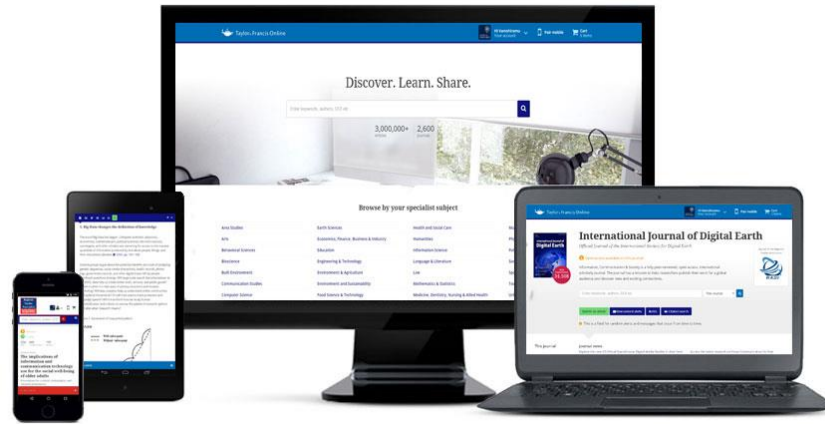




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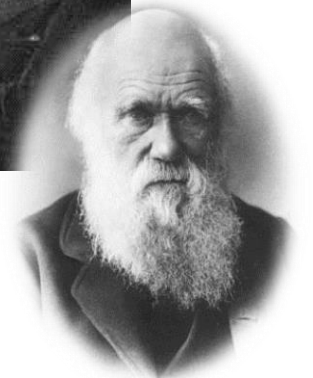
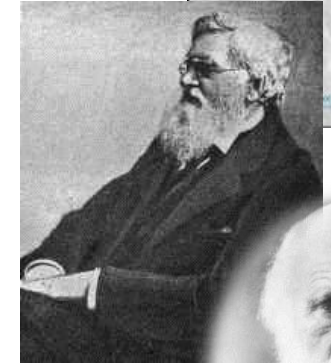
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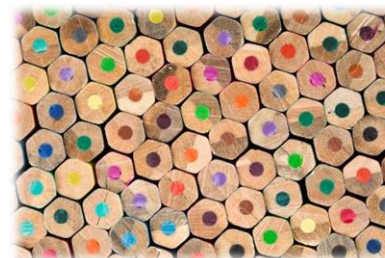
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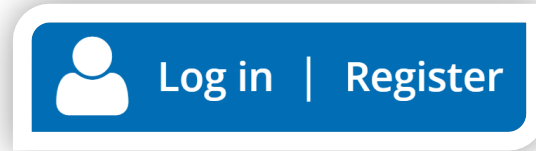
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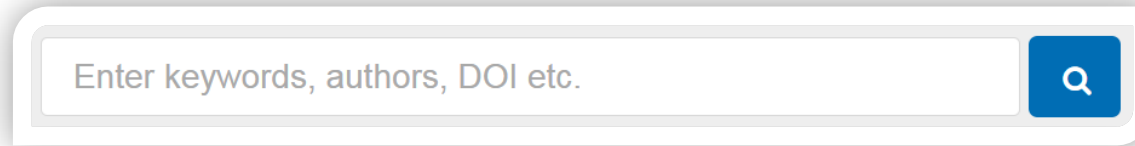


