L. Häuser
Biodiversity, Volume 16, 2015 - Issue 2-3
Published Online: 22 Sep 2015

Article
Biodiversity, War, and Tropical Forests >

Jeffrey A. McNeely
Journal of Sustainable Forestry, Volume 16, 2003 - Issue 3-4
Published Online: 13 Oct 2008

平台使用 - 检索结果



biodiversity

Your search for **All: biodiversity**

1-10 of 75,050 results | Save this search

Articles (75050) Journals (32) Databases (152) Order by Relevance 10 per page

Refine your search

Only show content I have full access to

Selected filters

Subject

Published in

Soil Science and Plant Nutrition (4664)

Ostrich (3934)

Bird Study (2725)

Canadian Journal of Plant Pathology (2718)

Scandinavian Journal of Forest Research (2230)

MORE (95)

Publication date

Modify your search

Anywhere biodiversity +

Search

Anywhere biodiversity +

Search

Article

The Azorean Biodiversity Portal: An internet database for regional biodiversity outreach >

PAULO A.V. BORGES †, ROSALINA GABRIEL †, ANA M. ARROZ †, ANA COSTA †, REGINA T. CUNHA †, LUÍS SILVA †, ENÉSIMA MENDONÇA †, ANTÓNIO M. F. MARTINS †, FRANCISCO REIS † & PEDRO CARDOSO †

Systematics and Biodiversity, Volume 8, 2010 - Issue 4

Published Online: 21 Dec 2010

Article

The roles and contributions of Biodiversity Observation Networks (BONs) in better tracking progress to 2020 biodiversity targets: a European case study >

Florian T. Wetzel, Hannu Saarenmaa, Eugenie Regan, Corinne S. Martin, Patricia Mergen, Larissa Smirnova, Éamonn Ó Tuama, Francisco A. García Camacho, Anke Hoffmann, Katrin Vohland & Christoph L. Häuser

Biodiversity, Volume 16, 2015 - Issue 2-3

Published Online: 22 Sep 2015

Article

Biodiversity, War, and Tropical Forests >

Jeffrey A. McNeely

Journal of Sustainable Forestry, Volume 16, 2003 - Issue 3-4

Published Online: 13 Oct 2008



平台使用 - 检索结果



biodiversity

Your search for All: biodiversity

1-10 of 32 results | Save this search

Articles (75050) Journals (32) Databases (152)

Order by Relevance | 10 per page

Refine your search

Only show content I have full access to

Selected filters

Subject

Modify your search

Anywhere biodiversity +

Search

Journal
[Biodiversity](#) >

Journal
[Neotropical Biodiversity](#) >

Journal
[Systematics and Biodiversity](#) >

Journal
[Journal of Biodiversity](#) >

Journal
[International Journal of Biodiversity Science, Ecosystem Services & Management](#) >

Journal
[International Journal of Biodiversity Science & Management](#) >



平台使用 - 高级检索(通配符)



L*st

Refine your search

Only show content I have full access to

Selected filters

Subject +

Published in +

Publication date +

Your search for All: l*st

11-20 of 2,734,151 results | Save this search

Articles (2734151)

Databases (22494)

Order by Relevance

10 per page

Article

The Adjective Check List as an outcome measure: Assessment of personality change in psychotherapy >

Zohar Itzhar-Nabarro, George Silberschatz & John T. Curtis
Psychotherapy Research | Published Online: 19 Oct 2009

Article

The social and clinical characteristics of patients on antiretroviral therapy who are 'lost to follow-up' in KwaZulu-Natal, South Africa: a prospective study >

Professor Karl Peltzer, Shandir Ramlagan Master's Degree, Dr Mohamed Salim Khan & Dr Bernhard Gaede
SAHARA: Journal Of Social Aspects Of HIV/AIDS | Published Online: 28 Feb 2012

Article

First record of *Aspergillus oryzae* (Eurotiales: Trichocomaceae) as an entomopathogenic fungus of the locust, *Locusta migratoria* (Orthoptera: Acrididae) >

Pengfei Zhang, Yinwei You, Yuan Song, Youzhi Wang & Long Zhang
Biocontrol Science And Technology | Published Online: 05 Jun 2015

Article

Quantification of LST and CO₂ levels using Landsat-8 thermal bands on urban environment >

Venkatesh Reddy Chennila, Pramod Kumar Maheshuni & Venkata Ravibabu Mandla
Geocarto International | Published Online: 29 Oct 2015

Article

Fixed-combination latanoprost-timolol for the treatment of glaucoma >

Wendy Franks
Expert Review Of Ophthalmology | Published Online: 09 Jan 2014

List
lost
locust
LST
latanoprost

注意：

1. 在检索条件开头使用通配符将导致错误！
2. 短语中的通配符将被忽略！



平台使用 - 高级检索(位置算符)



"Debt forgiveness"

2893

Your search for All: "debt forgiveness"

1-10 of 580 results

Refine your search

Only show content I have full access to

Selected filters

Subject +

Published in +

"Debt forgiveness"

Modify your search

Anywhere "Debt forgiveness" +

Articles (580)

Databases (2)

Order by Relevance

10 per page

Article

A Systemic Debt Payoff Policy >

Timothy Wunder

Journal of Economic Issues, Volume 52, 2018 - Issue 2

Published Online: 11 Jun 2018

Article

Impossible Macroeconomic Trinity: The Challenge to Economic Governance in the Eurozone >

David Vines

Journal of European Integration, Volume 37, 2015 - Issue 7

Published Online: 27 Oct 2015

Article

The impact of debt relief on under five mortality rate in Sub-Saharan Africa >

John Bosco Oryema, Kwabena Gyimah-Brempong & Gabriel Picone

Global Public Health, Volume 12, 2017 - Issue 6

Published Online: 10 Feb 2017

Article

Private Debt and Public Debility >



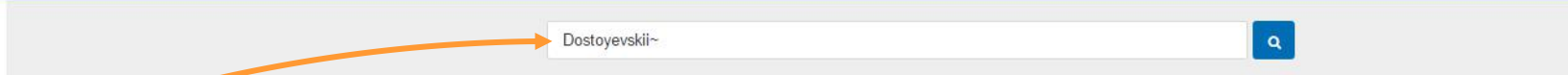
669



580



平台使用 – 高级检索(模糊检索)



Your search for All: dostoyevskii~

11-20 of 2,854 results | Save this search

Refine your search

Only show content I have full access to

Selected filters

Subject +

Published in +

Publication date +

Articles (2854) Databases (3)

Order by Relevance ▾

10 per page ▾

Article

Paul and I Like to Read Good Literature >

Frank M. Lachmann Ph.D.

