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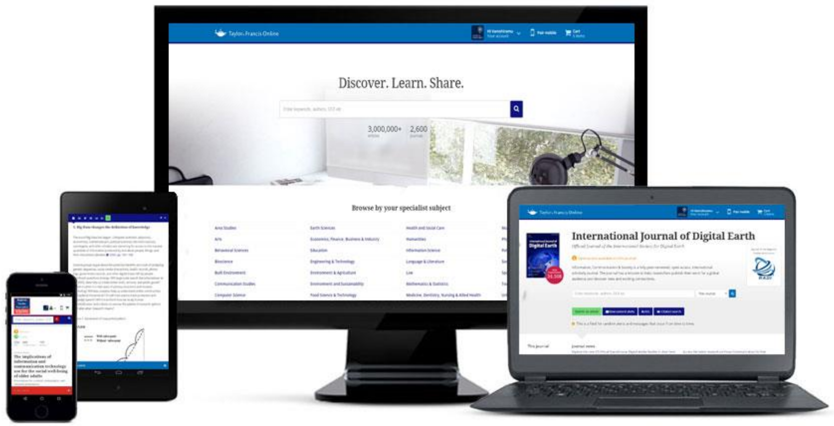


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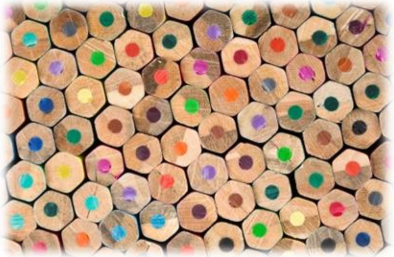


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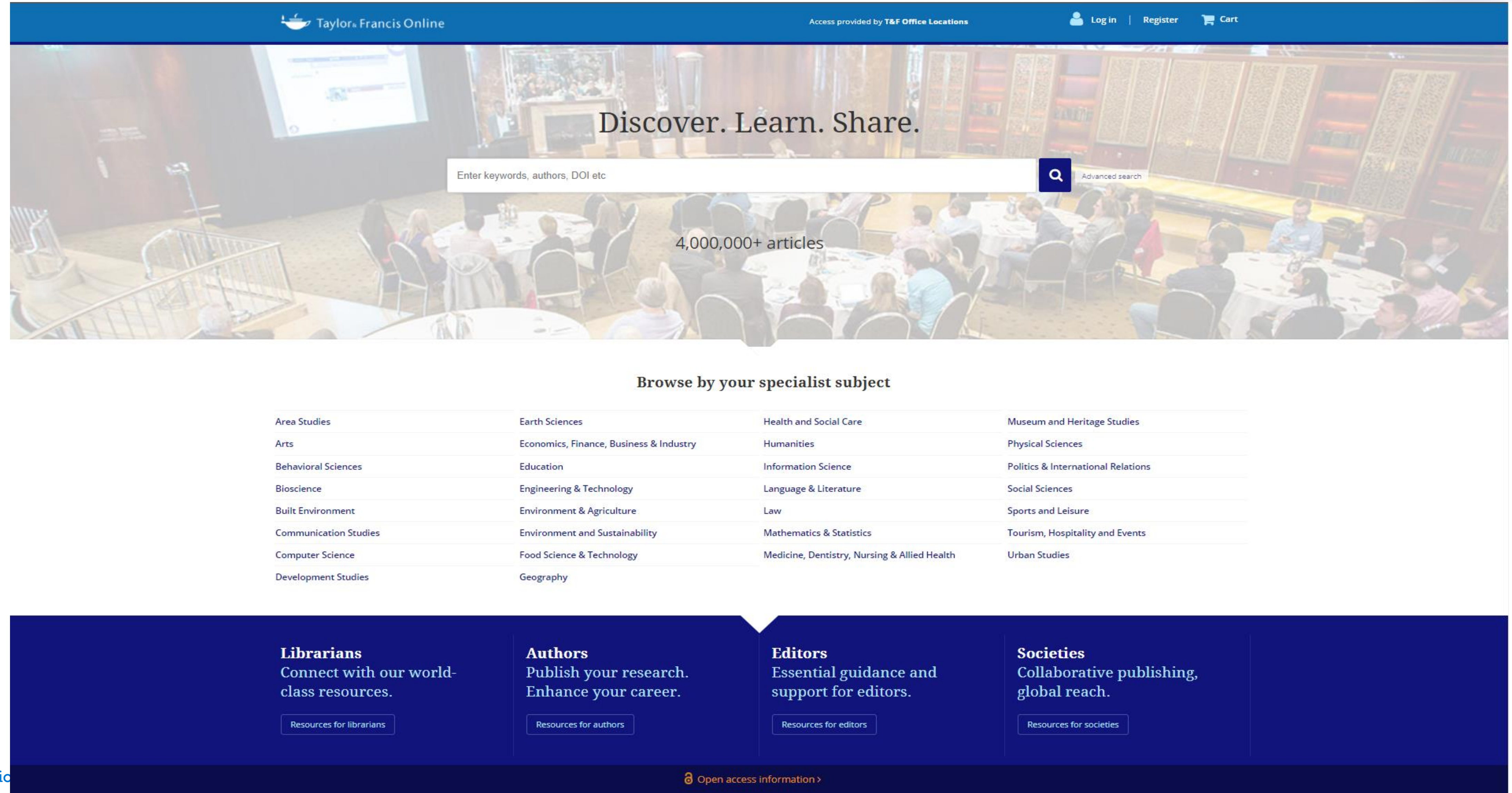


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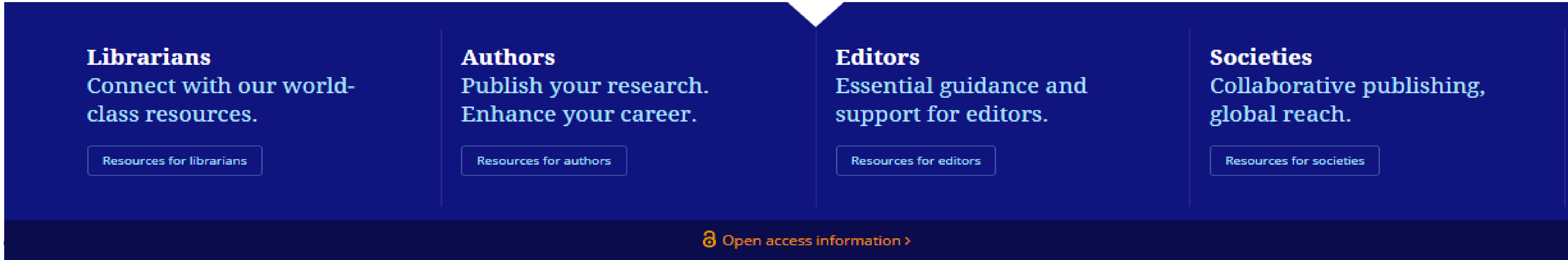


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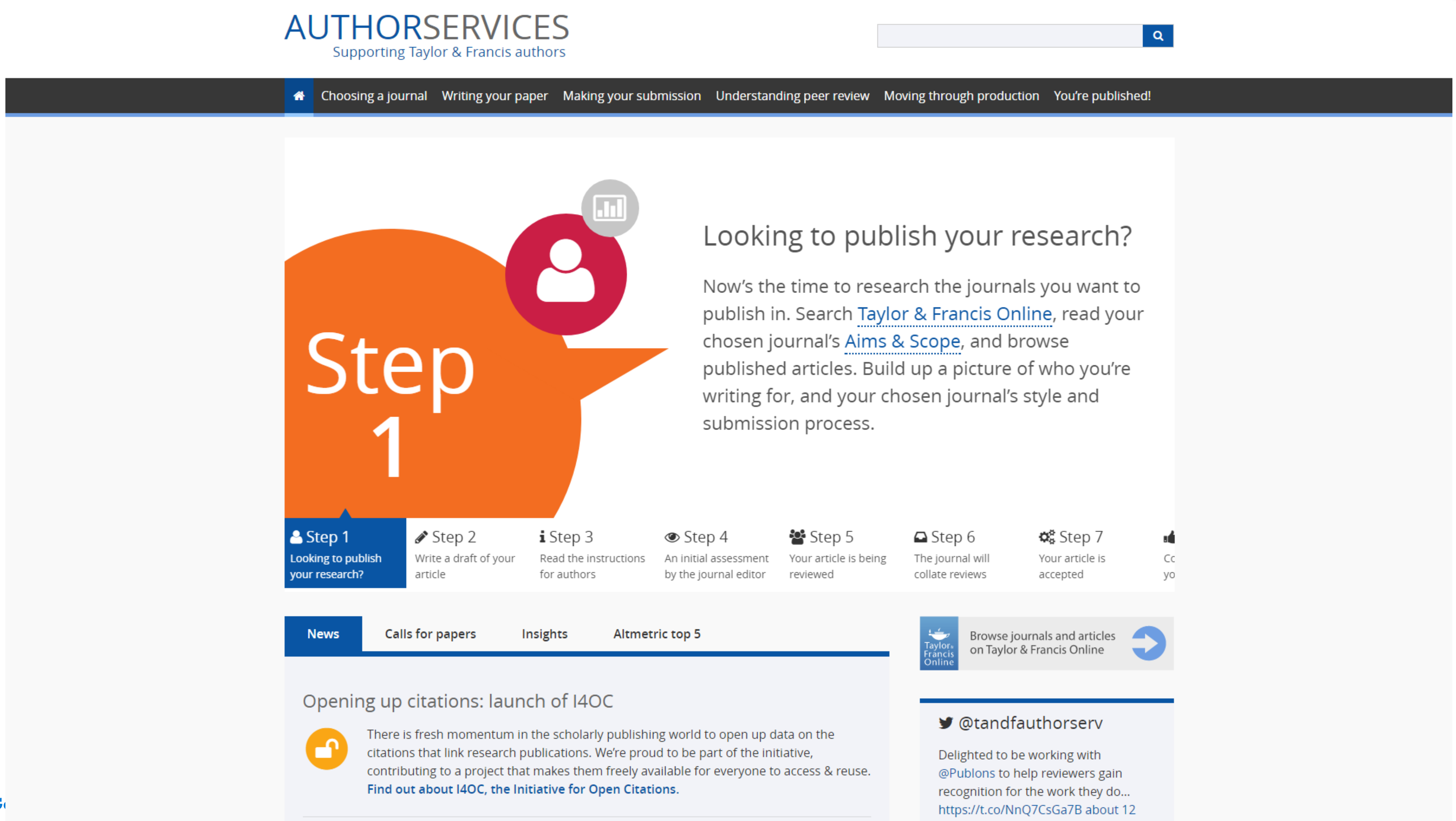