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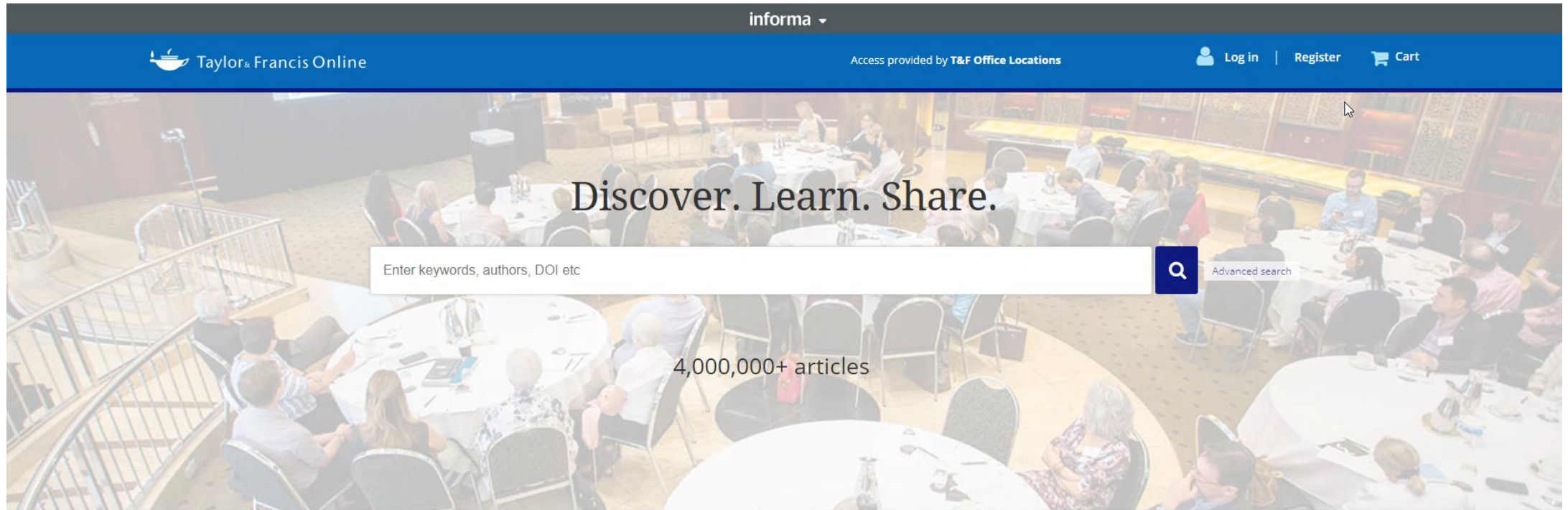


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Professor Karl Peltzer, Shandir Ramlagan Master's Degree, Dr Mohamed Salim Khan & Dr Bernhard Gaede  
SAHARA-J: Journal Of Social Aspects Of HIV/AIDS | Published Online: 28 Feb 2012

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Pengfei Zhang, Yinwei You, Yuan Song, Youzhi Wang & Long Zhang  
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Quantification of LST and CO<sub>2</sub> levels using Landsat-8 thermal bands on urban environment >  
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2893

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Article

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Timothy Wunder

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

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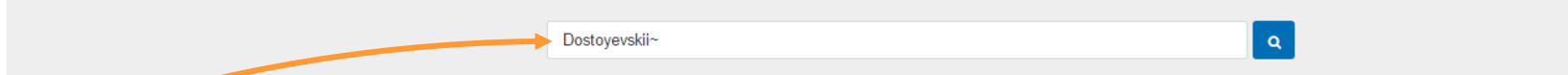
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580



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Articles (2854) Databases (3)

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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 Vera

Dutch Crossing Published Online: 14 Oct 2016

Dostoyevskii~

Dostoyevskii

Dostoyevsky

Dostoyevski



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Articles (3622)

Databases (5)

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Biodiversity and studies of marine symbiotic siphonostomatoids off South Africa >

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Never

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biodiversity +Africa





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## ABSTRACT

A planar cartogram 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 info-graphic tools that specialize in

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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