International Journal Of Psychoanalytic Self Psychology Published Online: 06 Mar 2015

On Studying Dostoevskii >

Georgii Florovskii

Russian Studies In Philosophy Published Online: 10 Dec 2014

Book review

Charles E. Passage, *Dostoevski the Adapter: A Study of Dostevski's Use of the Tales of Hoffmann*: Chapel Hill: University of North Carolina Press, 1954. Pp. 203. >

Harvey W. Hewett-thaler

The Germanic Review: Literature, Culture, Theory Published Online: 30 Nov 2016

Article

Confessions from the Hague, Records from St. Petersburg: Points of Contact in the Works of F.M. Dostoyevsky and M. Emants >

Judit Gera

Dutch Crossing Published Online: 14 Oct 2016

Dostoyevskii~

Dostoyevskii

Dostoyevsky

Dostoyevski



平台使用 - 高级检索(布尔运算符)



biodiversity +africa -plant

Your search for **[All: biodiversity africa] AND NOT [All: plant]**
1-10 of 3,622 results [Save this search](#)

Articles (3622) Databases (5) Order by Relevance 10 per page

Refine your search

Only show content I have full access to

Selected filters

Subject +
Published in +
Publication date +

Save your search

Search name: biodiversity

Frequency of alerts: Never (selected), Daily, Weekly, Monthly

biodiversity +Africa

Biodiversity and studies of marine symbiotic siphonostomatoids off South Africa >

...ing framework built to

...man & Vishwas Chavan

... Fishes >

Molecular species identification and population genetics of chondrichthyans in South Africa: current challenges, priorities and progress >

Aletta E Bester-van der Merwe & Katie S Gledhill
African Zoology 11 Aug 2015

Research article

Current practice in biodiversity impact assessment and prospects for developing an integrated process >

Aínhua González, Damien Keneghan, John Fry & Tamara Hochstrasser
International Archives of Zoology 20 Oct 2013



平台特点 - 文章页面



Taylor & Francis Online Access provided by T&F Office Locations Hi Ms Monica Xiao Cart
Your account

Journal **Cartography and Geographic Information Science** >
 Volume 45, 2018 - Issue 5

Submit an article Journal homepage

Enter keywords, authors, DOI etc. This Journal
This Journal search
Anywhere

Full access

542 Views

1 CrossRef citations to date

0 Altmetric

webReader by ReadSpeaker

ZiQiang Li **Saman Aryana**

Pages 464-475 | Department of Mathematics, University of Wyoming, Laramie, USA; Department of Chemical Engineering, University of Wyoming, Laramie, USA

Correspondence: saryana@uwyo.edu
<http://orcid.org/0000-0001-9509-7420>
[View further author information](#)

ABSTRACT

A planar cartogram on spheres which the area of each closed region is in direct proportion to a chosen extensive property. To date, various algorithms have been proposed to construct planar cartograms. This work extends the two-dimensional, diffusion-based, topologically invariant cartogram algorithm proposed by Gastner and Newman onto spheres. Unlike its planar counterpart, the spherical formulation does not require boundary conditions and is invariant to the rotation of input data on the sphere. An implementation of this spherical cartogram transformation is designed to generate readable topology-preserving cartograms on spheres. Lastly, the method is illustrated with applications to global data such as worldwide human population, gross domestic product (purchasing power parity), carbon dioxide emissions and regional data such as the Electoral College of the United States presidential election of 2016.

KEYWORDS: Cartograms, spherical geometry, spherical diffusion, topology-preserving cartograms

Supplemental Citations Metrics Reprints & Permissions PDF

In this article

- ABSTRACT
- 1. Introduction
- 2. Discretization on spheres
- 3. Validation
- 4. Applications
- 5. Conclusions
- Supplemental material
- References

1. Introduction

Density-equalizing maps, also known as *cartograms*, are a family of info-graphic tools that specialize in

Related articles

Instability of planetary flows using Riemann curvature: a numerical study
 Richard Blender et al., *Geophysical & Astrophysical Fluid Dynamics*, 2018

The daily dynamic potential accessibility by car in London on Wednesdays
 Borja Moya-Gómez et al., *Journal of Maps*, 2017

The effect of heterogeneous electric vehicles with different battery capacities in parking lots on peak load of electric power distribution networks
 Samira Pazouki et al., *International Journal of Ambient Energy*, 2018

Decay of correlation implies strongly mixing property
 Yu-Qiong Lei et al., *International Journal of General Systems*, 2018

Perspectives on geospatial information science education: an example of urban planners in Southern Africa
 Walter Mueckler et al., *Geo-spatial Information Science*, 2017

Tencent QQ
 Facebook
 Twitter
 Print
 Email
 Pinterest
 Gmail
 More... (184)
 AddThis

People who viewed this article also viewed

Complexity reduction in choropleth map animations

Filip Biljecki et al.
 Cartography and Geographic Information Science
 Volume 45, 2018 - Issue 2
 Published online: 26 Jan 2017

平台特点 - 文章页面



Taylor & Francis Group
an informa business



Information Classificati

Taylor & Francis Online

Access provided by T&F Internal Users

Hi Ms Monica Xiao
Your account

Journal
International Journal of Neuroscience
Volume 126, 2016 - Issue 8

Enter keywords, authors, DOI etc.

