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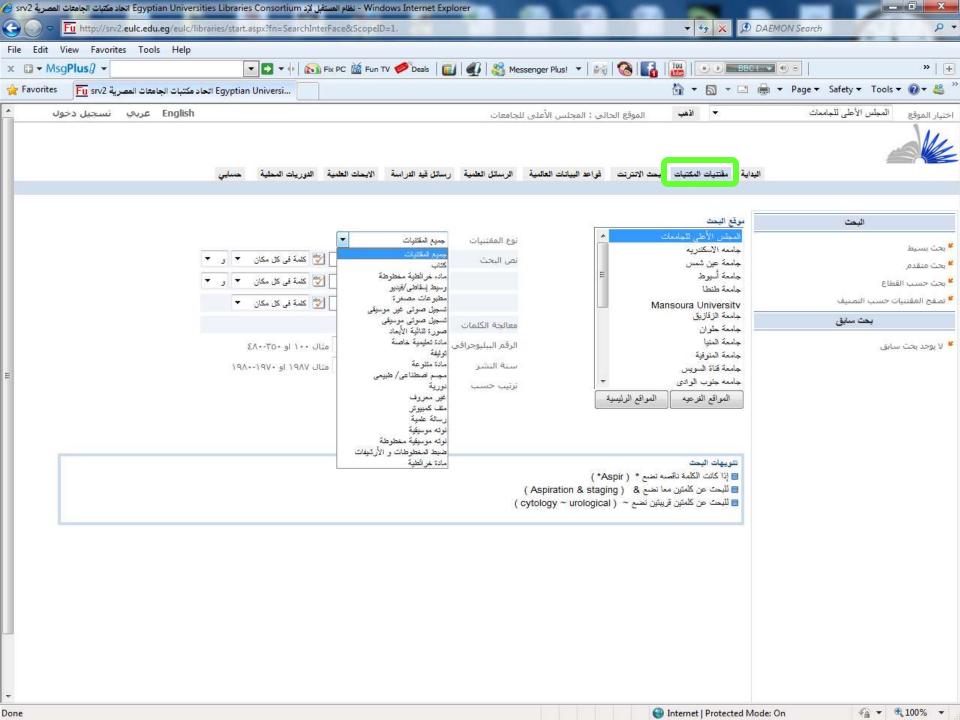
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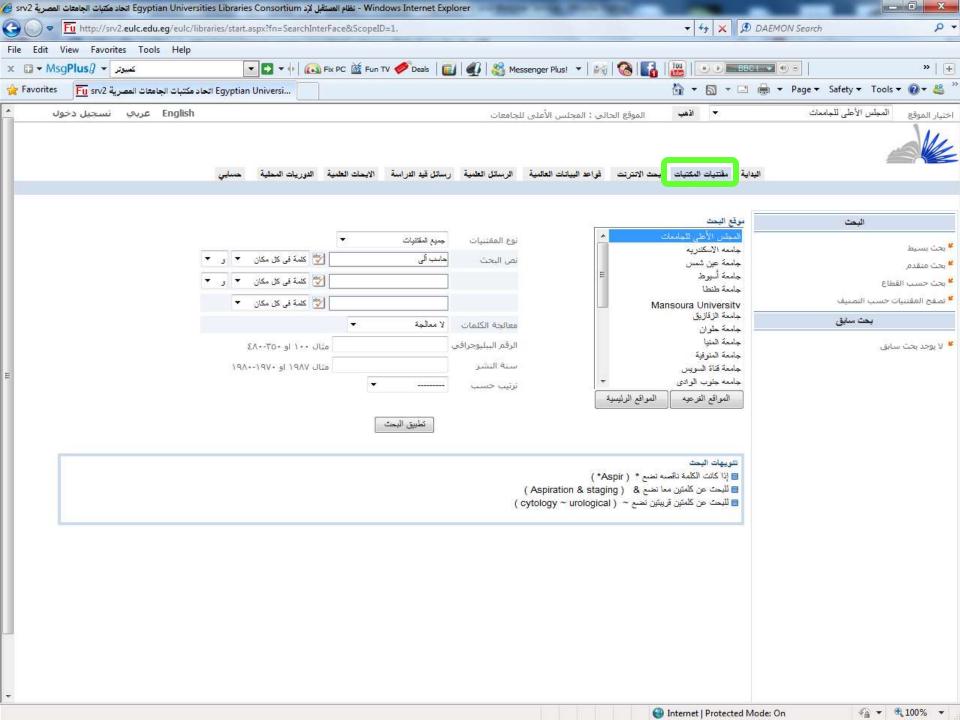
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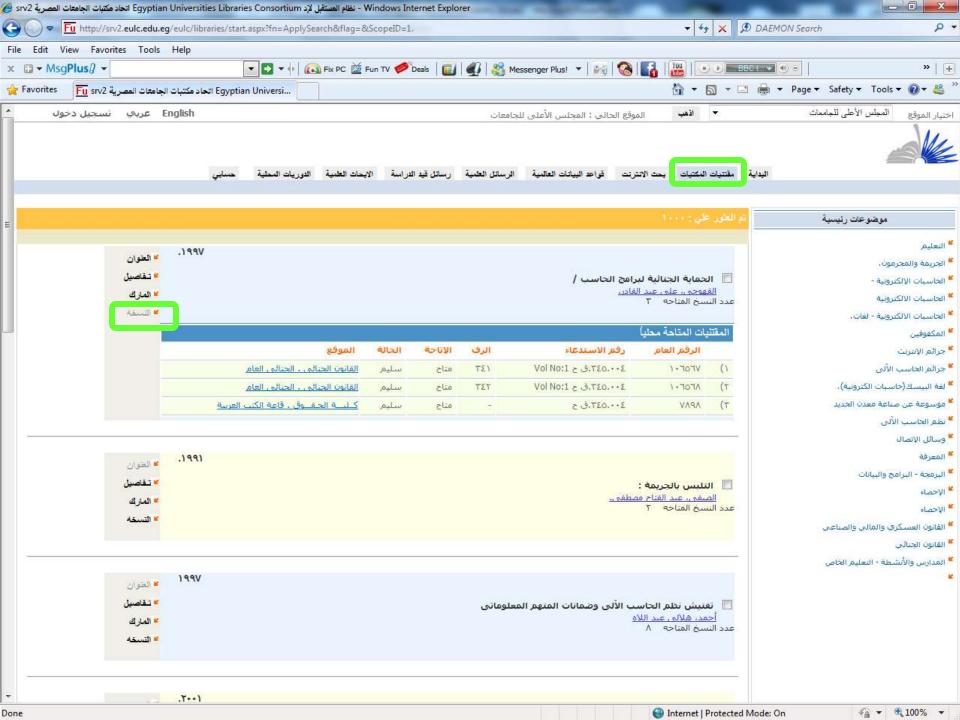
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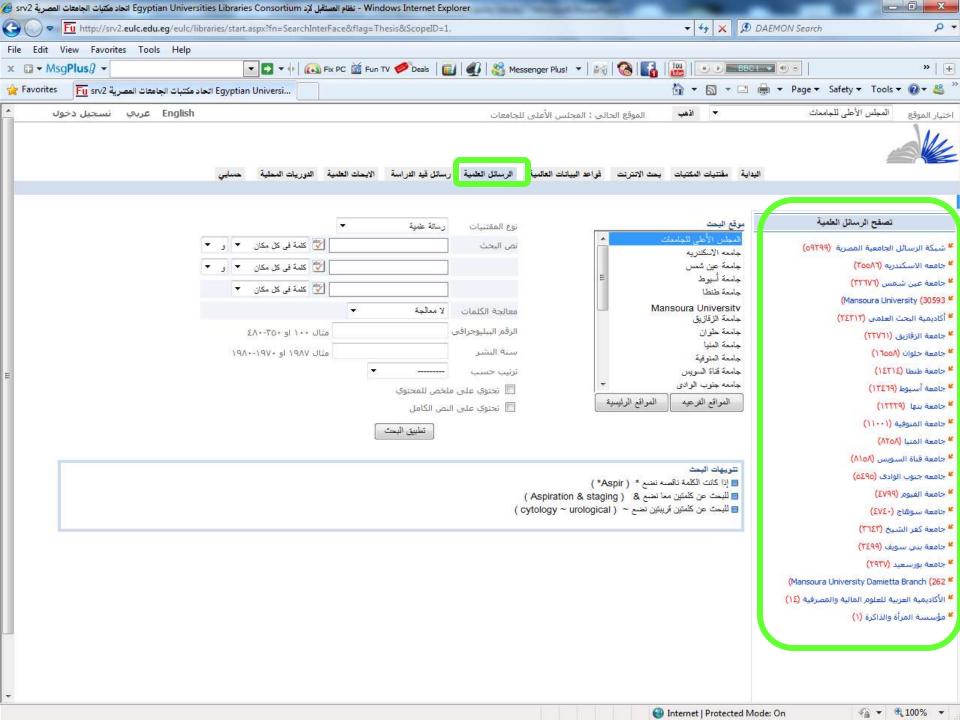
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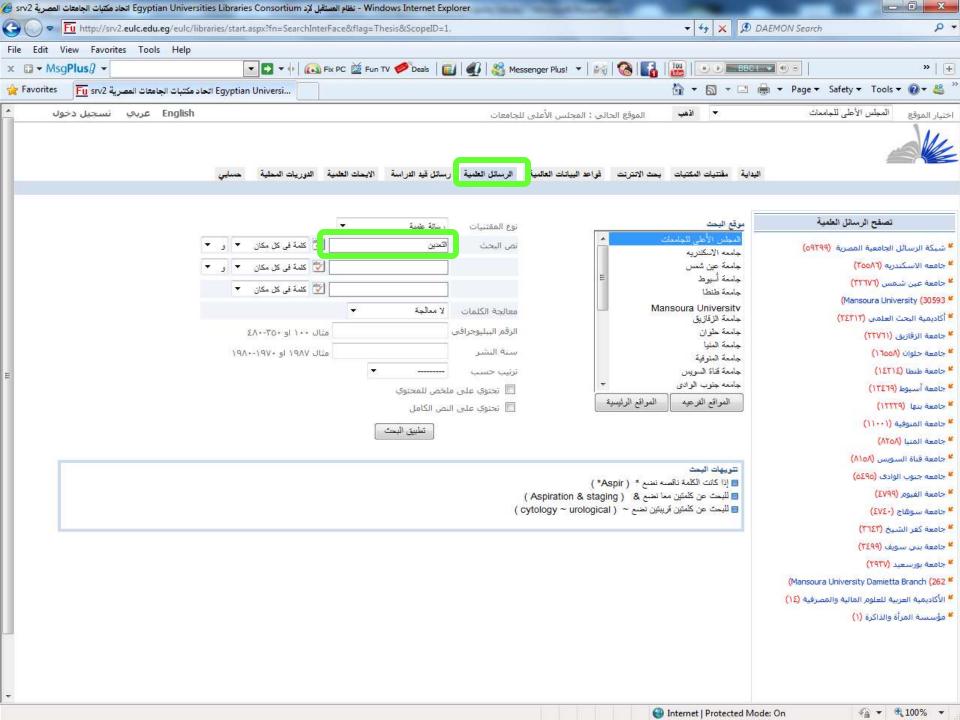