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ORIGINAL ARTICLE  
**RETRACTED ARTICLE: Serum protein biomarkers screening in patients with ischemic stroke by LC-MS/MS\***  
Xue-jun Wei,<sup>1,4</sup> Feng Li,<sup>1,4</sup> Feng-yong Yang,<sup>1,4</sup> and Chong-hao Duan<sup>1,4</sup>  
<sup>1</sup>Department of Intensive Care Unit and; <sup>2</sup>Department 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 tandem mass spectrometry (LC-MS/MS) in patients with acute ischemic stroke (AIS). Abstract in the study period, data from 40 AIS patients and 40 age-matched controls were selected for screening study. The selected protein associations with disease risk were confirmed using enzyme-linked immunosorbent assay (ELISA) testing of the remaining stroke cases and controls. The specific biomarkers diagnosis was supported through receiver operating characteristic (ROC) curve analysis. Patients versus control levels differences were supported for 10 proteins (total  $P < 0.05$ ). The association of mannose-binding lectin (MBL) with disease (odds ratio = 0.25,  $P < 0.05$ ). The association of mannose-binding lectin (MBL) with disease (odds ratio = 0.25,  $P < 0.05$ ) was confirmed using ELISA in replication studies. Based on the ROC curve, MBL with a concentration of MBL is a suitable marker to support the diagnosis of ischemic cerebral infarction (sensitivity = 0.812, specificity = 0.724, CI: 0.724-0.876). In multivariate analysis, there was an increased risk of AIS associated with MBL levels  $\geq 1050 \mu\text{g/L}$  (OR 4.76, 95% CI: 1.39-16.12) after adjusting for possible confounding factors. This biomarker 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 stroke patients will die and 7.5 million stroke survivors every year. 15%–30% of survivors will be permanently disabled, which has exceeded heart disease to become the second leading cause of death among 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 attracted 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

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### ABSTRACT

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#### 2. Discretization on spheres

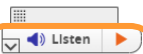
#### 3. Validation

#### 4. Applications

#### 5. Conclusions

### Supplemental material

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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,

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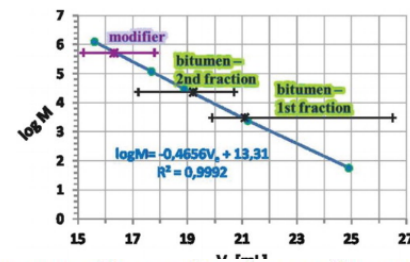
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- GRAPHICAL ABSTRACT
  - 1. Introduction
  - 2. Materials and methods
  - 3. Results and discussion
  - 4. Conclusions

### 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.



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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 initially in a position to open and the most attractive facility to open. The other firm was in a position to open and attempt to maximize its own profit by adjusting its location. The market 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

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

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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

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3. Validation

4. Applications

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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.