This Journal

47 Views

0 CrossRef citations

0 Altmetric

Research article

RETRACTED ARTICLE: Serum protein biomarkers screening in patients with ischemic stroke by LC-MS/MS

Xue-jun Wei, Feng Li, Feng-yong Yang & Chong-hao Duan

Page 692-699 | Received 21 Jul 2014, Accepted 22 Mar 2015, Accepted author version posted online: 22 May 2015, Published online: 17 Aug 2015

Download citation | <http://dx.doi.org/10.3109/00207454.2015.1033713> | Crossmark

Full Article | Figures & data | Metrics | Reprints & Permissions | PDF

In this article

ORIGINAL ARTICLE

RETRACTED ARTICLE: Serum protein biomarkers screening in patients with ischemic stroke by LC-MS/MS*

Xue-jun Wei,^{1,4} Feng Li,^{1,4} Feng-yong Yang,^{1,4} and Chong-hao Duan^{1,4}

¹Department of Intensive Care Unit and; ²Department of Emergency, The People's Hospital of Laishan City, Laishan, Shandong Province, P. R. China

Background: The purpose of this study was to investigate the serum protein biomarkers by high-throughput liquid chromatography coupled to tandem mass spectrometry quantification methods in patients with acute ischemic stroke (AIS). **Abstract:** In the study period, data from 40 AIS patients aged 40-70 years old were selected for screening study. The selected protein associations with disease risk were confirmed by enzyme-linked immunosorbent assay (ELISA) testing of the remaining stroke cases and 20 healthy subjects. Biomarker diagnosis was approached through receiver operating characteristic (ROC) curve analysis. Patients versus control levels differences were analyzed for 19 proteins (normal P < 0.05). Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) was associated with disease risk (P = 0.008). The association of mannose-binding lectin (MBL) with disease (P = 0.008) was confirmed using ELISA in replication studies. Based on the ROC curve, MBL was a sensitive marker for the diagnosis of ischemic stroke (AUC = 0.812, CI: 0.724-0.876). In multivariate analysis, there was an increased risk of AIS associated with MBL levels > 1050 µg/L (OR 4.76, 95% CI: 1.39-16.12) after adjusting for possible confounding factors. **Conclusion:** The discovery and replication studies presented here show MBL to be a risk marker for AIS in the Chinese population, which appears to be a novel finding.

KEYWORDS: mannose binding lectin; acute ischemic stroke; risk factor

Introduction

China has 2.5 million new stroke cases every year. In addition, approximately 1.6 million of the patients will die and 7.5 million stroke survivors are left behind (1.9%–30% of survivors will be permanently disabled), which has exceeded heart disease to become the second leading cause of death among all causes (1). Stroke places a tremendous burden on health resources in China. Early and accurate prediction of outcome in stroke is important and influences risk optimized therapeutic strategies (2). Revascularization is possible if the stroke patient is brought to a well-equipped stroke unit in a particular window of time. However, it is difficult for patients to reach such a center within this window, even in developed countries. With increased interest in clinical proteomics, the use of comparative investigations of differential protein expressions is more common than ever before for diagnostic and prognostic assessments of disease states.

Blood protein markers provide a source for novel disease risk markers and have potential to enhance the understanding of disease pathogenesis (3). The discovery of novel candidate protein biomarkers from serum using high-throughput proteomic technologies has extracted enthusiasm in the biomedical research community. Liquid chromatography coupled to tandem mass spectrometry (LC-MS/MS) is an alternative approach that couples protein fractionation with mass spectrometry to generate a comprehensive catalog of the proteome of analyzed fluid samples (4). One of the greatest strengths of tandem mass spectrometry for protein identification is the inherent ability to sequence peptides directly from mixtures (5). Protein-peptide quantification using labeling strategies usually requires labeling of the cysteiny or amino groups of all peptides with isotope-coded

CrossMark

Retraction
Retraction dated 2016-07-11

Click to view Retraction:
<https://doi.org/10.1080/00207454.2016.1208946>

Serum protein biomarkers screening in patients with ischemic stroke by LC-MS/MS

Crossref DOI link: <https://doi.org/10.3109/00207454.2015.1033713>

Published:

Update policy: https://doi.org/10.1080/tandf_crossmark_01

Authors

More Information

About CrossMark

平台使用 - 文章页面



In this article

ABSTRACT

1. Introduction

2. Discretization on spheres

3. Validation

4. Applications

5. Conclusions

Supplemental material

References



导航菜单保持原处，方便读者随手调用

A planar cartogram is a two-dimensional map, on which the area of each closed region is in direct proportion to a chosen extensive property. To date, various algorithms have been proposed to construct planar cartograms. This work extends the two-dimensional, diffusion-based, topologically invariant cartogram algorithm proposed by Gastner and Newman onto spheres. Unlike its planar counterpart, the spherical formulation does not require boundary conditions and is invariant to the rotation of input data on the sphere. An implementation of this spherical cartogram transformation is designed to generate readable topology-preserving cartograms on spheres. Lastly, the method is illustrated with applications to global data such as worldwide human population, gross domestic product (purchasing power parity), carbon dioxide emissions and regional data such as the Electoral College of the United States presidential election of 2016.

KEYWORDS: Cartograms, spherical geometry, spherical diffusion, topology-preserving cartograms

1. Introduction

Density-equalizing maps, also known as *cartograms*, are a family of infographic tools that specialize in creating maps, on which the areas of nations are linearly proportional to their enclosed extensive property. From the earliest hand-drawn cartograms that date back as far as 1868 (Funkhouser, 1937, pp. 355–356) and 1934 (Raisz, 1934), to the more recent computer-generated cartograms (FiveThirtyEight, 2016), cartographers have been on the pursuit of the most ideal infographic tool (Alam, Kobourov, & Veeramoni, 2015). Popular applications of the cartogram include population demographics (House & Kocmoud, 1998), election maps (FiveThirtyEight, 2016; Gastner & Newman, 2004), and frequency analysis of events (Gastner & Newman, 2004). Regardless of their internal details, central to all cartograms is the step to rescale all or part of an ordinary map according to a chosen geospatial-dependent statistic such that this statistic becomes homogenized.

A multitude of algorithms has been designed to create cartograms of varying complexity, accuracy, and purpose (Nusrat & Kobourov, 2016). To meet their specific goals, cartographers have consulted mathematical models in physics, e.g. springs (House & Kocmoud, 1998) and diffusion (Gastner & Newman, 2004), or have created arbitrary mechanisms that are still mathematically valid (Kämper, Kobourov, & Nöllenburg, 2013). Some cartographers, e.g. Dougenik, Chrisman, and Niemeyer (1985), prefer to maintain correct topology at the expense of severe distortion; in the more extreme case, the relative positions of two territories may not be preserved. Cartographers working with discrete quantities,

Related articles

Instability of planetary flows using Riemann curvature: a numerical study
Richard Blender et al., Geophysical & Astrophysical Fluid Dynamics, 2018

The daily dynamic potential accessibility by car in London on Wednesdays
Borja Moya-Gómez et al., Journal of Maps, 2017

The effect of heterogeneous electric vehicles with different battery capacities in parking lots on peak load of electric power distribution networks
Samira Pazouki et al., International Journal of Ambient Energy, 2018

Decay of correlation implies strongly mixing property
Yu-Qiong Lei et al., International Journal of General Systems, 2018