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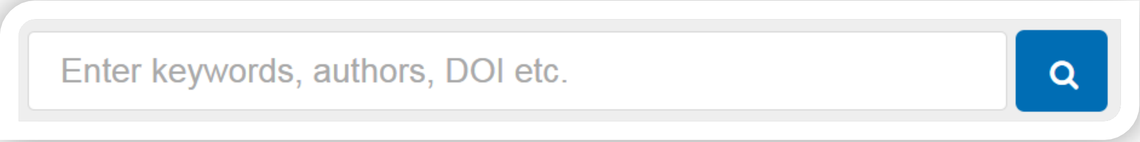


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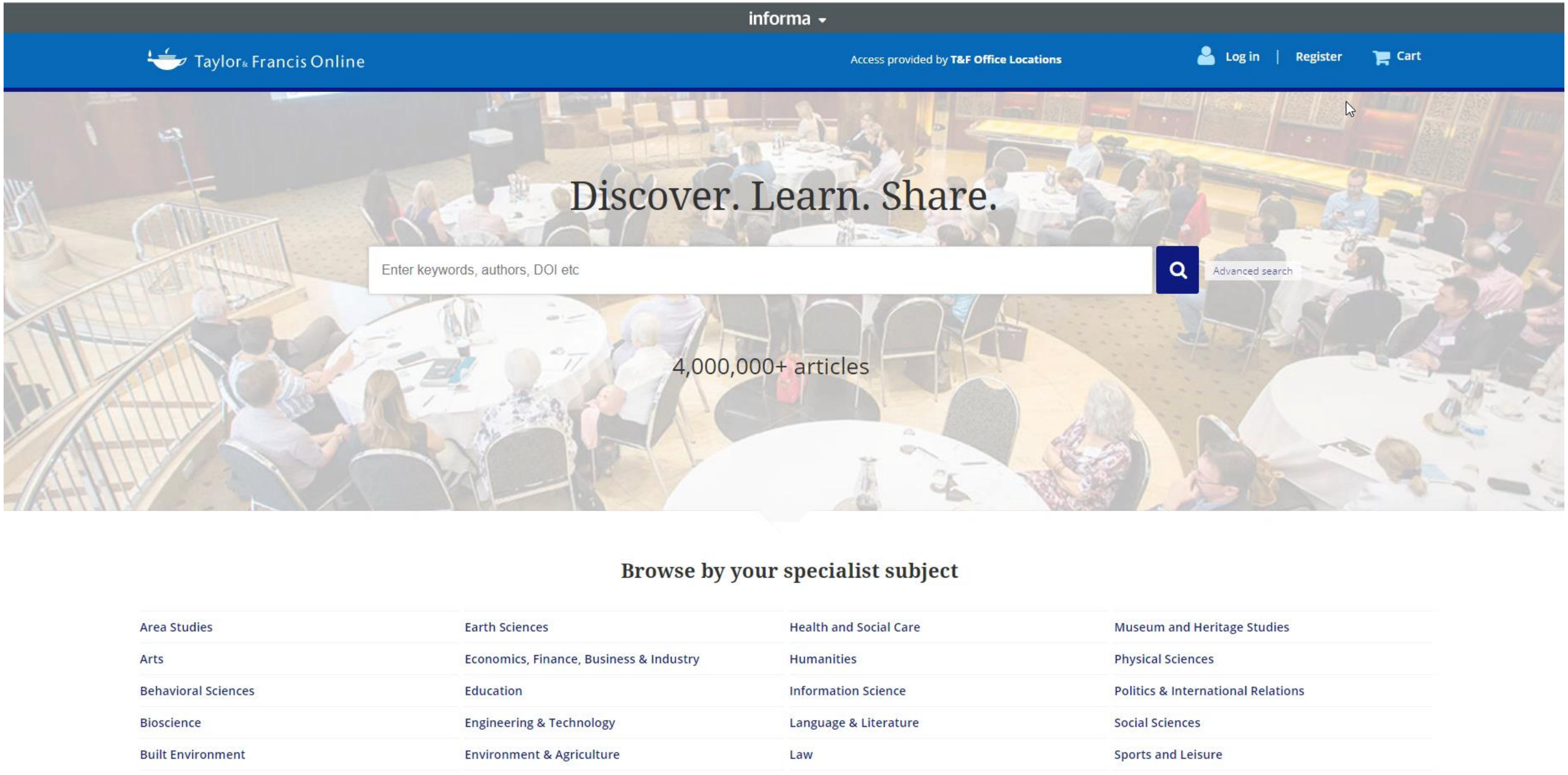


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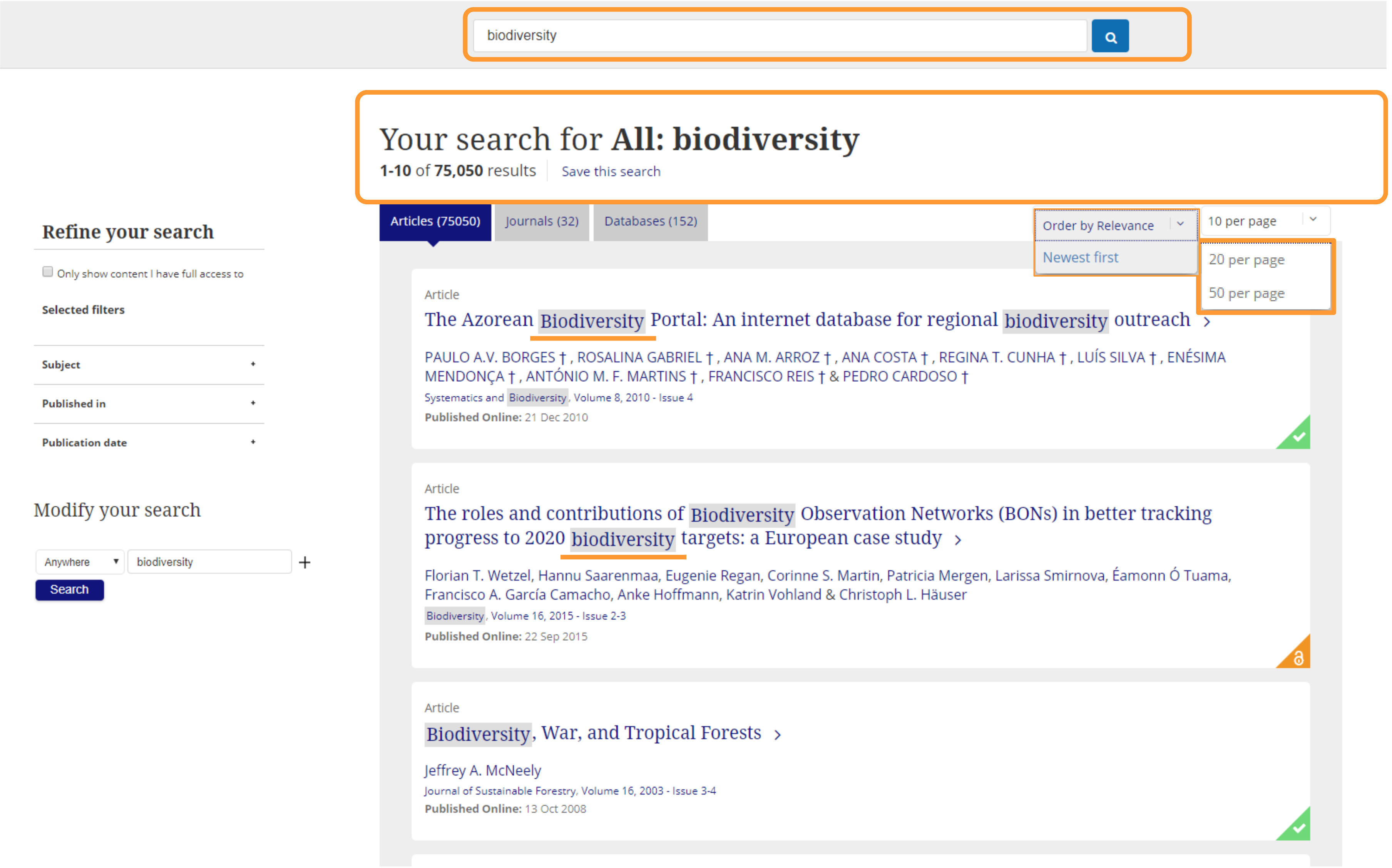