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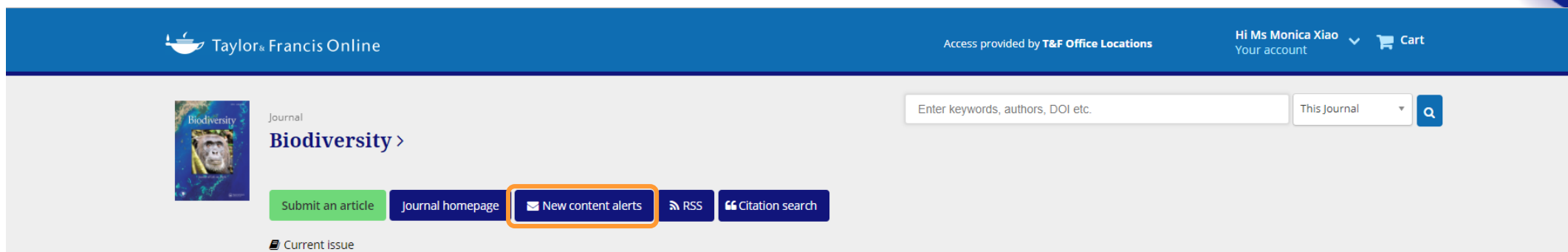
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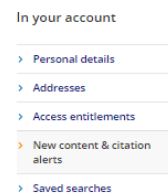
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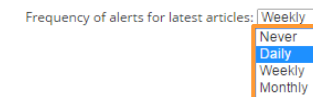
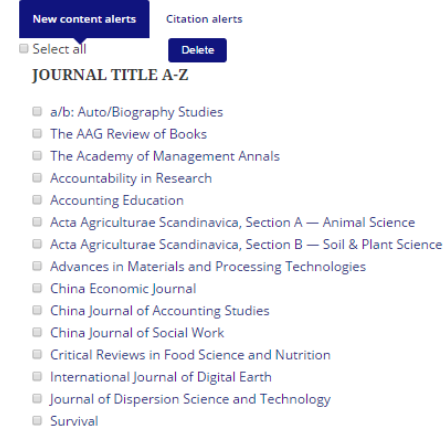
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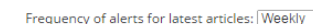
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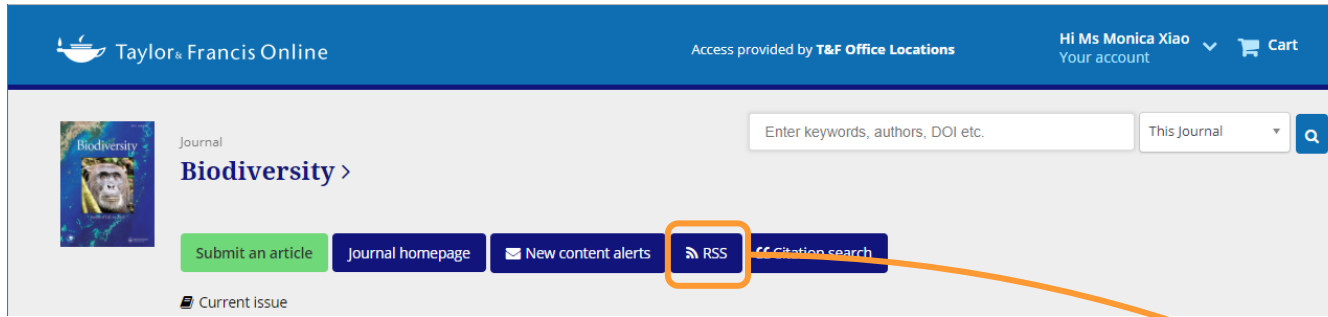
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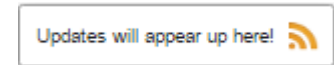
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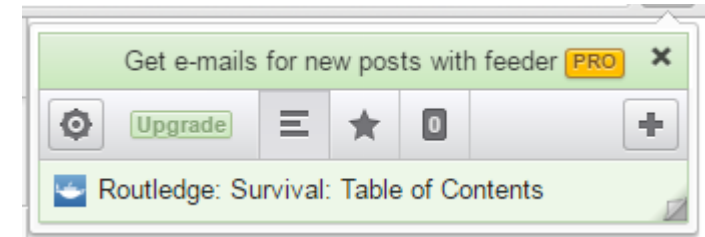
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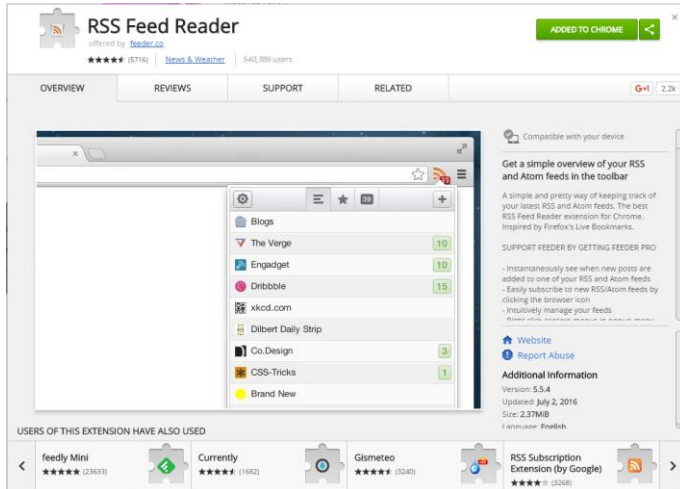