Perspectives on geospatial information science education: an example of urban planners in Southern Africa
walter musakwa et al., Geo-spatial Information Science, 2017

Description and characterization of place properties using topic modeling on georeferenced tags
Azam R. Bahrehdar et al., Geo-spatial Information Science, 2018

Atmosphere: Finding the missing particles
Pacific Northwest National Laboratory, ScienceDaily, 2015

Research highlights from the 2018 ERS International Congress: Interstitial lung diseases
Tiago M. Alfaro et al., ERJ Open Res, 2019

Powered by TREND MD

People also read

Article

The effect of acquisition error and level of detail on the accuracy of spatial



平台使用 - 文章页面



Taylor & Francis Online

Access provided by T&F Internal Users

Hi Ms Monica Xiao
Your account

Journal
Road Materials and Pavement Design >
Volume 17, 2016 - Issue 3

Enter keywords, authors, DOI etc. This Journal

140 Views

0 CrossRef citations

0 Altmetric

Research article

Determination of modifier contents in polymer-modified bitumens and in samples collected from the roads using high-performance gel permeation/size-exclusion chromatography

Judyta Kosińska ✉ Grzegorz Boczkaj, Grażyna Gałęzowska, Joanna Podwysocka, Andrzej Przyjazny & Marian Kamiński

Page 547-562 | Received 29 Dec 2014, Accepted 10 Sep 2015, Published online: 15 Oct 2015

Download citation <http://dx.doi.org/10.1080/14680629.2015.1094398> Crossmark

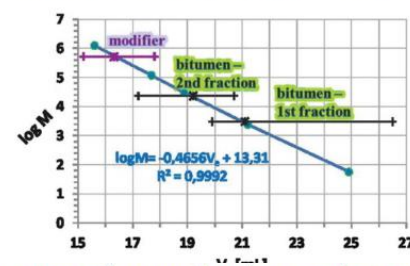
Full Article Figures & data References Metrics Reprints & Permissions PDF

Facebook Twitter LinkedIn Email Print

- In this article
- GRAPHICAL ABSTRACT
 - 1. Introduction
 - 2. Materials and methods
 - 3. Results and discussion
 - 4. Conclusions

Abstract

This paper describes application of high-performance gel permeation/size-exclusion chromatography (GPC/SEC) for the determination of content of polymer modifiers in modified road bitumens. The obtained results were compared with the measurements based on the procedure recommended by the American Association of State Highway and Transportation Officials, which employs Fourier transform mid-infrared spectroscopy. Two most commonly used modifiers of paving bitumens, namely, styrene-butadiene-styrene and styrene-butadiene copolymers as well as modified bitumens sampled from various streets in the city of Gdansk (Poland), were investigated. This work confirmed the ability of GPC/SEC to distinguish modified road bitumens from unmodified ones. The developed methodology is particularly important in quality control of modified bitumens, as well as in arbitration analysis when there is a suspicion that the amount of modifier added to bitumen was lowered or that the material does not meet the specifications concerning the modifier content.



People also read

- Research article
- #### Towards asphalt mixture morphology evaluation with the virtual specimen approach
- Ibrahim Onifade et al.
Road Materials and Pavement Design
15 Oct 2015
- Research article
- #### Reliability-based calibration for a mechanics-based fatigue cracking design procedure
- Yared H. Dinegda et al.
Road Materials and Pavement Design
9 Oct 2015



平台使用 - 文章页面



Download citation <http://dx.doi.org/10.1080/23311835.2016.1189375> Crossmark

Full Article Figures & data References Metrics Licencing PDF

In this article

- Abstract
- 1. Introduction
- 2. Model description
- 3. Solution methodologies
- 4. Computational analysis

Abstract

In this paper, the problem examined concerns a firm entering a new facility in the market where facilities belonging to the firm and another competitor firm exist. The market's reverse logistics network that has attracted growing attention with stringent pressures from environmental and social requirements is considered. The firm was... and the most attractive facility to open. The other... and attempt to maximize its own profit by adjusting... and is assumed to be aggregated at certain points in the plane and the facilities of the firm can be located at pre-determined candidate sites. To do this, Huff's gravity-based rule in modeling the behavior of the customers is

Formulae display: MathJax ?

Formulae display: MathJax ?

People also read

Research article

Approximate controllability of abstract semilinear stochastic control systems with nonlocal conditions

Divya Ahluwalia et al.

Now, we can formulate the following bi-level MINLP model P as follows:

$$P: \max \sum_{j=1}^{n_1} h_j \frac{\sum_{l \in E} \frac{g_l^f + g_l^h}{d_{lj}^2} + \sum_{i=1}^m \frac{A_i}{\bar{d}_{ij}^2}}{\sum_{l \in E} \frac{g_l^f + g_l^h}{d_{lj}^2} + \sum_{i=1}^m \frac{A_i}{\bar{d}_{ij}^2} + \sum_{k=1}^s \frac{A_k}{\bar{d}_{kj}^2}} + \sum_{j=n_1+1}^n h_j \frac{\sum_{l \in E} \frac{g_l^h + g_l^r}{d_{lj}^2} + \sum_{i=1}^m \frac{A_i}{\bar{d}_{ij}^2}}{\sum_{l \in E} \frac{g_l^h + g_l^r}{d_{lj}^2} + \sum_{i=1}^m \frac{A_i}{\bar{d}_{ij}^2} + \sum_{k=1}^s \frac{A_k}{\bar{d}_{kj}^2}} - \sum_{l \in E} f^f x_l^f + f^h x_l^h + f^r x_l^r - \sum_{l \in E} (g_l^f + g_l^h + g_l^r) c_l$$

(1)

平台使用 - 文章页面



Journal
Cartography and Geographic Information Science >
Volume 45, 2018 - Issue 5

Enter keywords, authors, DOI etc. This Journal Advanced search

438 Views
1 CrossRef citations to date
0 Altmetric

Original Articles **Diffusion-based cartogram on spheres**

Ziqiang Li & Saman Aryana
Pages 464-475 | Received 29 Jun 2017, Accepted 19 Nov 2017, Published online: 20 Dec 2017

Download citation <https://doi.org/10.1080/15230406.2017.1408033> Check for updates

Full access

- Full Article
- Figures & data
- References
- Supplemental
- Citations
- Metrics
- Reprints & Permissions
- PDF
-

ABSTRACT

A planar cartogram is a two-dimensional map, on which the area of each closed region is in direct proportion to a chosen extensive property. To date, various algorithms have been proposed to construct planar cartograms. This work extends the two-dimensional, diffusion-based, topologically invariant cartogram algorithm proposed by Gastner and Newman onto spheres. Unlike its planar counterpart, the spherical formulation does not require boundary conditions and is invariant to the rotation of input data on the sphere. An implementation of this spherical cartogram transformation is designed to generate readable topology-preserving cartograms on spheres. Lastly, the method is illustrated with applications to global data such as worldwide human population, gross domestic product (purchasing power parity), carbon dioxide emissions and regional data such as the Electoral College of the United States presidential election of 2016.