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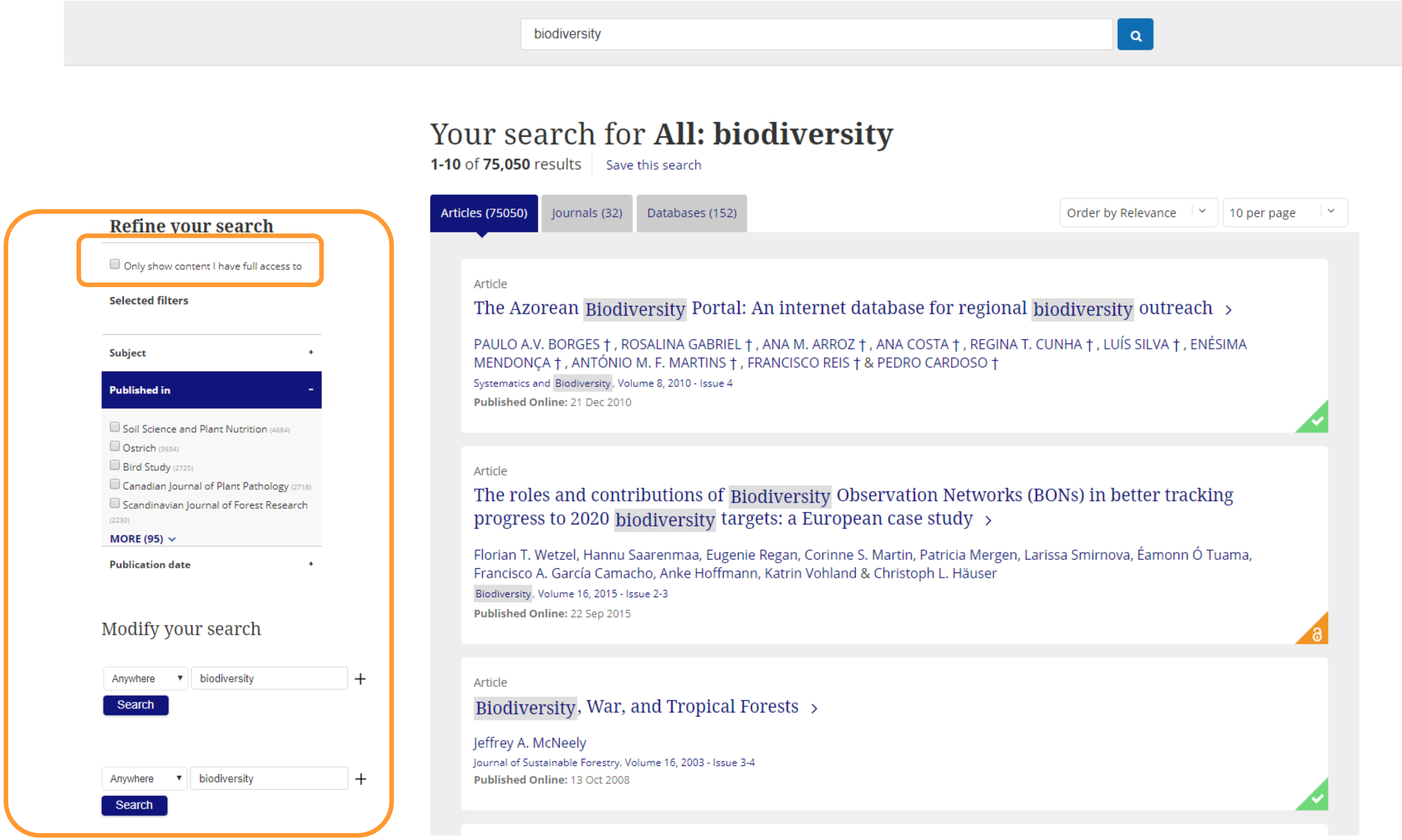


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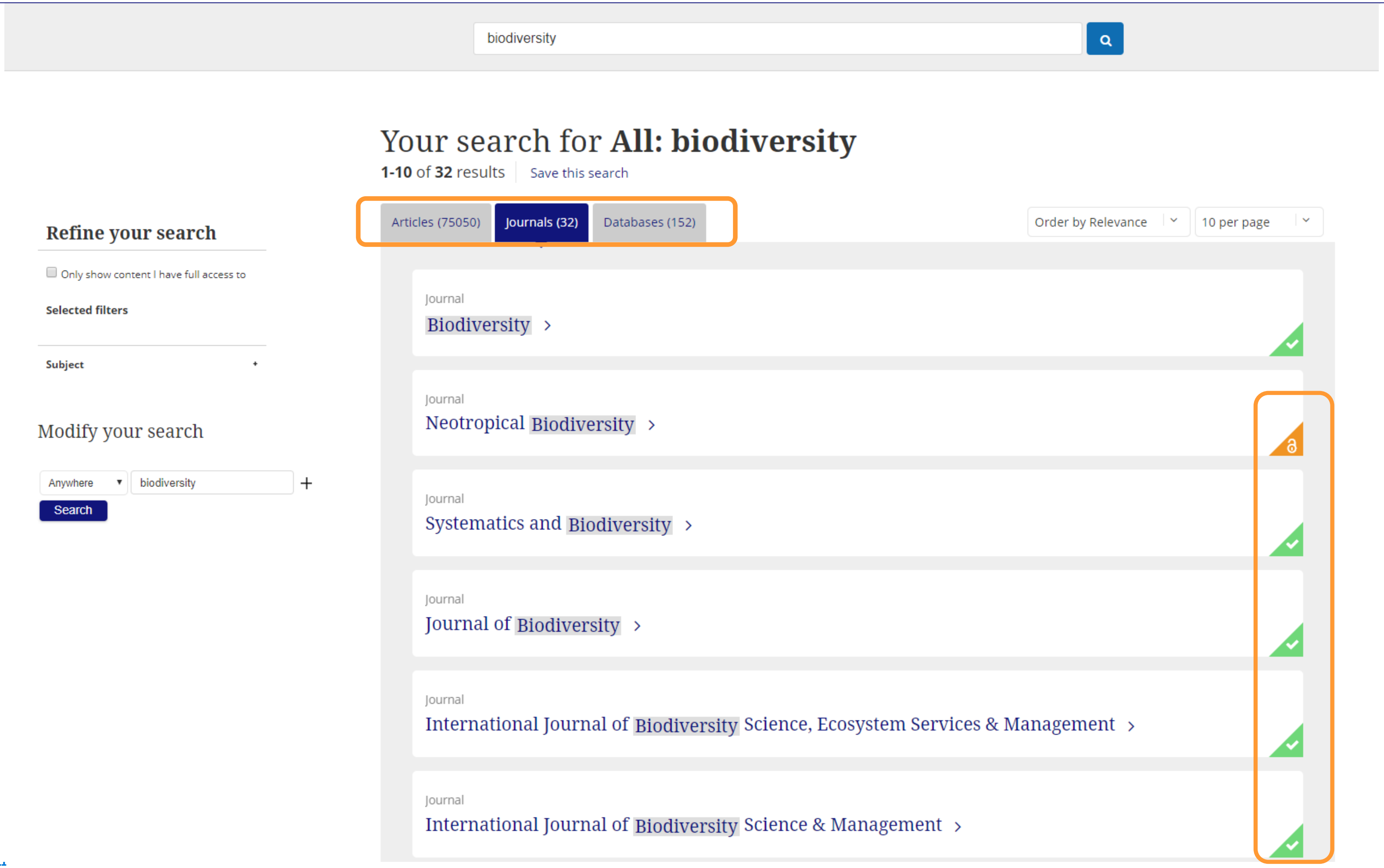