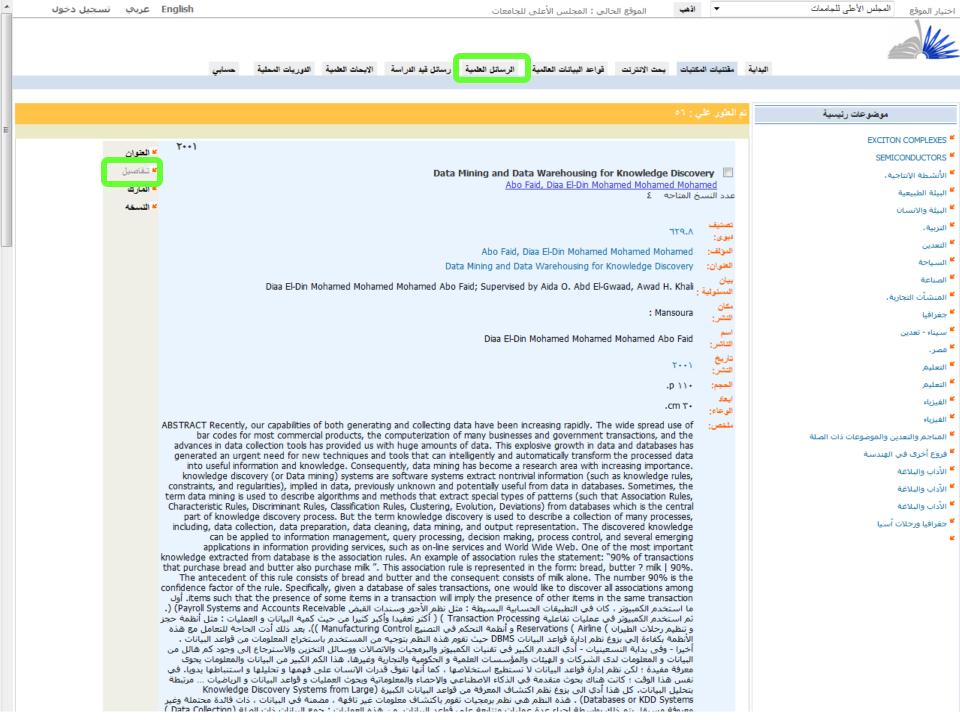


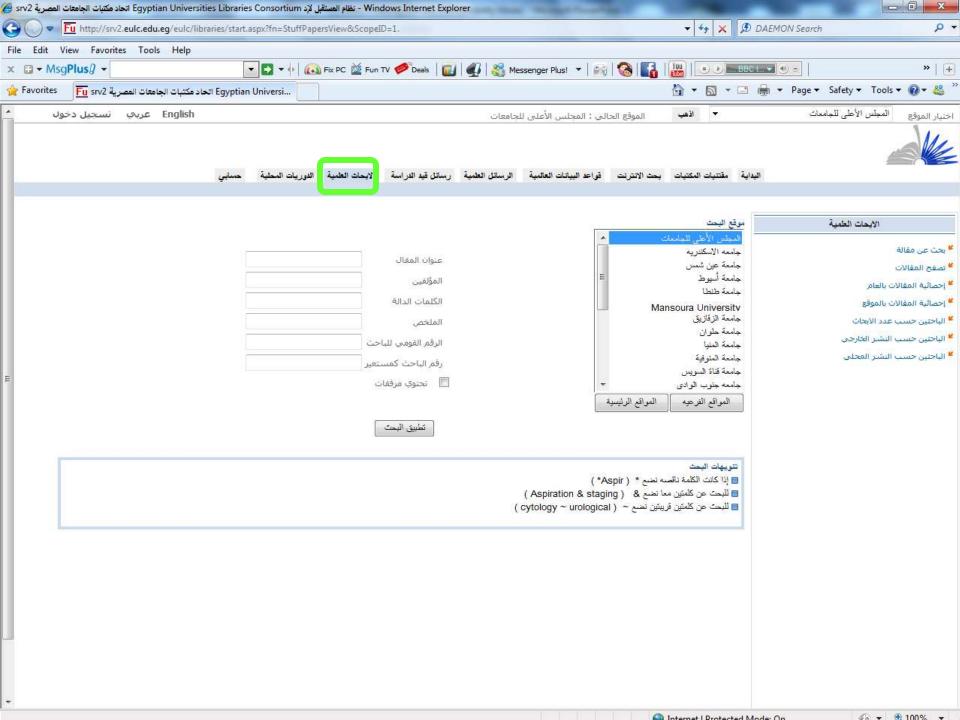


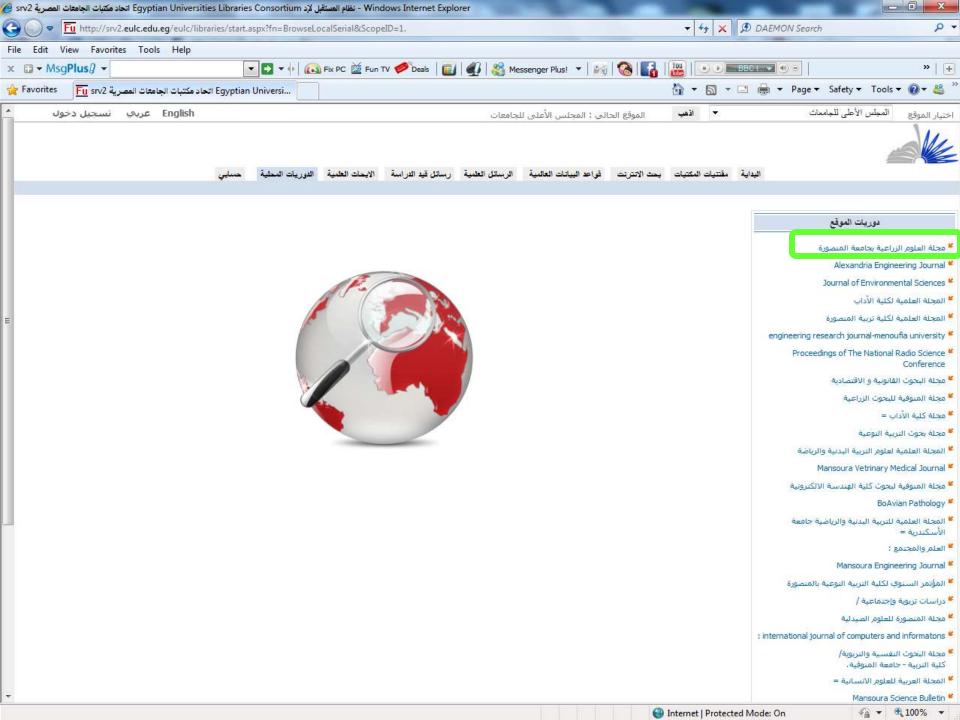


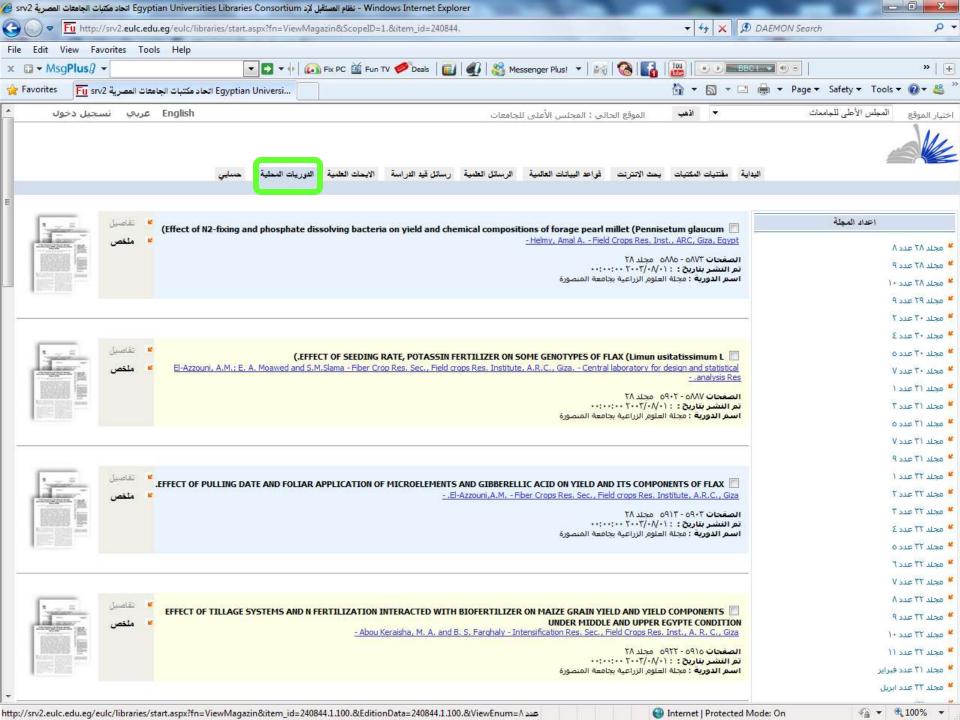














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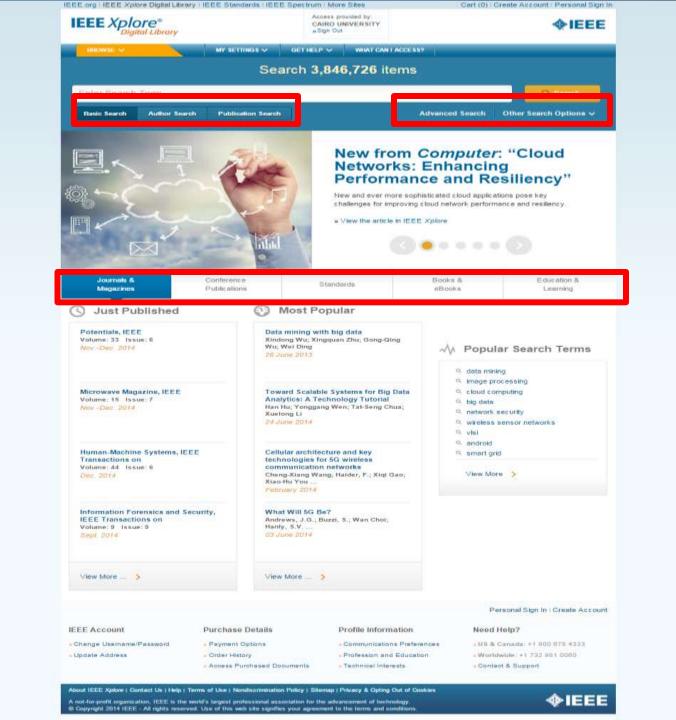
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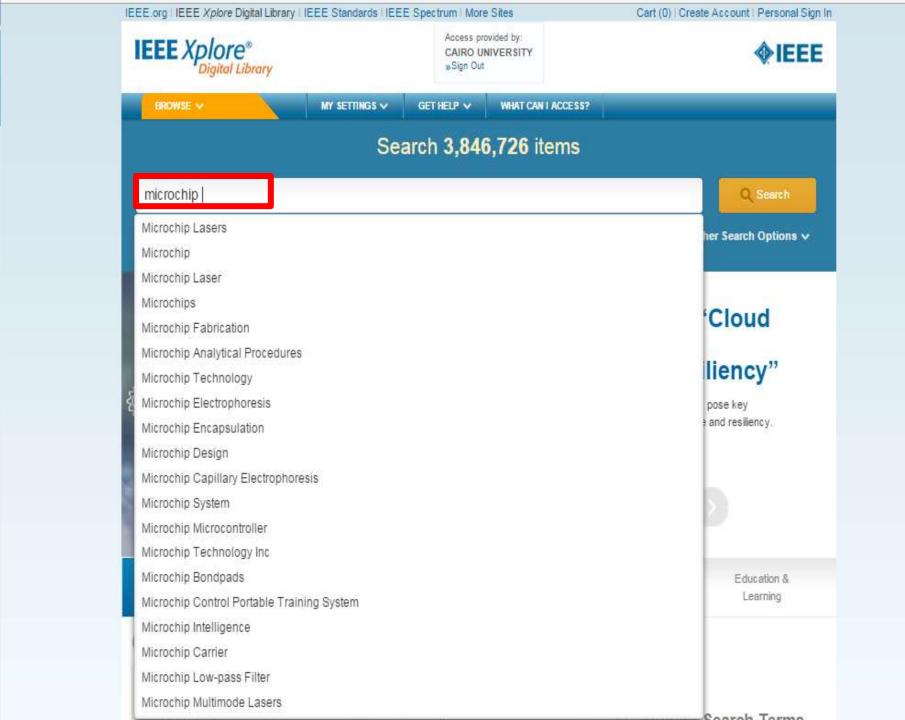