KEYWORDS: Cartograms, spherical geometry, spherical diffusion, topology-preserving cartograms

1. Introduction

Related articles

Instability of planetary flows using Riemann curvature: a numerical study
Richard Blender et al., *Geophysical & Astrophysical Fluid Dynamics*

The daily dynamic potential accessibility by car in London on Wednesdays
Borja Moya-Gómez et al., *Journal of Maps*

Decay of correlation implies strongly mixing property
Yu-Qiong Lei et al., *International Journal of General Systems*

The effect of heterogeneous electric vehicles with different battery capacities in parking lots on peak load of electric power distribution networks
Samira Pazouki et al., *International Journal of Ambient Energy*

Remote sensing of human beings – a perspective from nighttime light

In this article

ABSTRACT

1. Introduction

2. Discretization on spheres

3. Validation

4. Applications

5. Conclusions

Supplemental material

References



平台使用 - 文章页面



Taylor & Francis Online

Access provided by T&F Office Locations

Hi Ms Monica Xiao
Your account

Cart

542 Views

1 CrossRef to date

0 Altmetric

Diffusion-based cartogram on spheres

Ziqiang Li <http://orcid.org/0000-0002-3124-3107> & Saman Aryana <http://orcid.org/0000-0001-9509-7420>

<https://doi.org/10.1080/15230406.2017.1408033>

PUBLISHED ONLINE:
20 December 2017

Figure 1 of 11

Figure 1. Grid discretization, the equiangular grid (colored in black) and the dual grid (colored in blue). Nodes labeled N are cell centers in the original grid, while those labeled M are cell centers in the dual grid; (a) dual grid cells for $1 \leq k < 2B$, which excludes the two poles, and (b) dual grid cells at the north pole ($k = 1$) or the south pole ($k = 2B$). The nodes surrounding each pole form a latitude circle.

选择语言
Translator

People also read



平台使用 - 文章页面



Taylor & Francis Online Access provided by T&F Office Locations Hi Ms Monica Xiao Your account Cart

Journal **Cartography and Geographic Information Science** > Volume 45, 2018 - Issue 5

Enter keywords, authors, DOI etc. This Journal Advanced search

542 Views 1 CrossRef citations to date 0 Altmetric

Original Articles Full access

Diffusion-based cartogram on spheres

Ziqiang Li & Saman Aryana

Pages 464-475 | Received 29 Jun 2017, Accepted 19 Nov 2017, Published online: 20 Dec 2017

[Download citation](#) <https://doi.org/10.1080/15230406.2017.1408033> [Check for updates](#)

[Full Article](#) [Figures & data](#) **References** [Supplemental](#) [Citations](#) [Metrics](#) [Reprints & Permissions](#) [PDF](#) [Twitter](#) [Facebook](#) [Email](#) [+](#)

References

1. Alam, M. J. , Kobourov, S. G. , & Veeramoni, S. (2015). Quantitative measures for cartogram generation techniques. *Computer Graphics Forum* , 34(3), 351–360. doi:10.1111/cgf.12647 [Crossref], [Web of Science ®], [Google Scholar]
2. Bülow, T. (2001). *Spherical diffusion* (Technical Report No. MS-CIS-01-38). Retrieved Aug 2, 2016 from ScholarlyCommons http://repository.upenn.edu/cis_reports/718/ [Google Scholar]
3. Cheung, Y.-W. (2009). purchasing power parity. In: K. A. Reinert , R. S. Rajan , A. J. Glass , & L. S. Davis (Eds.), *The Princeton encyclopedia of the world economy* (Vol. 1, pp. 942–946). Princeton, NJ: Princeton University Press. [Google Scholar]
4. Chrisman, N. R. (2017). Calculating on a round planet. *International Journal of Geographical Information Science* , 31(4), 637–657. doi:10.1080/13658816.2016.1215465 [Taylor & Francis Online], [Web of Science ®], [Google Scholar]
5. CIA . (2015). *The World Factbook 2016–17* . Washington: Central Intelligence Agency. [Google Scholar]
6. Dougenik, J. A. , Chrisman, N. R. , & Niemeyer, D. R. (1985). An algorithm to construct continuous area cartograms. *The Professional Geographer* , 37(1), 75–81. doi:10.1111/j.0033-0124.1985.00075.x [Taylor & Francis Online], [Web of Science ®], [Google Scholar]

People also read

Article

The effect of acquisition error and level of detail on the accuracy of spatial analyses >

Filip Biljecki et al.

Cartography and Geographic Information Science
Volume 45, 2018 - Issue 2

Published online: 26 Jan 2017

Article

Complexity reduction in choropleth map animations by autocorrelation weighted generalization of time-series data >

平台使用 - 文章页面



In this

Cite Download (4.18 MB) Share Embed + Collect (you need to log in first)

ABSTRACT

1. Introduction

2. Description of spheres

3. Validation

4. Applications

5. Conclusion

Supplemental material

References



Diffusion-based cartogram on spheres

Paper posted on 21.12.2017, 06:32 by Ziqiang Li, Saman Aryana

A planar cartogram is a two-dimensional map, on which the area of each closed region is in direct proportion to a chosen extensive property. To date, various algorithms have been proposed to construct planar cartograms. This work extends the two-dimensional, diffusion-based, topologically invariant cartogram algorithm proposed by Gastner and Newman onto spheres. Unlike its planar counterpart, the spherical formulation does not require boundary conditions and is invariant to the rotation of input data on the sphere. An implementation of this spherical cartogram transformation is designed to generate readable topology-preserving cartograms on spheres. Lastly, the method is illustrated with applications to global data such as worldwide human population, gross domestic product (purchasing power parity), carbon dioxide emissions and regional data such as the Electoral College of the United States presidential election of 2016.