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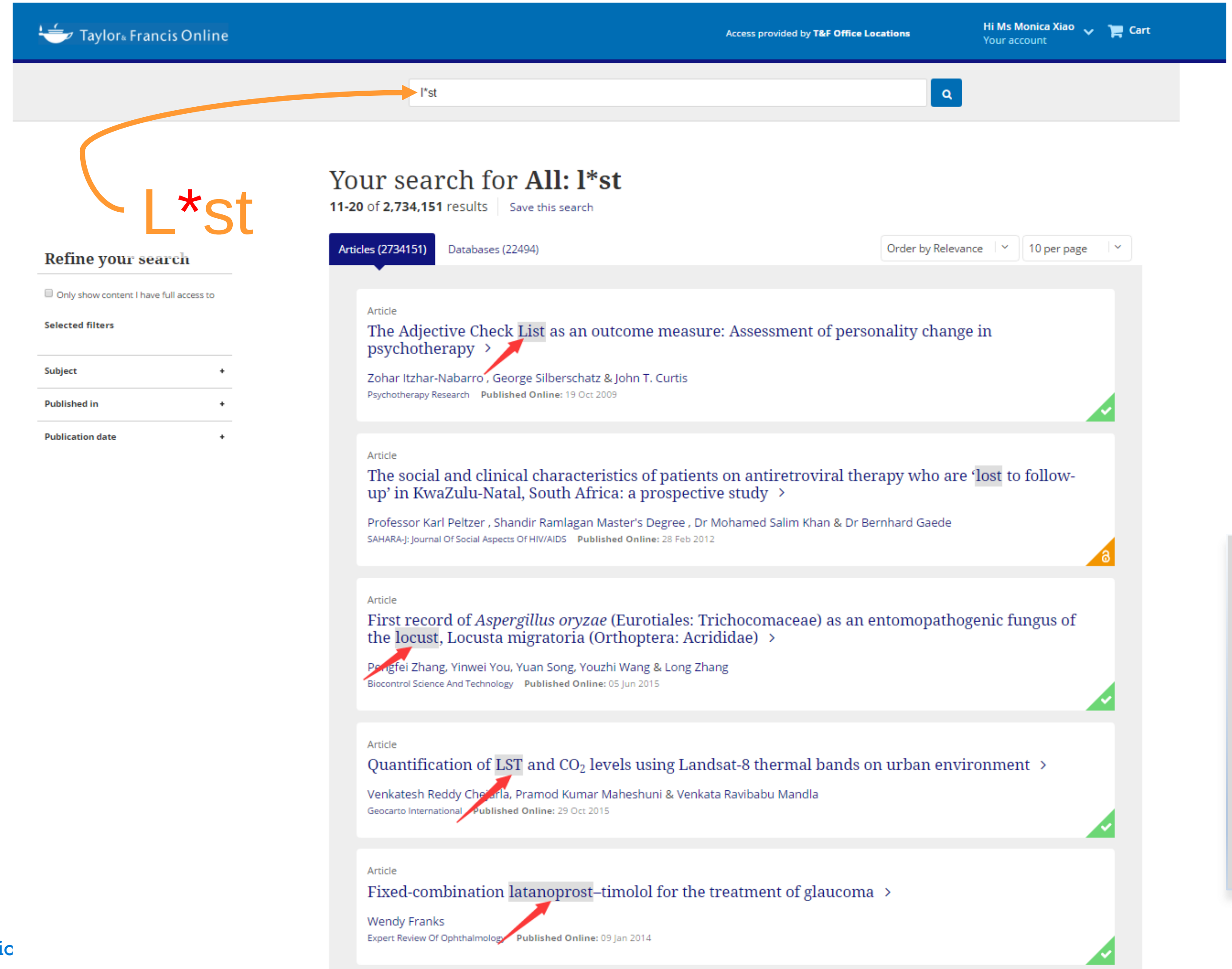


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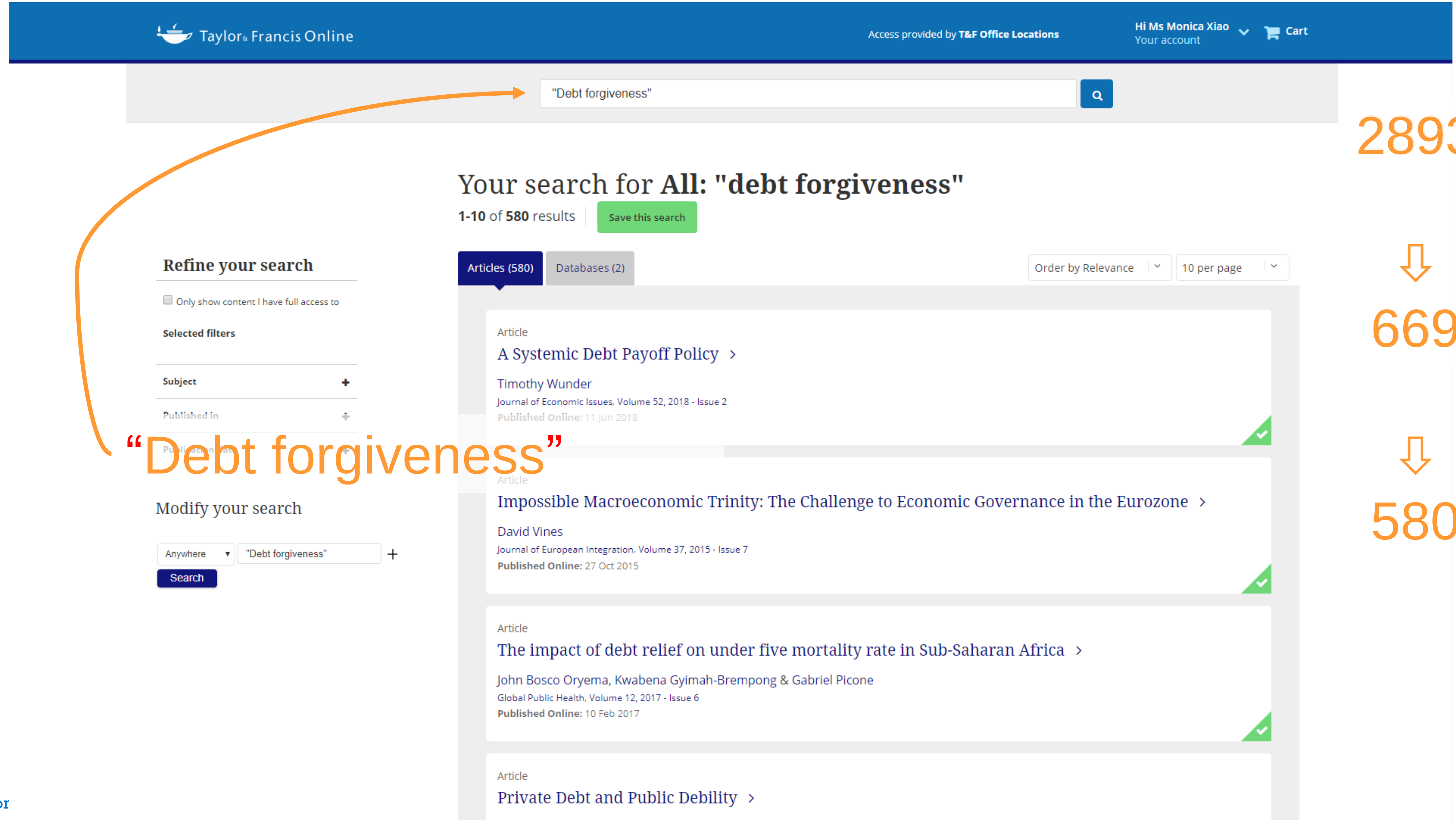


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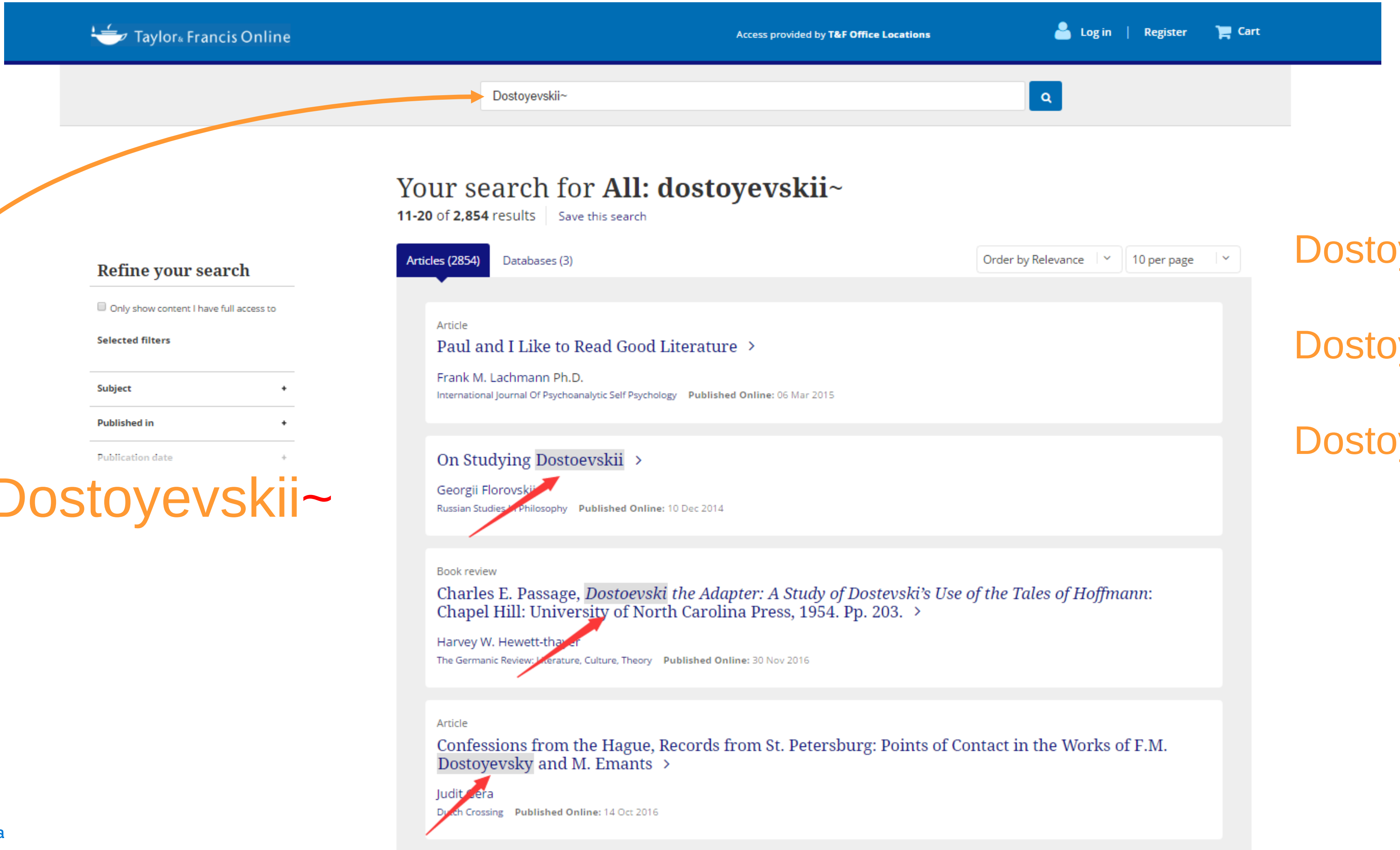