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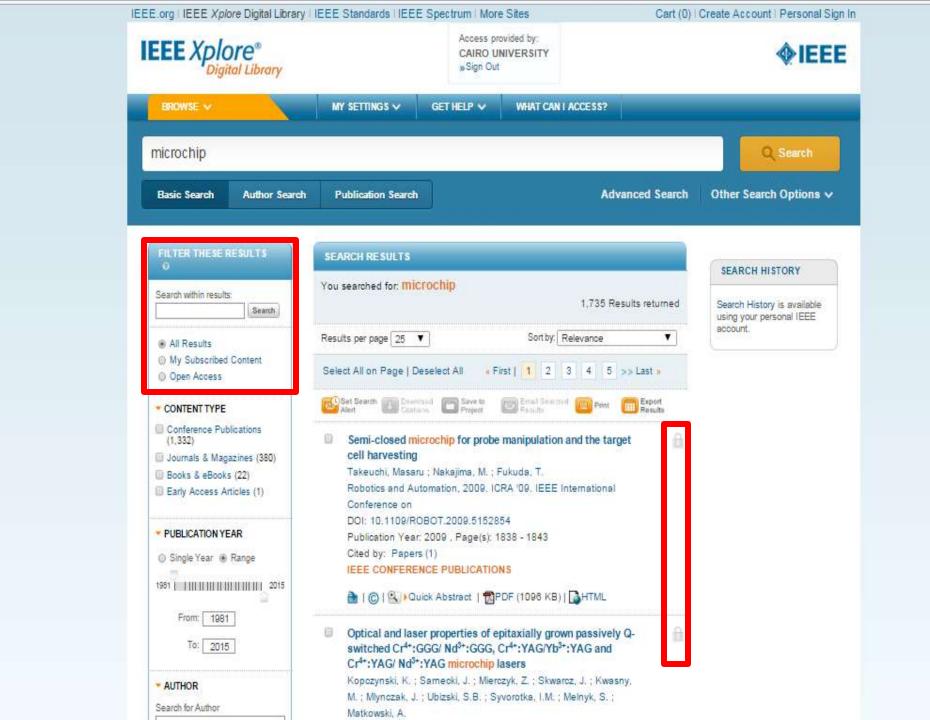
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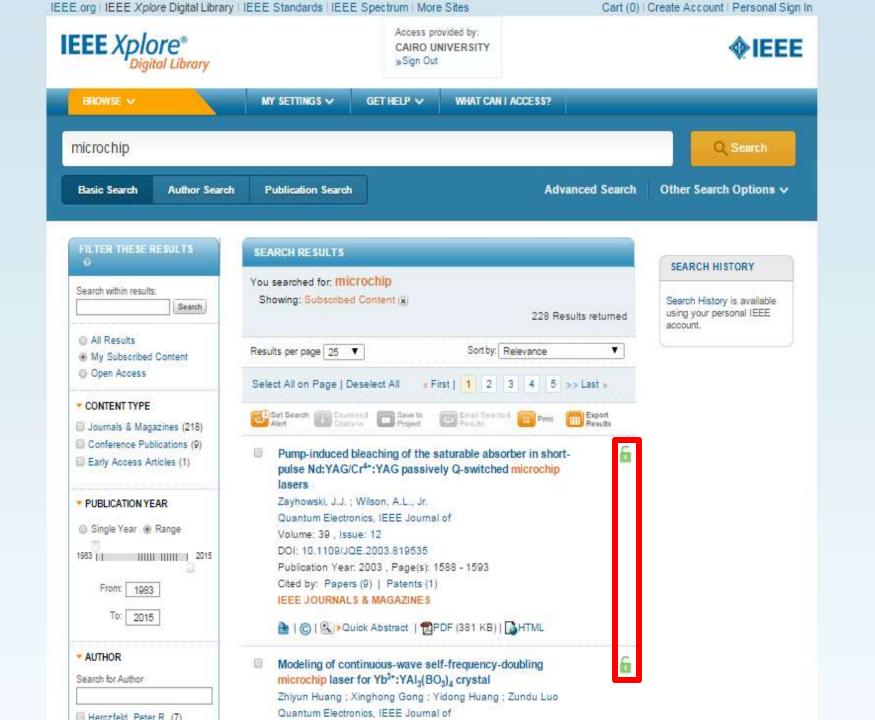
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## Pump-Induced Bleaching of the Saturable Absorber in Short-Pulse Nd:YAG/Cr<sup>4+</sup>:YAG Passively Q-Switched Microchip Lasers