FUNDING

This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

99 views 24 downloads 0 citations

READ THE PEER-REVIEWED PUBLICATION

Diffusion-based cartogram on spheres



CATEGORIES

- Biotechnology
- Mathematical Sciences not elsewhere classified
- Cancer
- Science Policy

KEYWORD(S)

Cartograms spherical geometry

spherical diffusion

topology-preserving cartograms

LICENCE



EXPORT

People also read

Article

The effect of acquisition error and level of detail on the accuracy of spatial analyses >

Filip Biljecki et al.

Cartography and Geographic Information Science Volume 45, 2018 - Issue 2

Published online: 26 Jan 2017

Article

Complexity reduction in choropleth map animations by autocorrelation weighted generalization of time-series data >

Christoph Traun et al.

Cartography and Geographic Information Science Volume 45, 2018 - Issue 3

Published online: 3 Apr 2017

Obituary

Waldo R. Tobler (1930–2018) >

Keith C. Clarke

Cartography and Geographic Information Science Volume 45, 2018 - Issue 4



Diffusion-based cartogram on spheres

Source: Figshare

Diffusion-based cartogram on spheres

Source: Figshare

平台使用 - 文章页面



Enter keywords, authors, DOI etc.



In your account

- > Personal details
- > Addresses
- > Access entitlements
- > **New content & citation alerts**
- > Saved searches

Institutional Account

- > Access entitlements
- > Usage reports
- > IP Ranges
- > Shibboleth
- > Link resolver
- > Trusted proxy
- > Administrators
- > Co-branding
- > Addresses
- > Holdings

⚠ Manage alerts

Sign up to our alerting services to be notified of the things that you want to know directly to your email account.

New content alerts tell you when a new issue published in your selected titles is available online.

Latest article alerts tell you whenever new articles are published rapidly online, making new knowledge available to you in the shortest possible time.

Citation alerts notify you whenever a record that you have chosen has been cited.

You can manage the alerts you have already set up below.

You can set up alerts for additional titles simply by clicking on the *New content alerts* link on the publication pages.

New content alerts

Citation alerts

Select all

Delete

Sort By: Article title ▾

Article title	Publication	Publication date
<input type="checkbox"/> Diffusion-based cartogram on spheres	Cartography and Geographic Information Science Volume 45, Issue 5 pp. 464-475	20 Dec 2017
<input type="checkbox"/> Part-load HVAC Efficiency	Energy Engineering Volume 107, Issue 3 pp. 6-28	11 Mar 2010
<input type="checkbox"/> Philosophies of Difference	Australian Feminist Law Journal Volume 43, Issue 1 pp. 1-4	06 Jul 2017
<input type="checkbox"/> Problems Encountered in the Prediction of Flow-Generated Noise in HVAC Air Distribution Systems	Architectural Science Review Volume 45, Issue 4 pp. 371-374	10 Oct 2011
<input type="checkbox"/> The Azorean Biodiversity Portal: An internet database for regional biodiversity outreach	Systematics and Biodiversity Volume 8, Issue 4 pp. 423-434	21 Dec 2010

Your email alert settings have been updated.

Select all

Delete

Sort By: Article title ▾



平台使用 - 文章页面



Taylor & Francis Online

Access provided by T&F Office Locations

Hi Ms Monica Xiao
Your account

Cart

Journal
British Journal of Educational Studies
Latest Articles

Enter keywords, authors, DOI etc.

This Journal

Advanced search

1,067 Views

0 CrossRef citations to date

227 Altmetric

Listen

Articles

WHAT MOTIVATES PEOPLE TO TEACH, AND WHY DO THEY LEAVE? ACCOUNTABILITY, PERFORMATIVITY AND TEACHER RETENTION

Jane Perryman & Graham Calvert

Published online: 01 August 2018

Download citation

Full Article

PDF

Twitter Facebook Email Plus

WHAT MOTIVATES PEOPLE TO TEACH, ...

PDF

Download as PDF

PDF

View Interactive PDF

0

Scopus 0

- Related articles
- Why become a teacher? Student teachers' perceptions of the teaching profession and motives for career choice
Ulrika Bergmark et al., European Journal of Teacher Education, 2018
 - Is teacher attrition a poor estimate of the value of teacher education? A Swedish case
Rickard Carlsson et al., European Journal of Teacher Education, 2019
 - Factors Influencing Retention of Gen Y and Non-Gen Y Teachers Working at International Schools in Asia
Hoi Wah Benny Fong, The Educational Forum, 2017
 - Retention of Construction Teachers in Secondary Education
David W. McCandless Ed.D. et al., Int J Constr Educ Res, 2010
 - Almost half of new teachers consider leaving within 10 years, according to new study
Taylor & Francis Group, ScienceDaily, 2019
 - The Use of Teachers' Expertise in Subsequent Careers: Brain Drain, Skill Spill?
Buchanan, John et al., Education and Society
 - There's No Modern Substitute For Some Old-fashioned One-on-one
University of Michigan Health System, ScienceDaily, 2006
 - Perspectives on geospatial information science education: an example of urban planners in Southern Africa

Article metrics information
Disclaimer for citing articles



平台使用 - 期刊页面



Taylor & Francis Online Access provided by T&F Office Locations Hi Ms Monica Xiao Your account Cart



Cartography and Geographic Information Science

Published on behalf of the Cartography and Geographic Information Society

2017 Impact Factor 1.785

Enter keywords, authors, DOI etc This Journal Advanced search

[Submit an article](#) [New content alerts](#) [RSS](#) [Subscribe](#) [Citation search](#)

[Current issue](#) [Browse list of issues](#)

- This journal
- [Aims and scope](#)
 - [Instructions for authors](#)
 - [Society information](#)
 - [Journal information](#)
 - [Editorial board](#)

Latest two full volumes
FREE to you for 14 days

Action toward
Open GIScience
Win US\$ 1,000
with IJGIS
[Click here to find out how](#)


MISSION:
SEARCH AND WIN \$400 WORTH
OF TRAVEL VOUCHERS

Latest articles

<p>Article Adaptability of atlas symbol sizes under multivariate conditions ></p> <p>Song et al. Published online: 1 Mar 2019</p>	<p>Article Placial analysis of events: a case study on criminological places ></p> <p>Cho et al. Published online: 1 Mar 2019</p>	<p>Article Follow the road: historical GIS for evaluating the development of routes in the Negev region during the twentieth century ></p> <p>Zohar Published online: 26 Feb 2019</p>	<p>Article New measures for analysis and comparison of shape distortion in world map projections ></p> <p>Basaraner et al. Published online: 4 Feb 2019</p>
--	--	--	--