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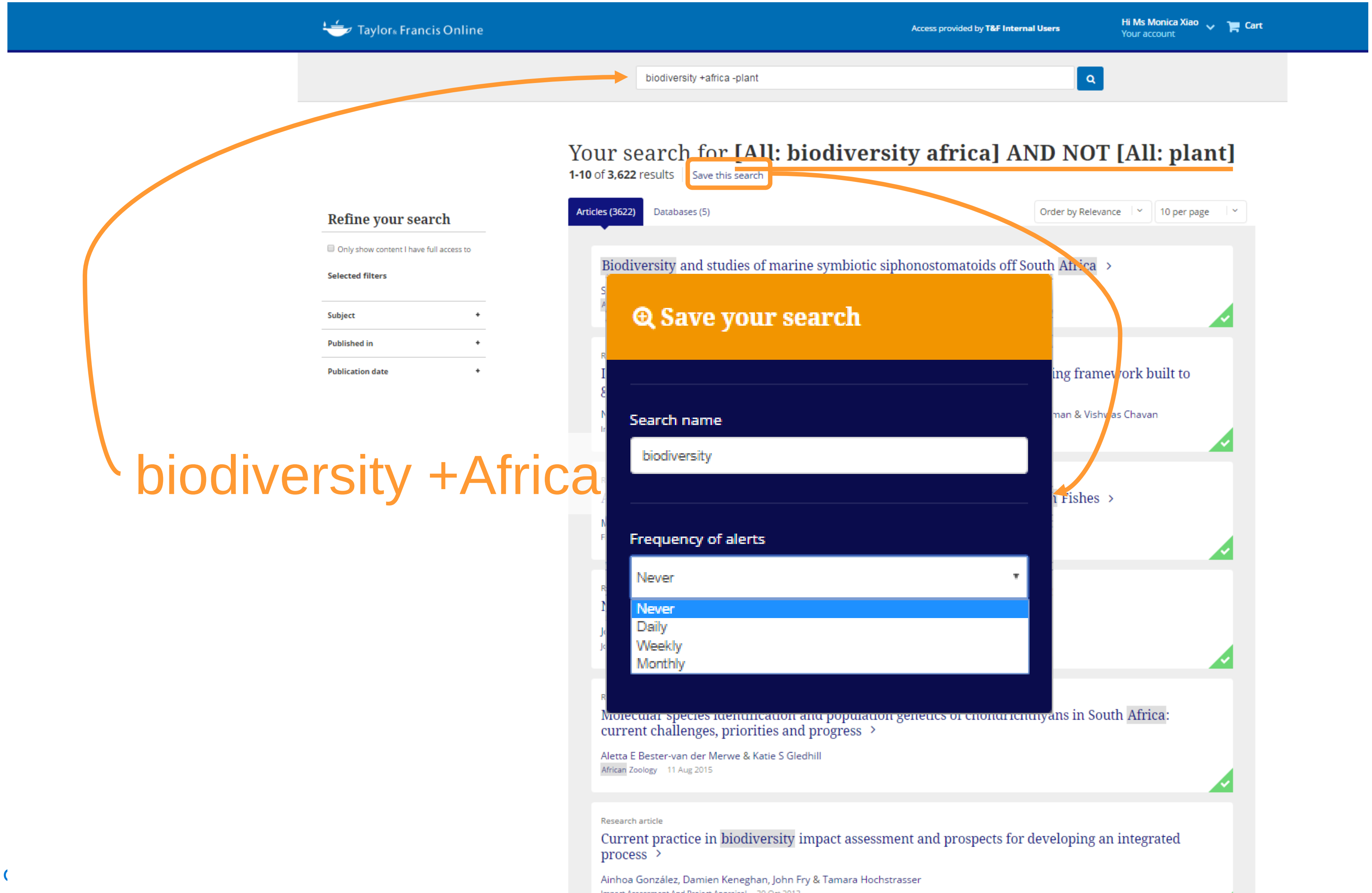


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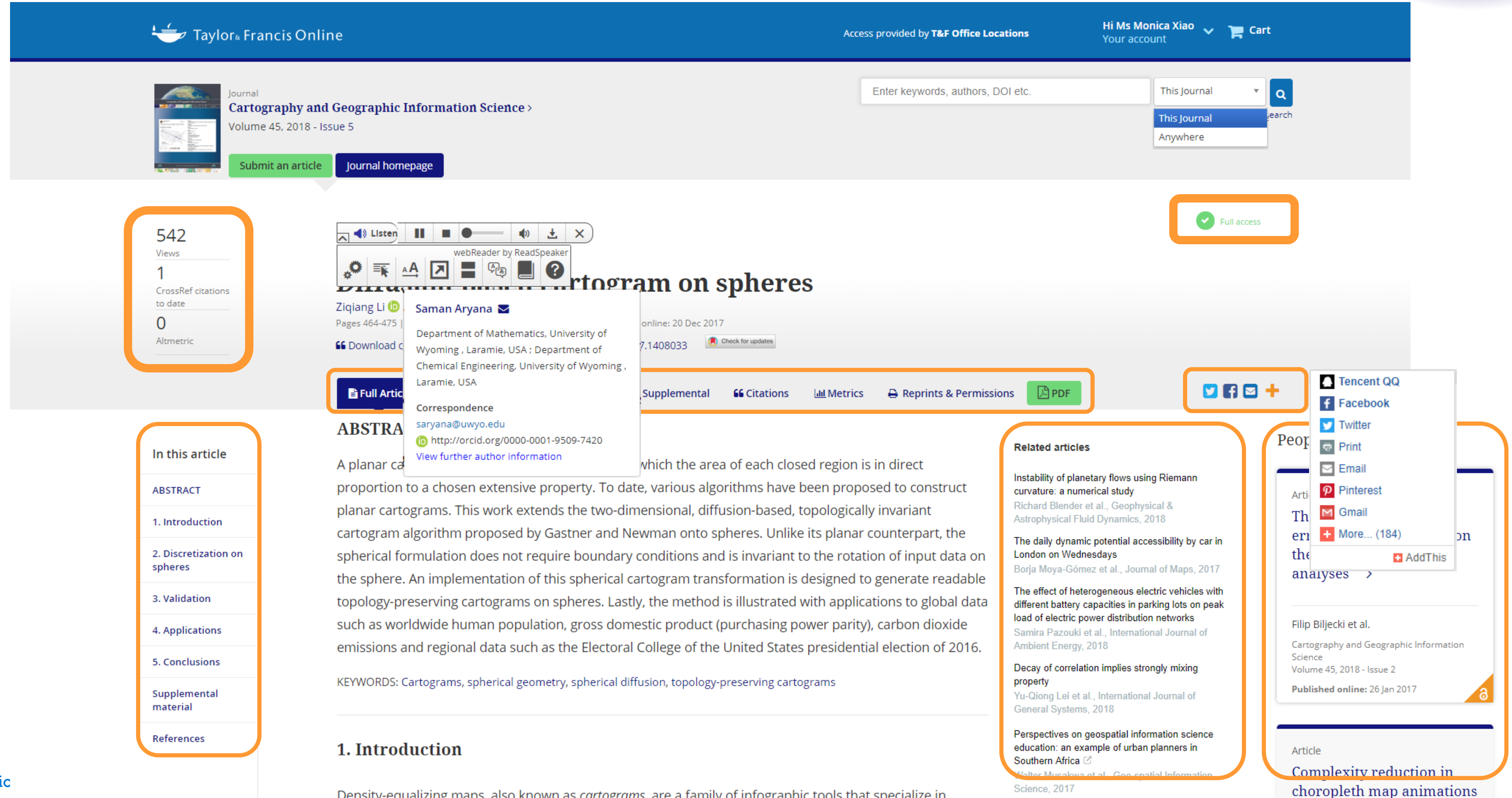


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- ABSTRACT
- 1. Introduction
- 2. Discretization on spheres
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A planar cartogram is a two-dimensional map, on which the area of each closed region is in direct proportion to a chosen extensive property. 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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## 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

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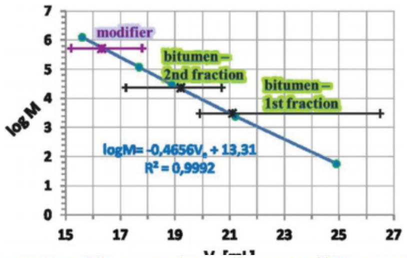
GRAPHICAL ABSTRACT
1. Introduction
2. Materials and methods
3. Results and discussion
4. Conclusions