John J. Zayhowski and Alexander (Sandy) L. Wilson, Jr.

Abstract—Bleaching of the saturable absorber by pump light increases the length of the pulse generated in a passively Q-switched Nd:YAG/Cr<sup>4+</sup>:YAG microchip laser and decreases the pulse energy. This effect is greatest when transmitted pump light is nearly focused in the Cr<sup>4+</sup>:YAG and when pumping is sufficiently intense to bleach the absorption of the Nd:YAG. Both effects are important in short-pulse microchip lasers. The maximum repetition rate of a passively Q-switched Nd:YAG/Cr<sup>4+</sup>:YAG microchip laser is correlated with the pulsewidth. In general, it decreases as the pulsewidth gets shorter.

Index Terms—Diode-pumped lasers, microchip lasers, optical saturation, passive Q-switching, solid-state lasers, YAG materials/devices.

### I. INTRODUCTION

PASSIVELY Q-switched microchip lasers based on an Nd:YAG gain medium and a Cr<sup>4+</sup>:YAG saturable absorber have found numerous applications, and several designs have been reported in the literature [1]–[3]. For applications in high-resolution ranging and imaging, it is desirable to have lasers that produce short pulses at high repetition rates, with

repetition rate of a short-pulse passively Q-switched microchip laser using the Nd:YAG/Cr<sup>4+</sup>:YAG material system.

### II. PASSIVE Q SWITCHING

In its simplest embodiment, a passively Q-switched microchip laser consists of a section of gain medium (Nd:YAG) bonded to a section of saturable absorber (Cr<sup>4+</sup>:YAG), sandwiched between two dielectric mirrors [1]. The saturable absorber initially presents a large intracavity loss. As soon as there is enough gain in the cavity to overcome that loss, the laser reaches threshold. The optical field generated bleaches the saturable absorber, reducing the cavity loss and resulting in Q-switched laser performance.

If the absorption cross section of the saturable absorber is large compared to the gain cross section of the gain medium, it takes relatively few stimulated photons to bleach the absorber, and bleaching occurs quickly. In the limit of instantaneous Q-switching, the minimum pulsewidth  $t_{\rm w,inst}$  that can be obtained is 8.1 times the round-trip time of light in the laser cavity,  $t_{\rm rt}$ , divided by the natural logarithm of the small-signal

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### Pump-induced bleaching of the saturable absorber in short-pulse Nd:YAG/Cr<sup>4+</sup>:YAG passively Q-switched microchip lasers

Bleaching of the saturable absorber by pump light increases the length of the pulse generated in a passively Q-switched Nd:YAG/Cr<sup>4+</sup>:YAG microchip laser and decreases the pulse energy. This effect is greatest when transmitted pump light is nearly focused in the Cr<sup>4+</sup>:YAG and when pumping is sufficiently intense to bleach the absorption of the Nd:YAG. Both effects are important in short-pulse microchip lasers. The maximum repetition rate of a passively Q-switched Nd:YAG/Cr<sup>4+</sup>:YAG microchip laser is correlated with the pulsewidth. In general, it decreases as the pulsewidth gets shorter.

This paper appears in: Quantum Electronics, IEEE Journal of, Issue Date: Dec. 2003, Written by: Zayhowski, J.J.; Wilson, A.L., Jr.

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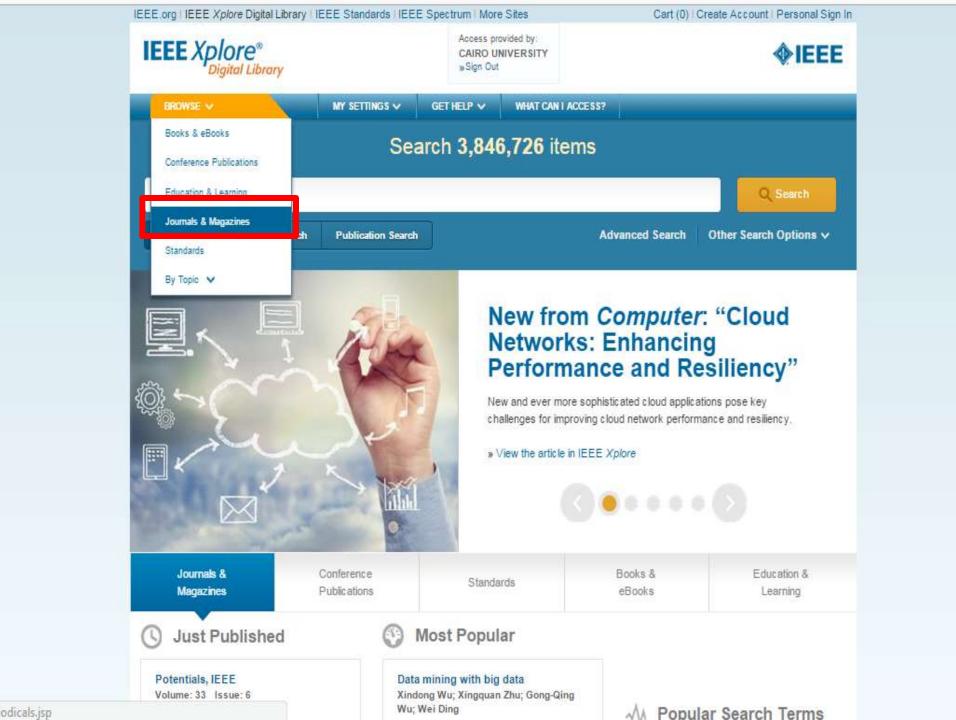




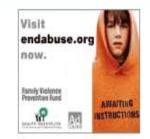
PASSIVELY Q-switched microchip lasers based on an Nd:YAG gain medium and a  $C_{\Gamma}^{4+}$ :YAG saturable absorber have found numerous applications, and several designs have been reported in the literature [1]–[2][3]. For applications in high-resolution ranging and imaging, it is desirable to have lasers that produce short pulses at high repetition rates, with reasonable pulse energies [4], [5]. In this paper, we report the shortest pulses obtained from an Nd:YAG/ $C_{\Gamma}^{4+}$ :YAG passively Q-switched laser. More importantly, we discuss one of the obstacles to obtaining even shorter pulses—pump-induced bleaching of the saturable absorber. We also show that, for short-pulse operation, the pulsewidth of a microchip laser is correlated with the maximum pulse rate achievable; there is a tradeoff between how short the pulse is and how high the repetition rate of the laser can be, independent of the pump power available.