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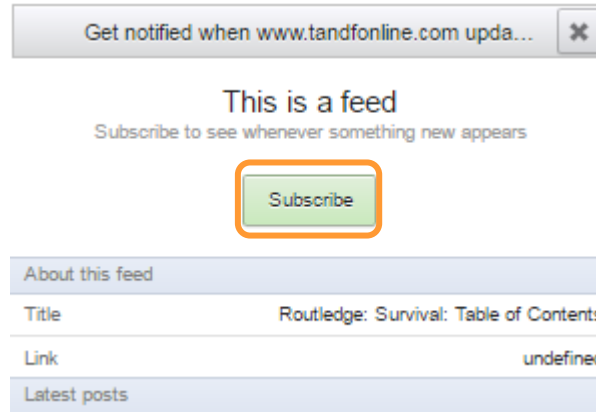
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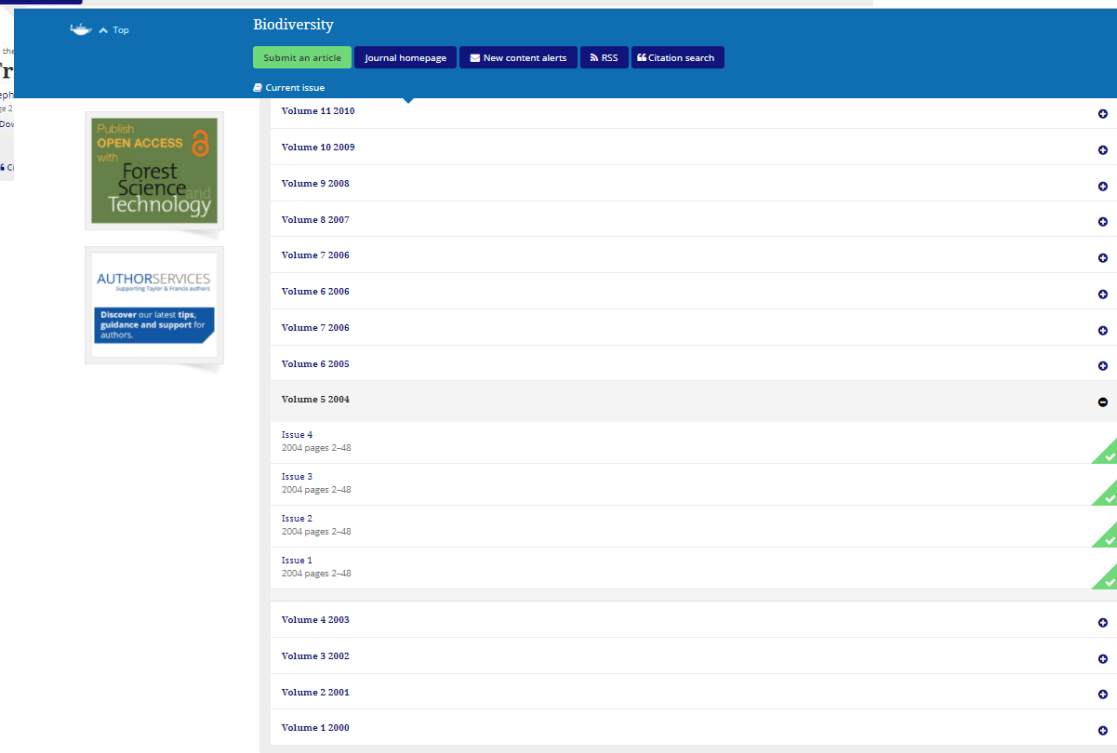
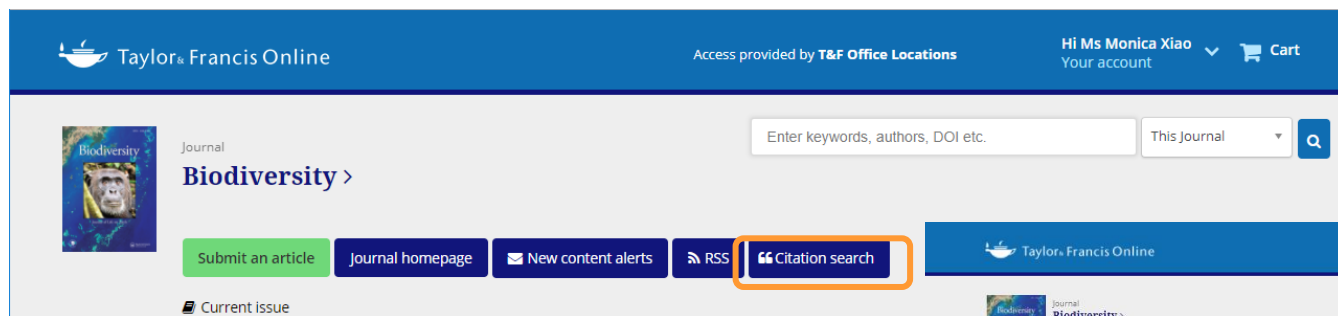
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