### 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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1. Introduction
2. Model description
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## Abstract

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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 wa… …and the most attractive facility to open. The oth… …n 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


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

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$$-\sum_{l\in E} f^f x_l^f + f^h x_l^h + f^r x_l^r - \sum_{l\in E}\left(g_l^f+g_l^h+g_l^r\right)c_l$$

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## 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

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### 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



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## Diffusion-based cartogram on spheres

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

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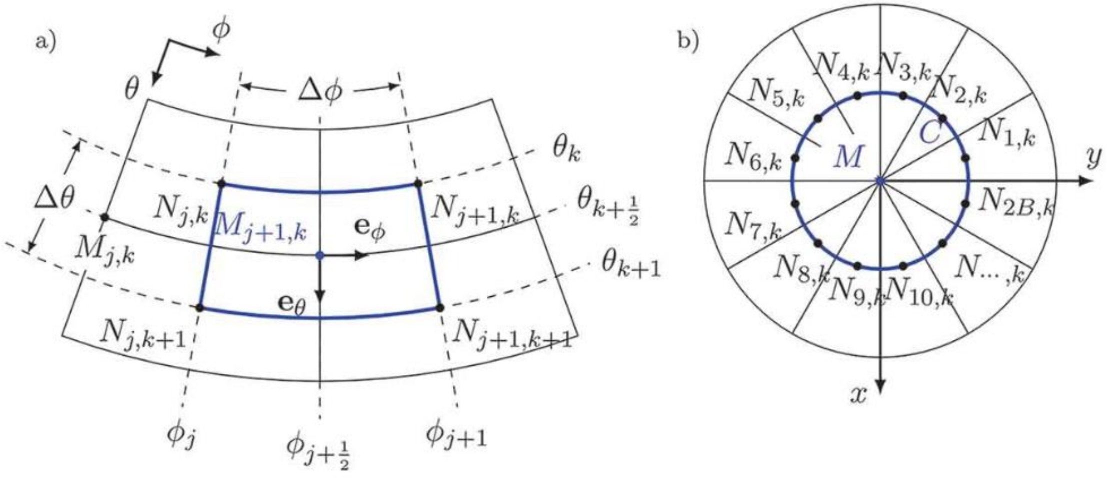
Figure 1 of 11

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.



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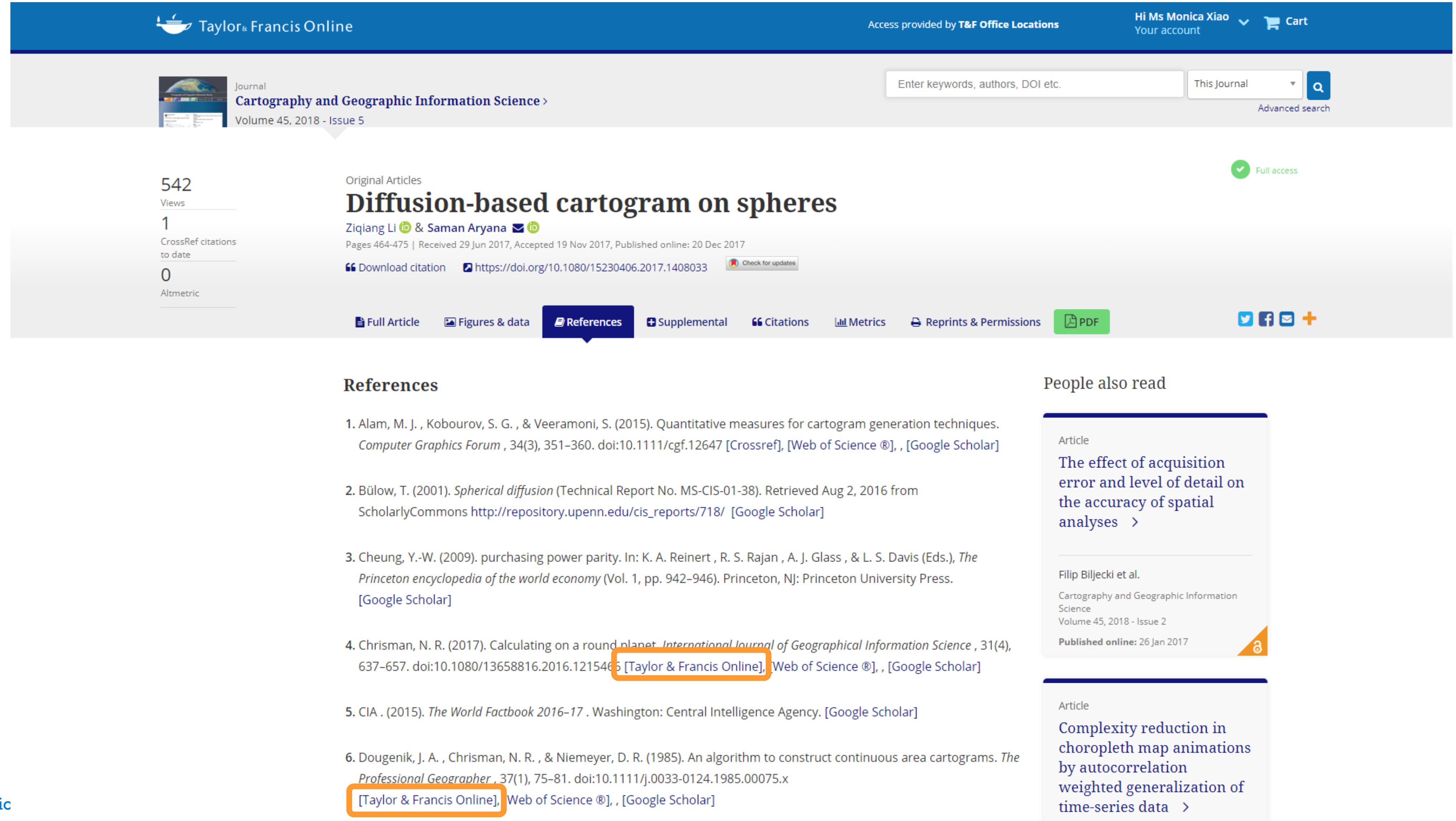


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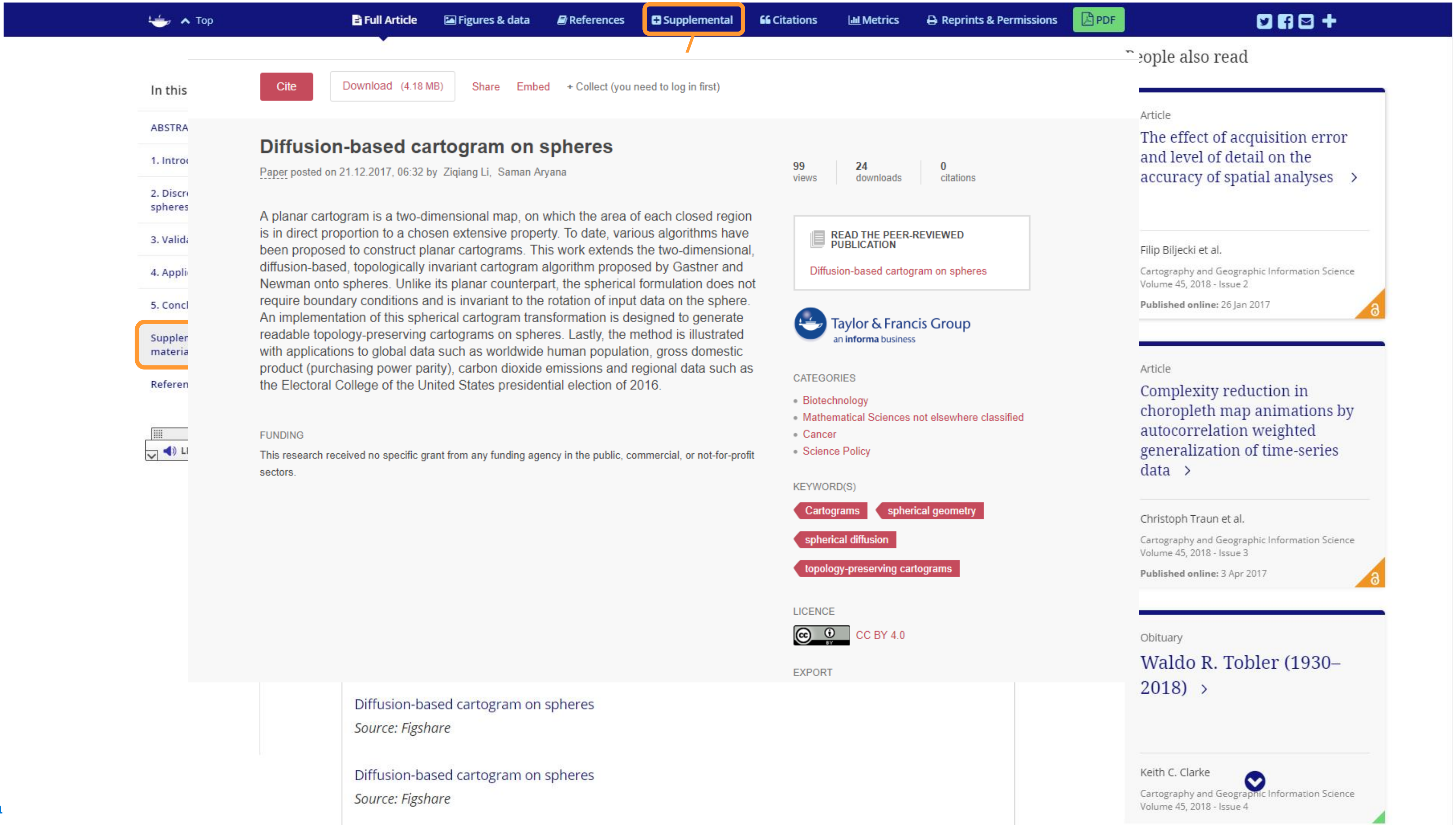