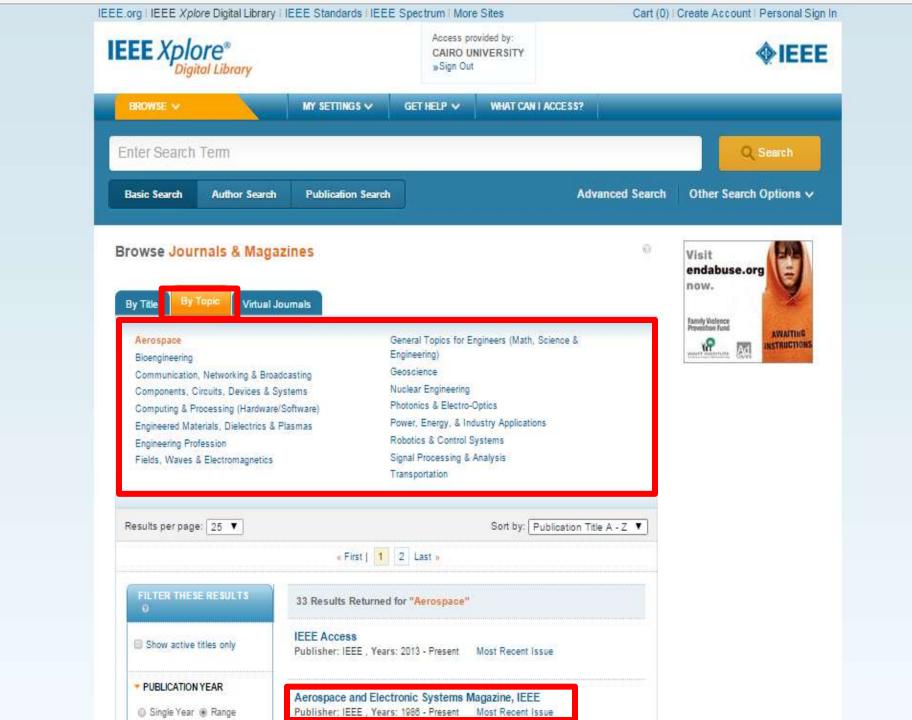
This paper starts with a brief review of passive Q-switching in microchip lasers. It then reviews the performance of several passively Q-switched devices. Discrepancies between the

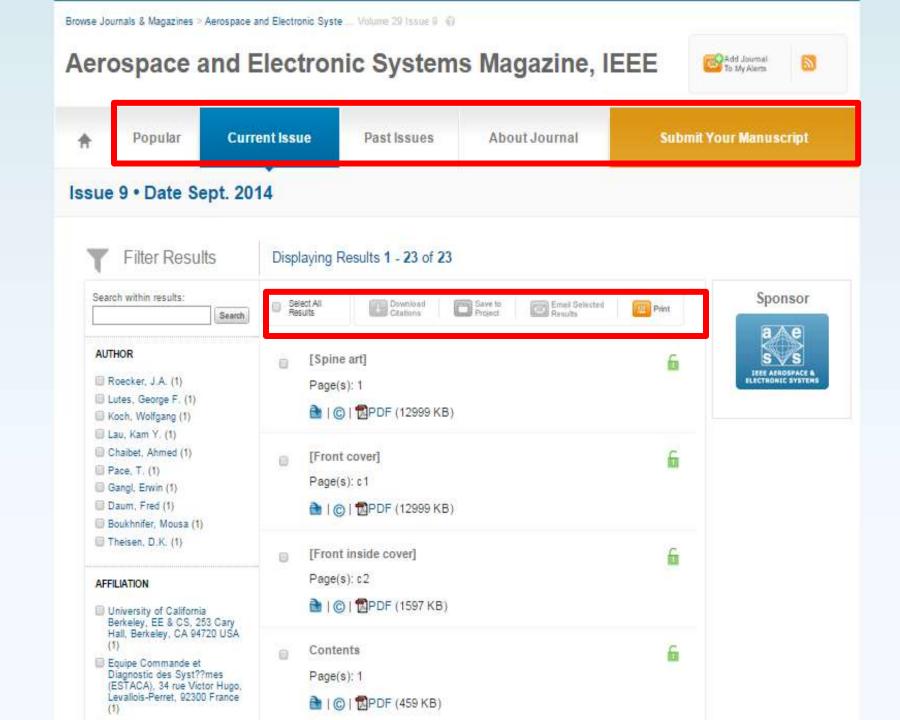




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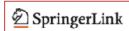
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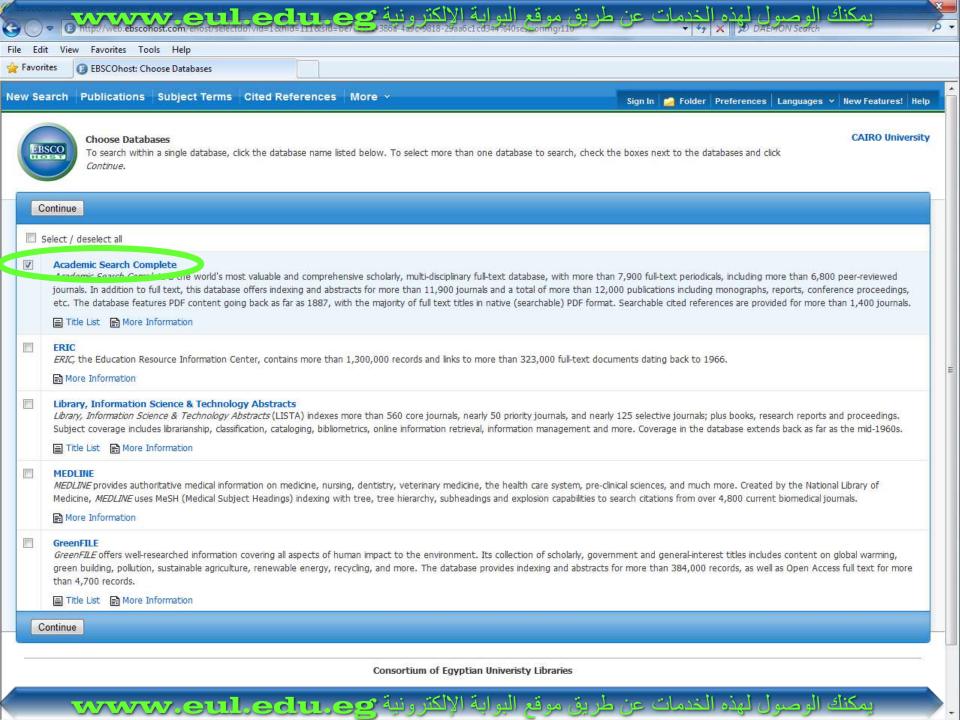
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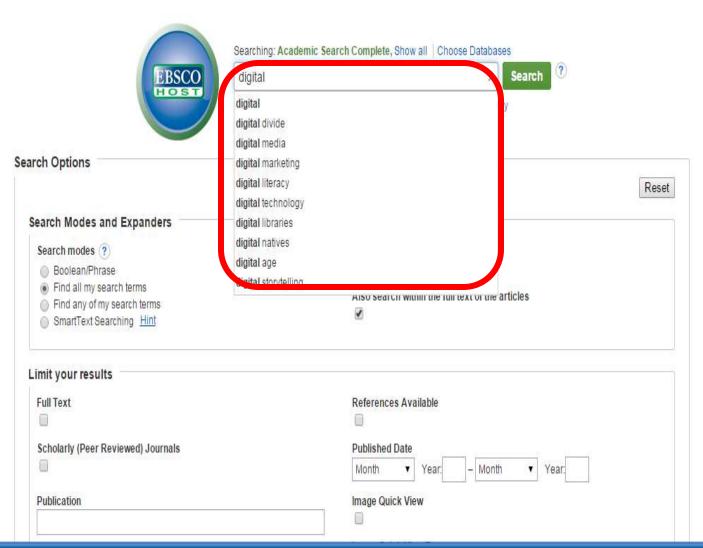