< **Volume 46, 2019** Vol 45, 2018 Vol 44, 2017 Vol 43, 2016 >

[View more >](#)
[See all volumes and issues](#)

Latest articles	
Volume 46 2019	o
Volume 45 2018	o
Volume 44 2017	o
Volume 43 2016	o
Volume 42 2015	o
Volume 41 2014	o
Volume 40 2013	o
Volume 39 2012	o
Volume 38 2011	o

< **Issue 4** Issue 3 Issue 2 Issue 1 >

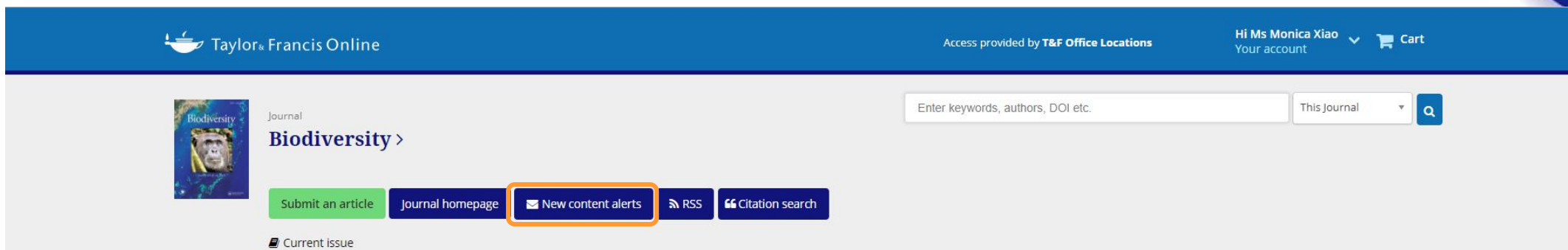
Original Articles

Article
[Elements of viral cartography](#) >

Anthony C. Robinson
Pages: 293-310
Published online: 24 Aug 2018
[Abstract](#) | [Full Text](#) | [References](#) | [PDF \(3176 KB\)](#) | [Supplemental](#)

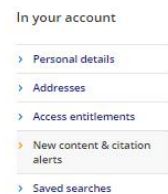
769 Views
1 CrossRef citations
61 Altmetric

平台使用 – 期刊页面



订阅期刊的最新内容推送，第一时间了解科研最新进展

1. 只需点击期刊页面New content alerts订阅按钮；
2. 网页将转到个人账户下的管理订阅页面；
3. 订阅内容列表中自动添加最新订阅期刊(字母顺序)；
4. 选取期刊列表提供的勾选框，根据需要删除不需要的订阅；
5. 或调整订阅通知的发送频率：不要通知，或按每天/周/月发送；



Manage alerts

Sign up to our alerting services to be notified of the things that you want to know directly to your email account.

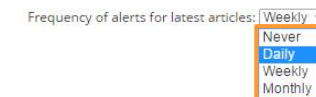
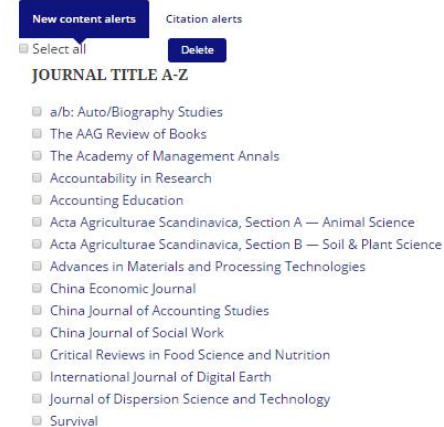
New content alerts tell you when a new issue published in your selected titles is available online.

Latest article alerts tell you whenever new articles are published rapidly online, making new knowledge available to you in the shortest possible time.

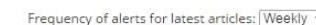
Citation alerts notify you whenever a record that you have chosen has been cited.

You can manage the alerts you have already set up below.

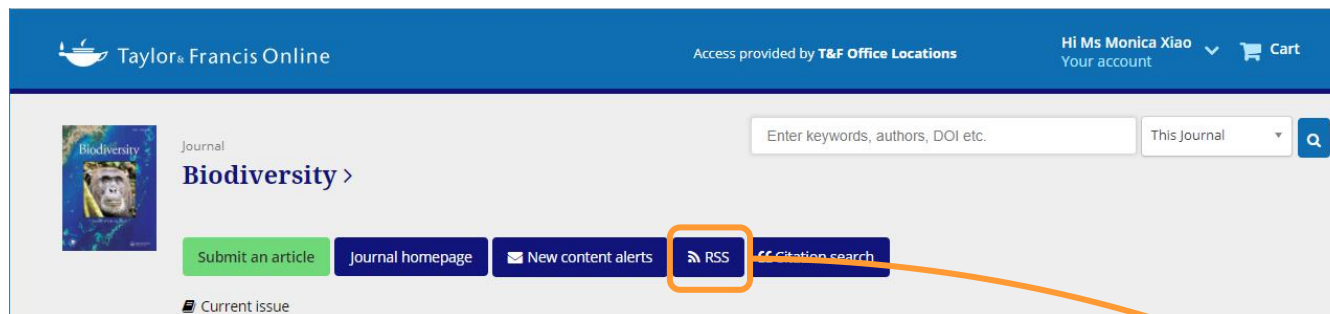
You can set up alerts for additional titles simply by clicking on the *Alert me* link on the publication pages.



Your email alert settings have been updated.