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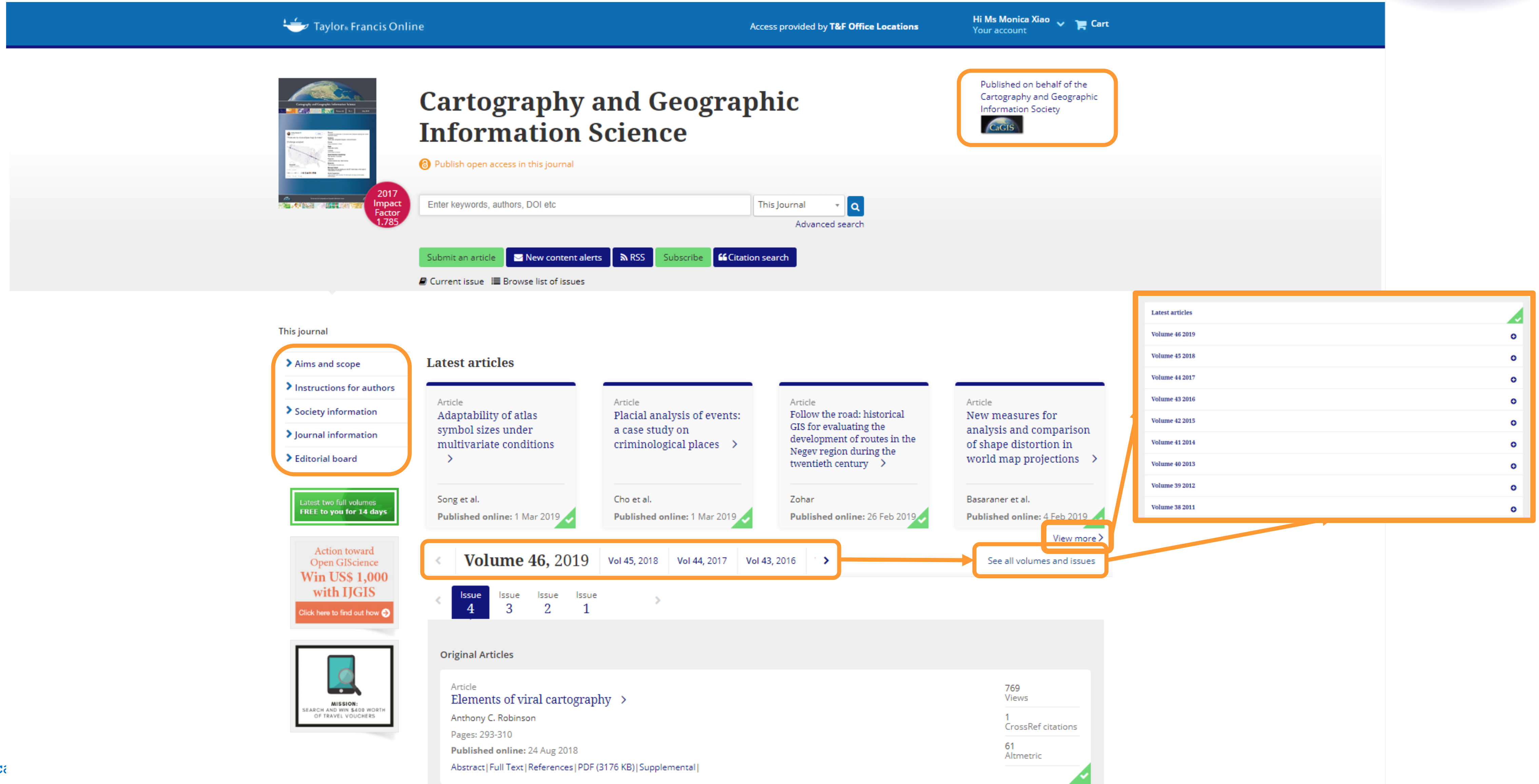


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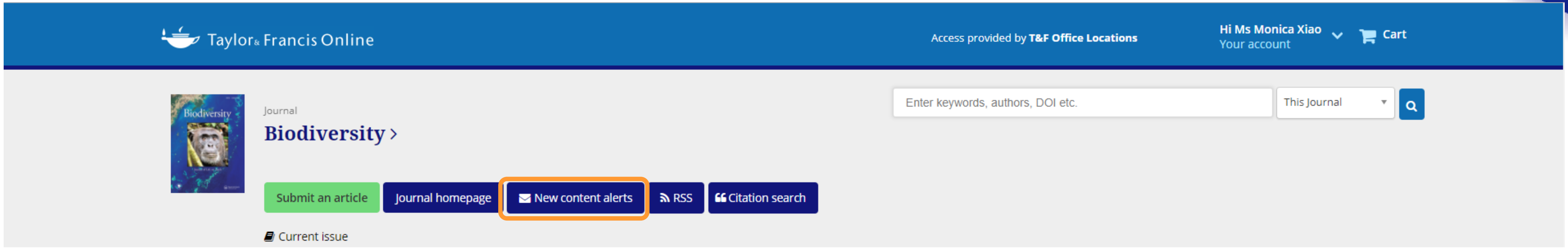


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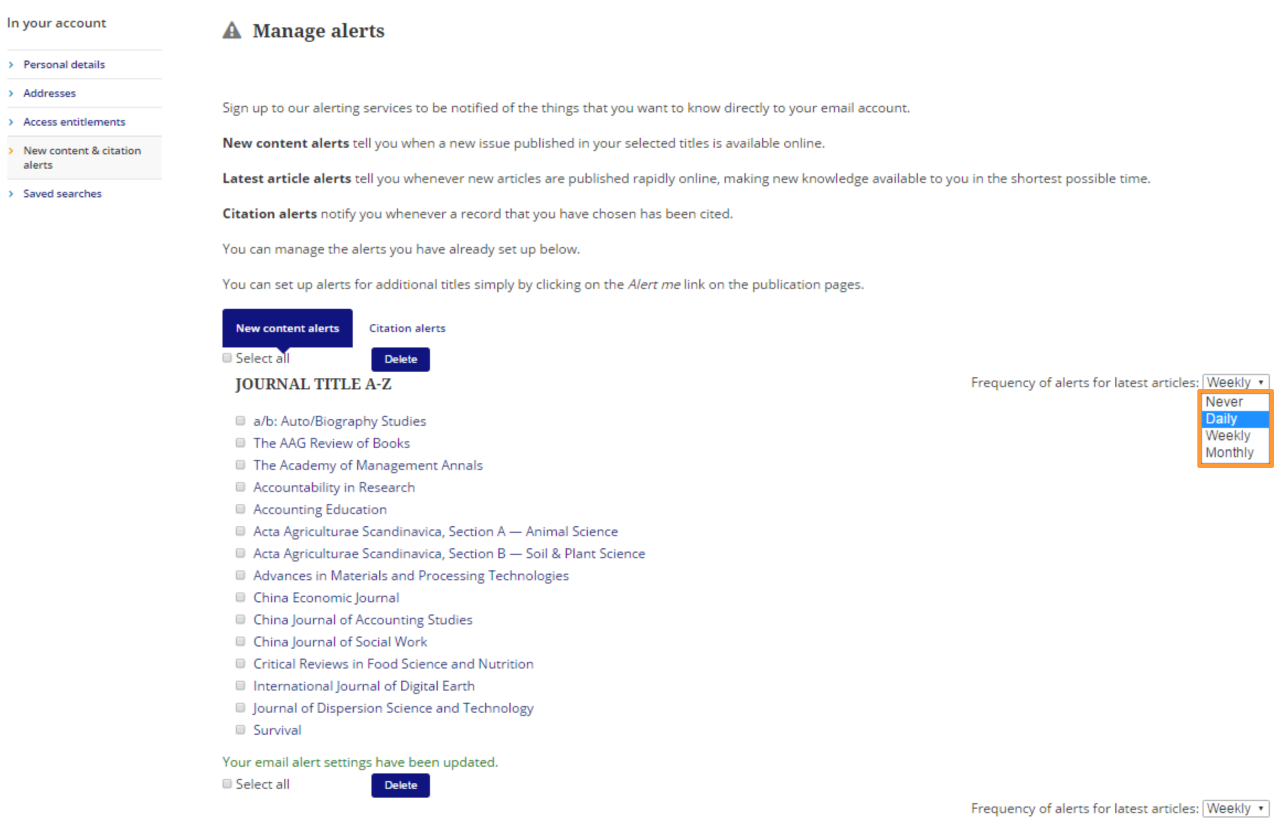