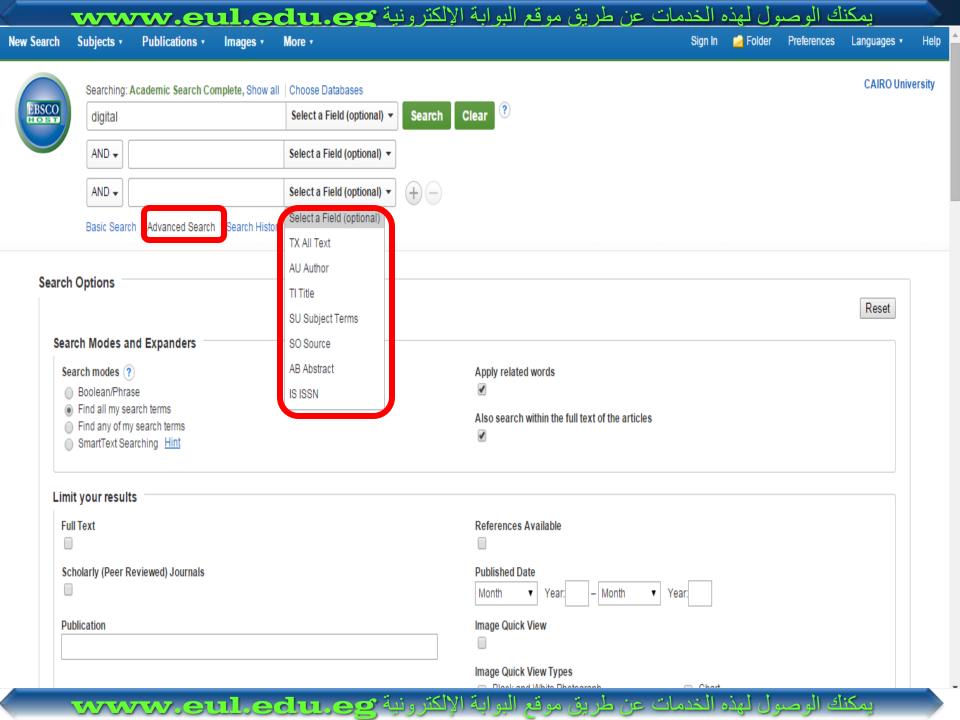


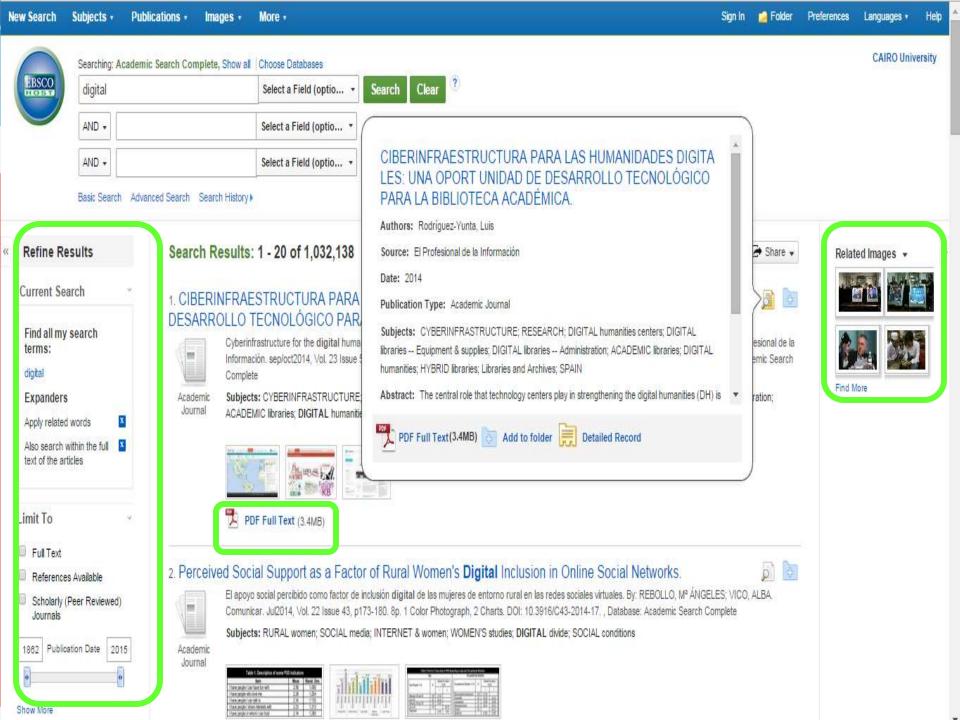
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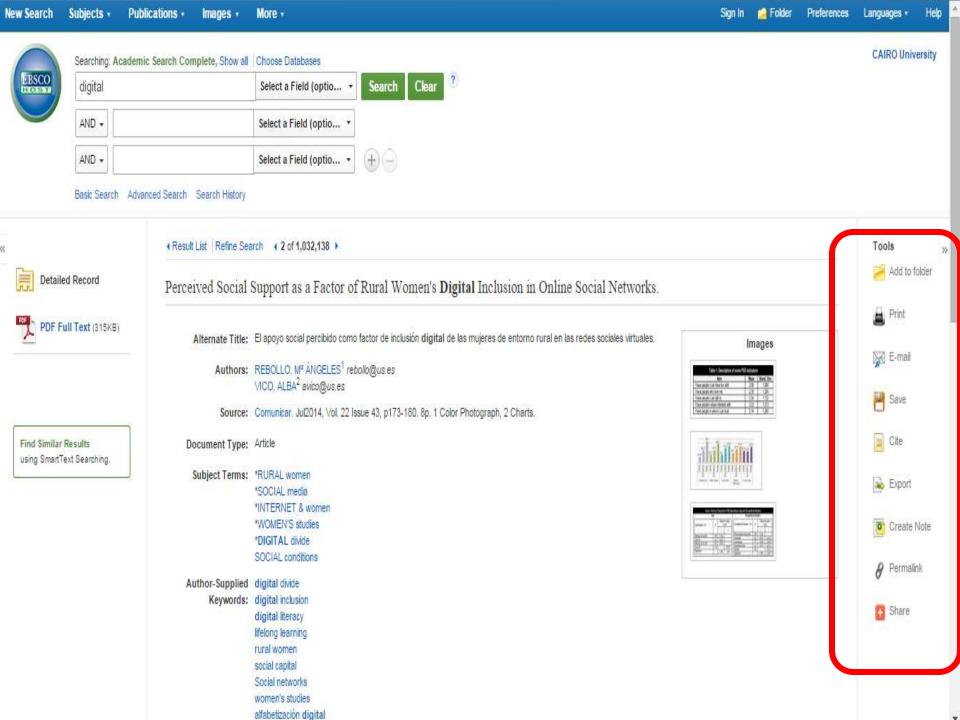
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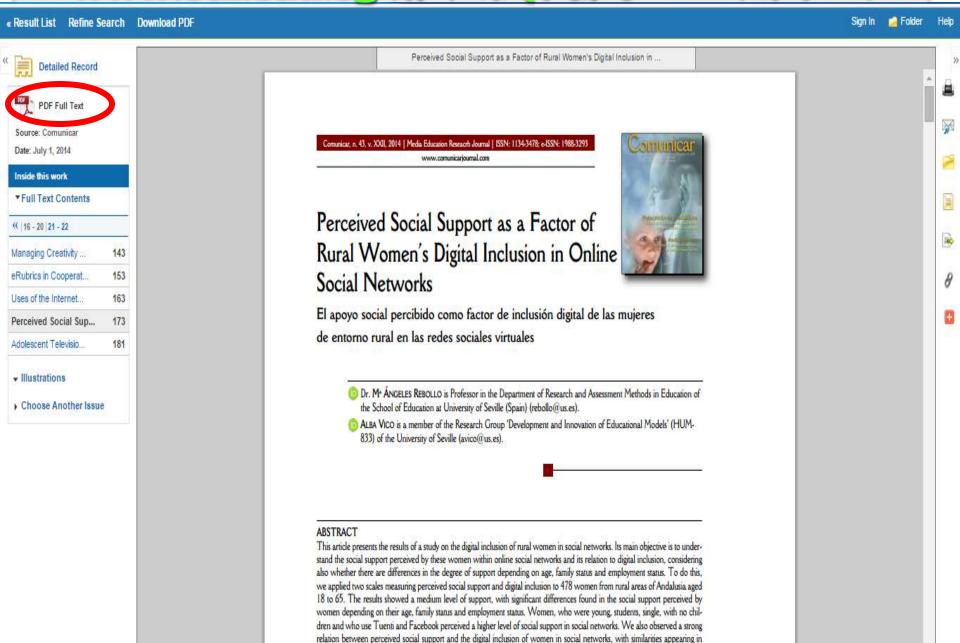