平台使用 – 期刊页面

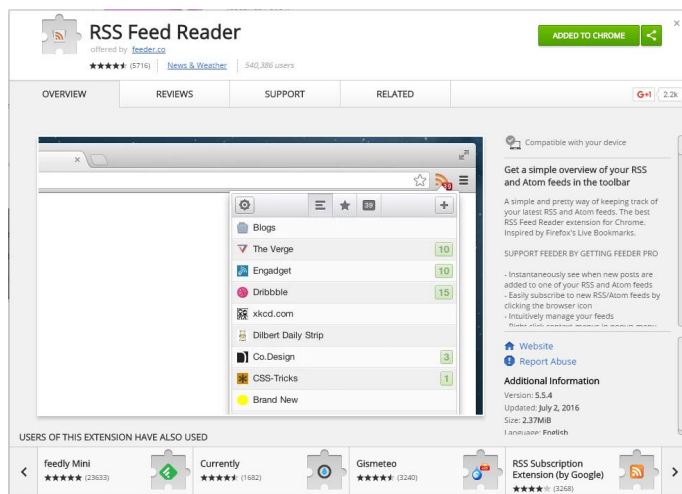


4. 点击Subscribe按钮，完成订阅。
浏览器右上角将会提示：



开启RSS功能，需要先安装RSS订阅扩展插件
以Chrome浏览器为例：

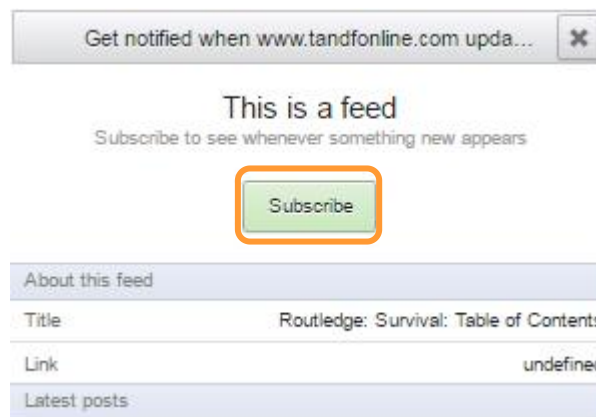
1. 找到RSS Feed Reader下载并安装：



2. 浏览器右上角找到标识：



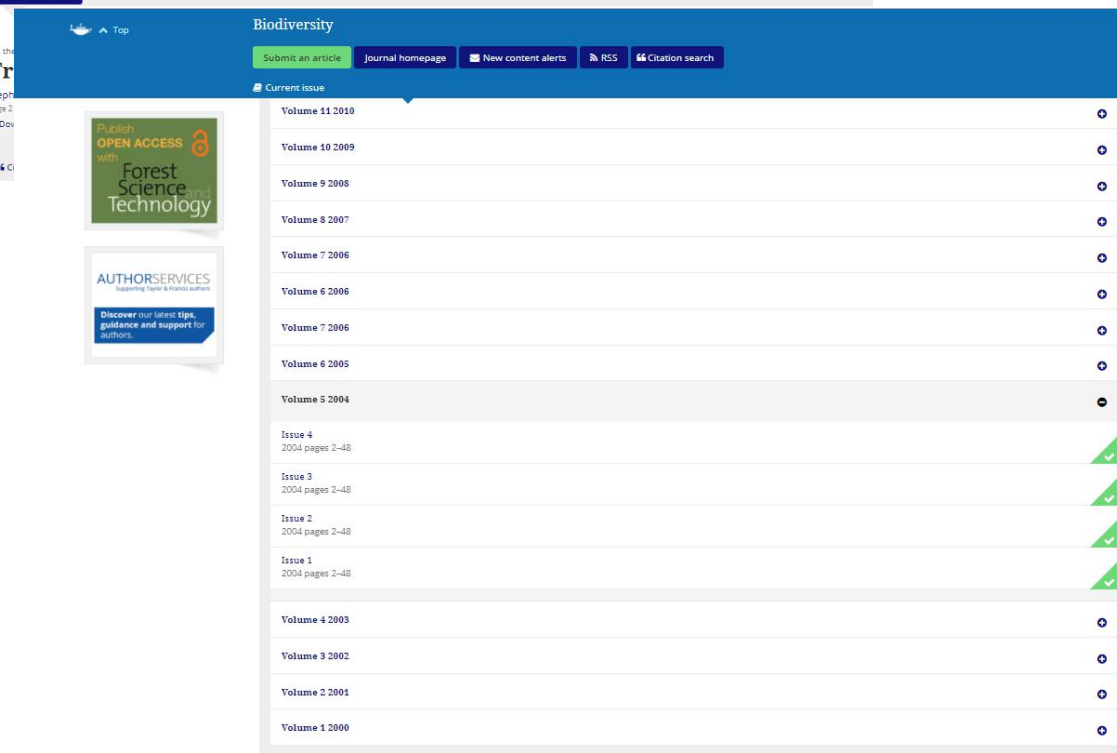
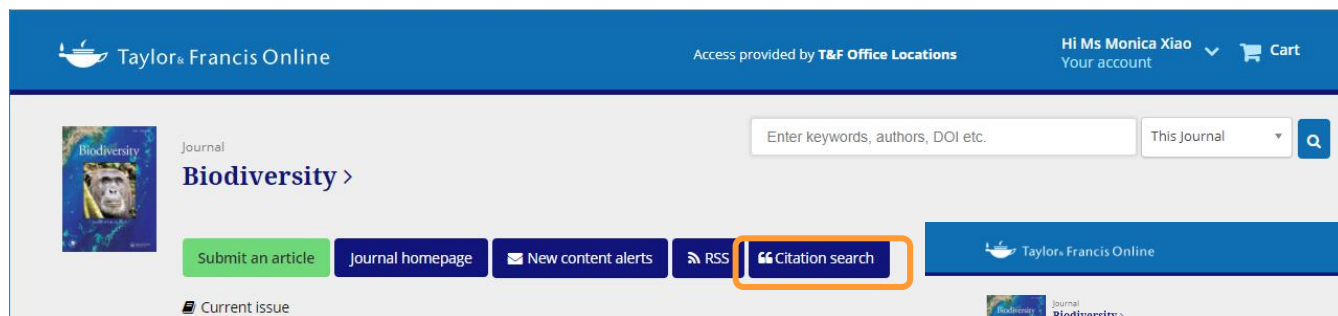
3. 点击期刊页面RSS订阅按钮，
页面将弹出如下对话框



5. 点击浏览器右上角标识，即可查看
推送内容：



平台使用 - 期刊页面



引文信息搜索:

Citation search

Volume **5** ← 卷次

Issue **1** ← 期次

Start page **1** ← 论文起始页

Search

- 论文起始页码输入正确，直接转到文章页面；
- 论文起始页码输入错误，将转到期刊卷期次列表页面，查找所需论文。





欢迎提问

Taylor & Francis 产品专员 – 肖苒苒
QQ : 1344274945
Tel: 13910867122
E-mail: Monica.Xiao@tandfchina.com



关注学术，
关注 **TAYLOR & FRANCIS!**

中文网站 : www.tandfchina.com

Taylor & Francis Group
an informa business