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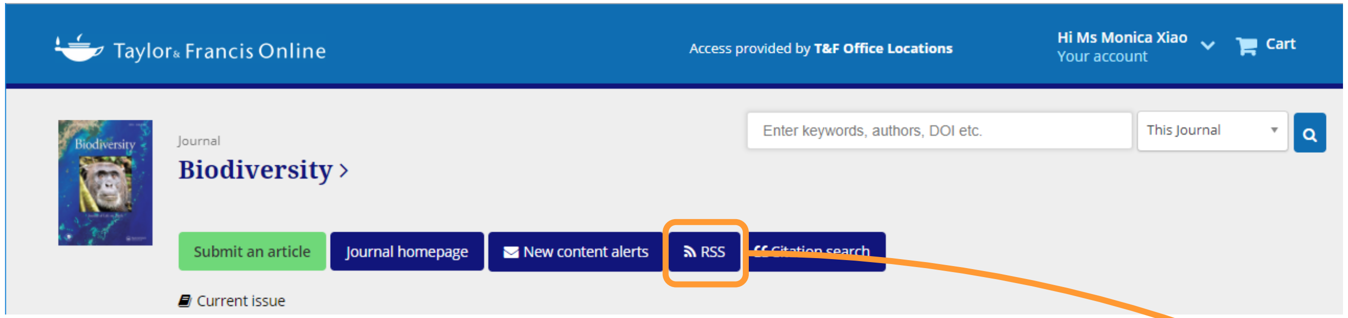


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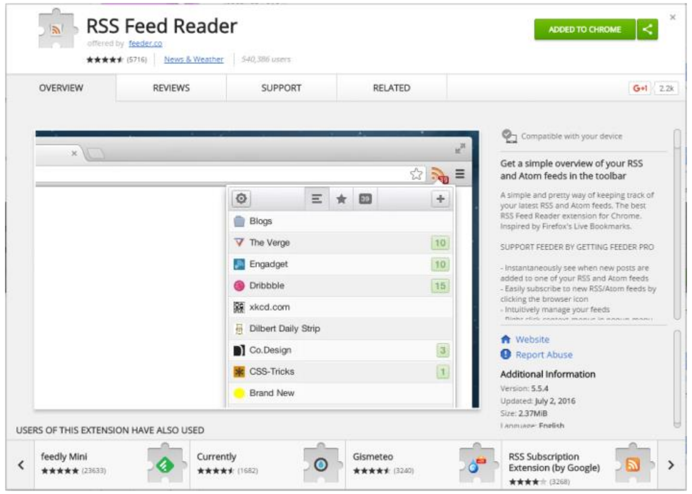
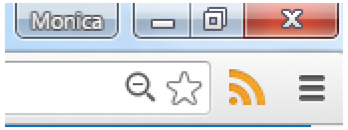
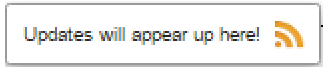



2. 浏览器右上角找到标识：




3. 点击期刊页面RSS订阅按钮，
页面将弹出如下对话框


4. 点击Subscribe按钮，完成订阅。
浏览器右上角将会提示：




5. 点击浏览器右上角标识，即可查看
推送内容：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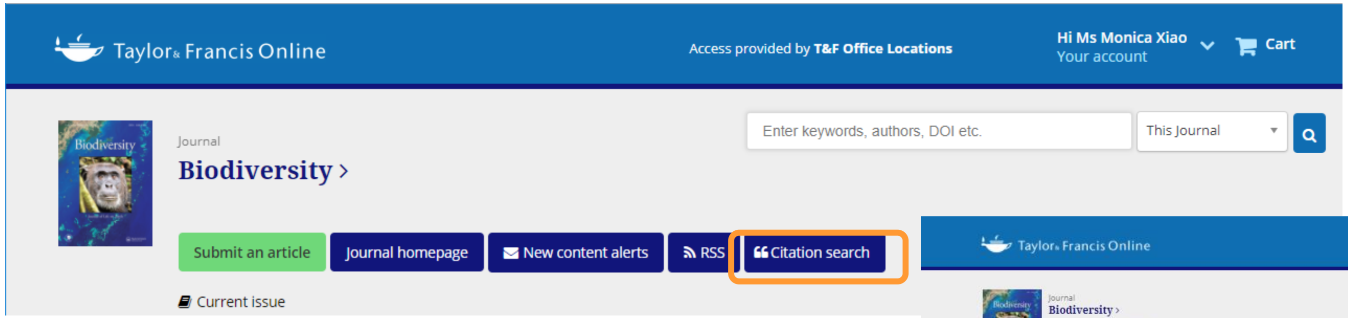
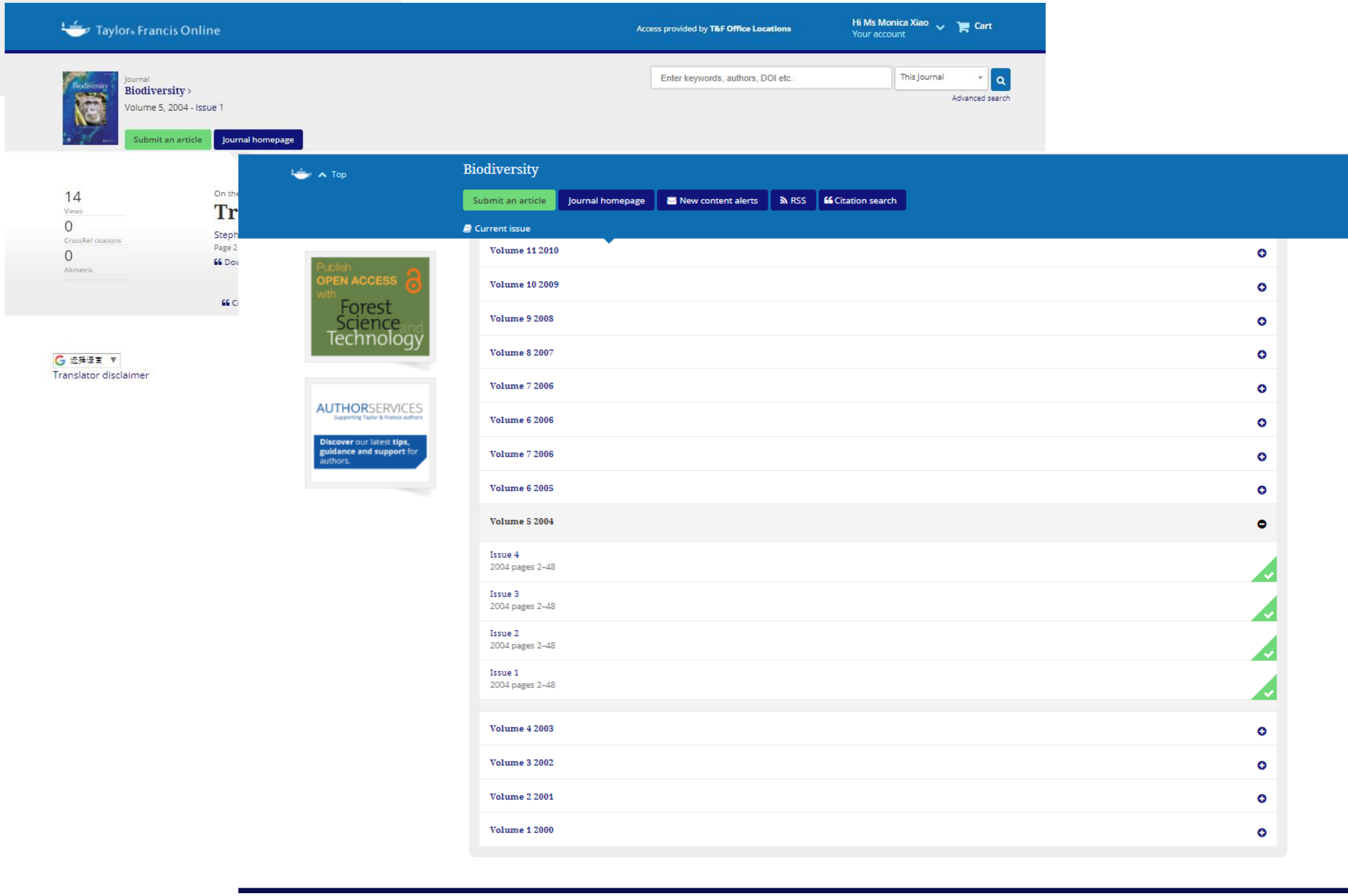
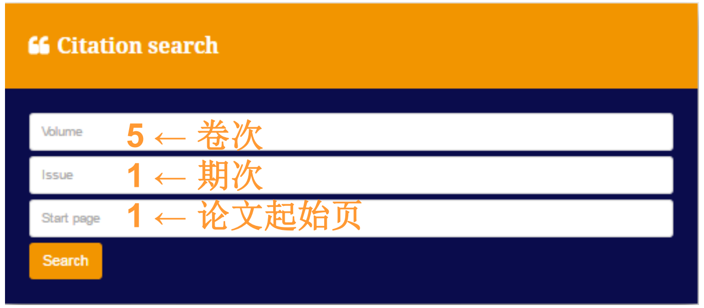
# 平台使用 – 期刊页面




引文信息搜索：




- 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

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