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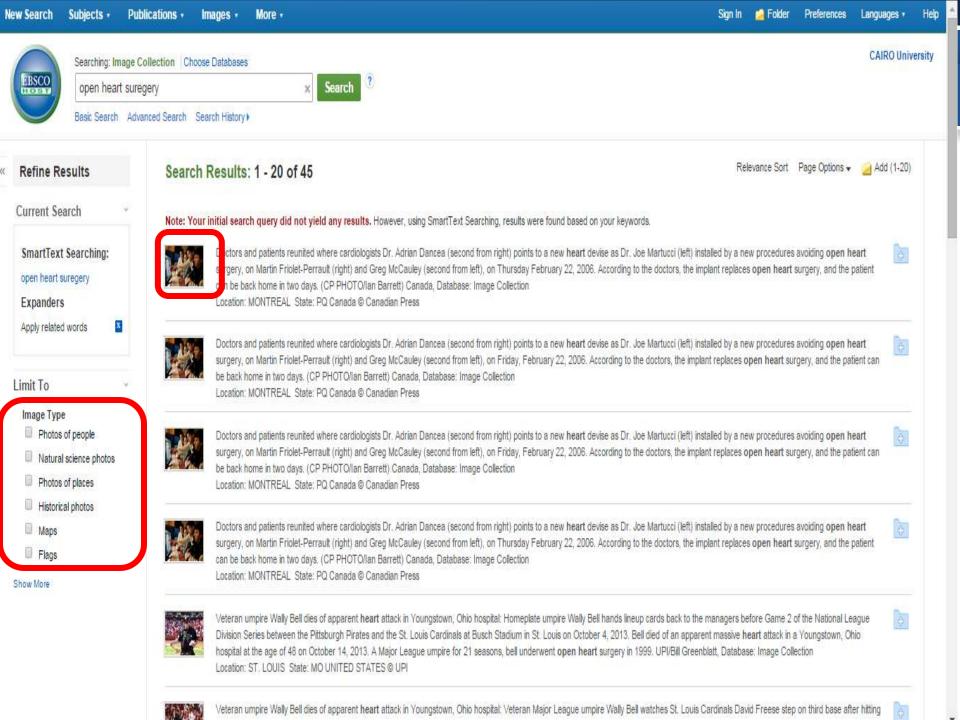


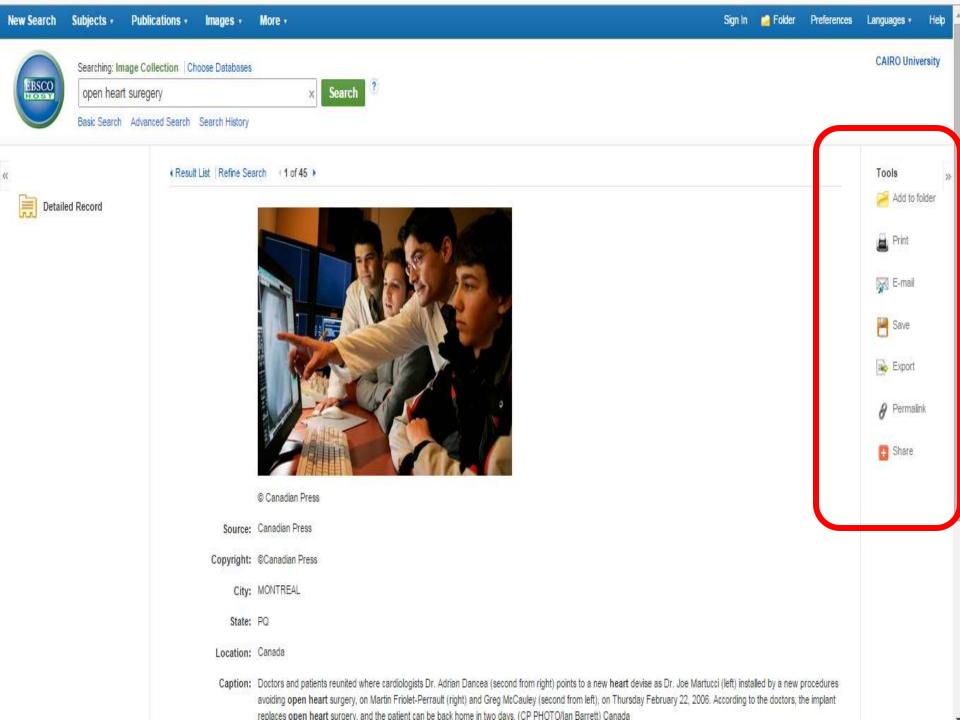
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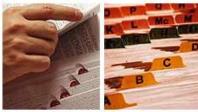
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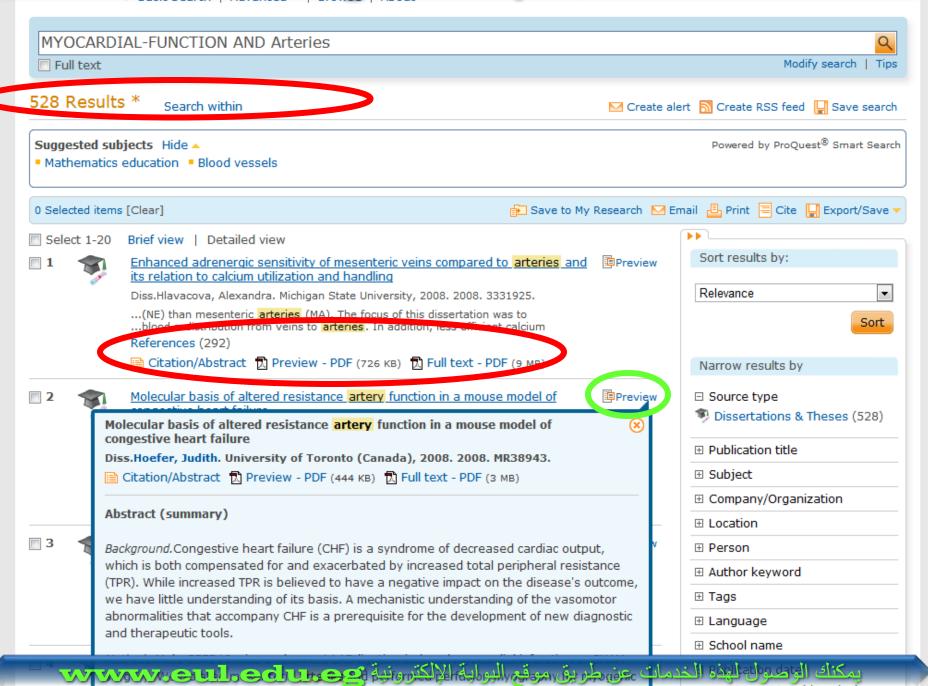


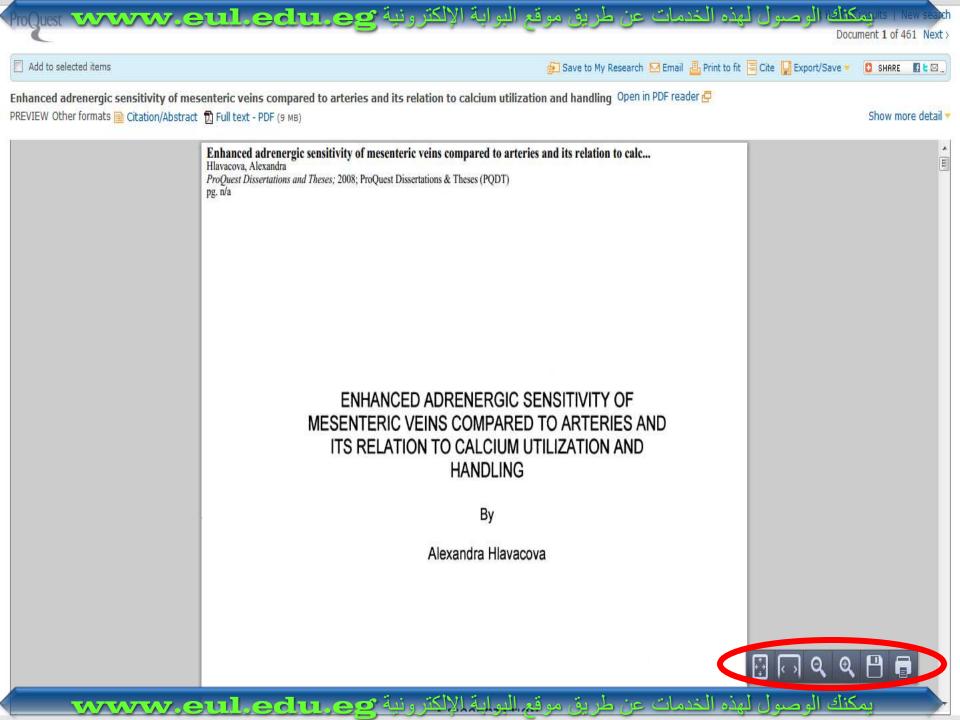
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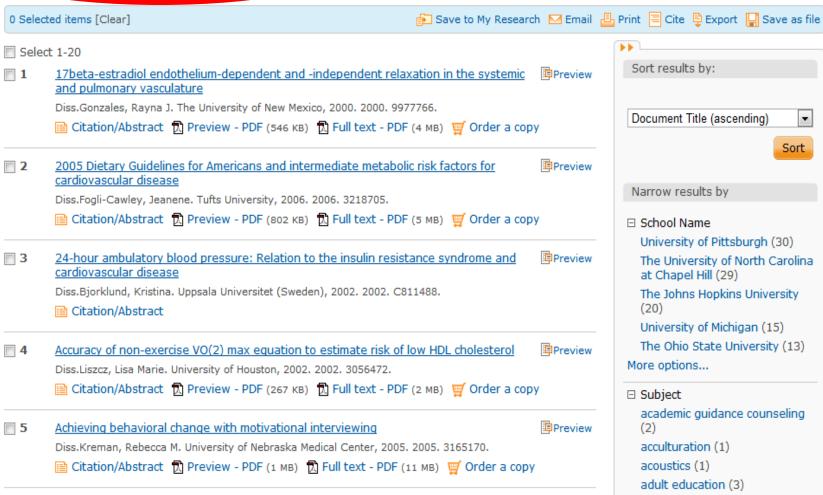
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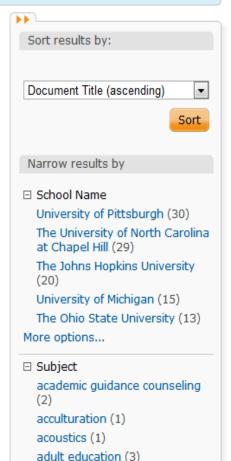
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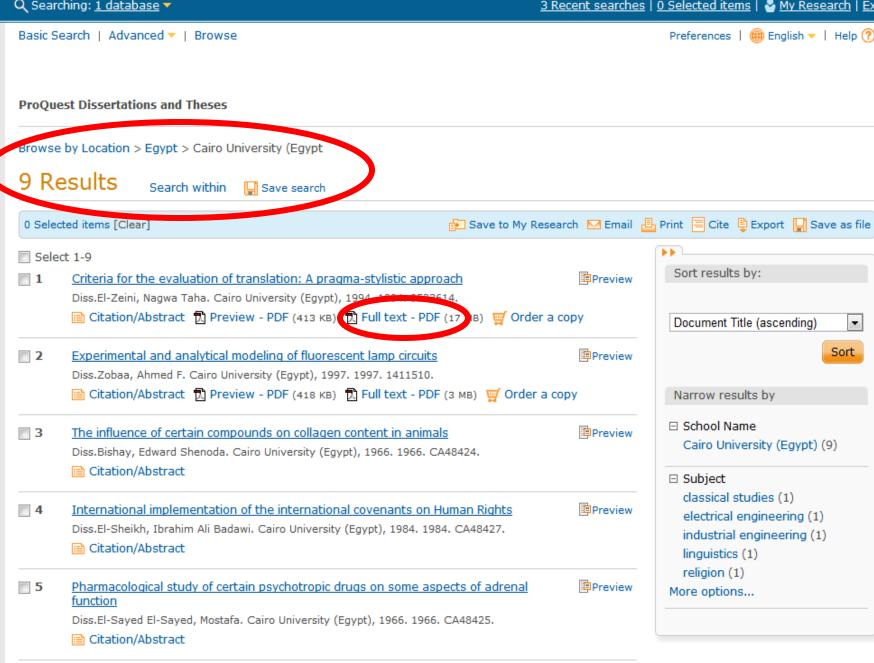
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# A Scalable Middleware for Web Databases

Athman Bouguettaya, Virginia Tech., USA

Zaki Malik, Virginia Tech., USA

Abdelmounaam Rezgui, Virginia Tech., USA

Lori Korff, Virginia Tech., USA

#### ABSTRACT

The emergence of Web databases has introduced new challenges related to their organization, access, integration, and interoperability. New approaches and techniques are needed to provide across-the-board transparency for accessing and manipulating Web databases irrespective of their data models, platforms, locations, or systems. In meeting these needs, it is necessary to build a middleware infrastructure to support flexible tools for information space organization.



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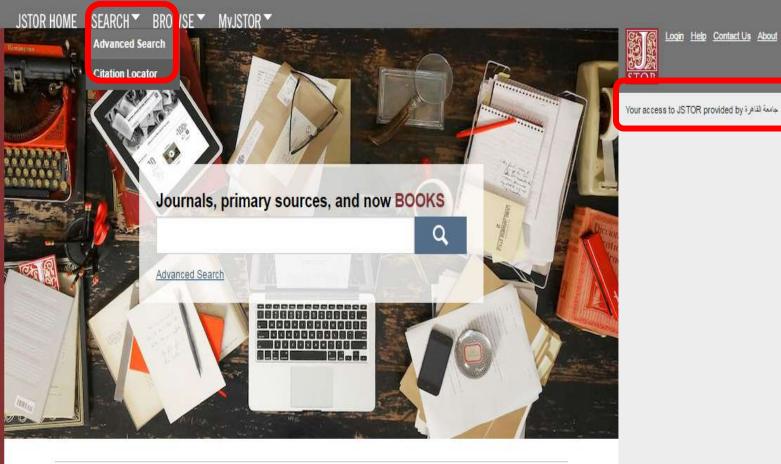
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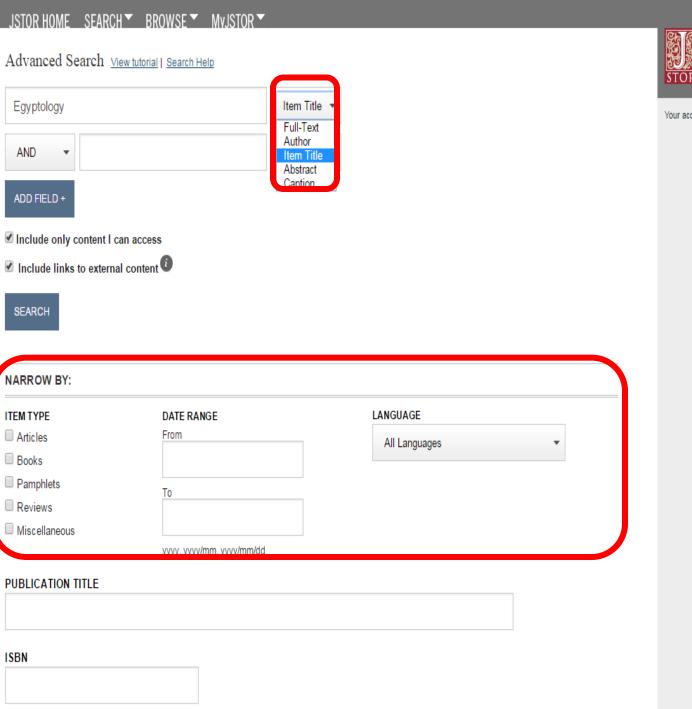
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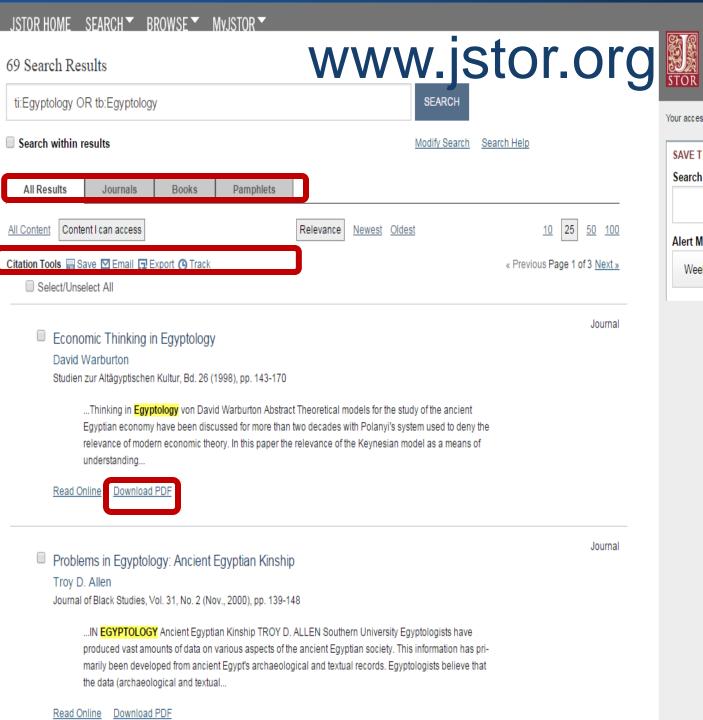


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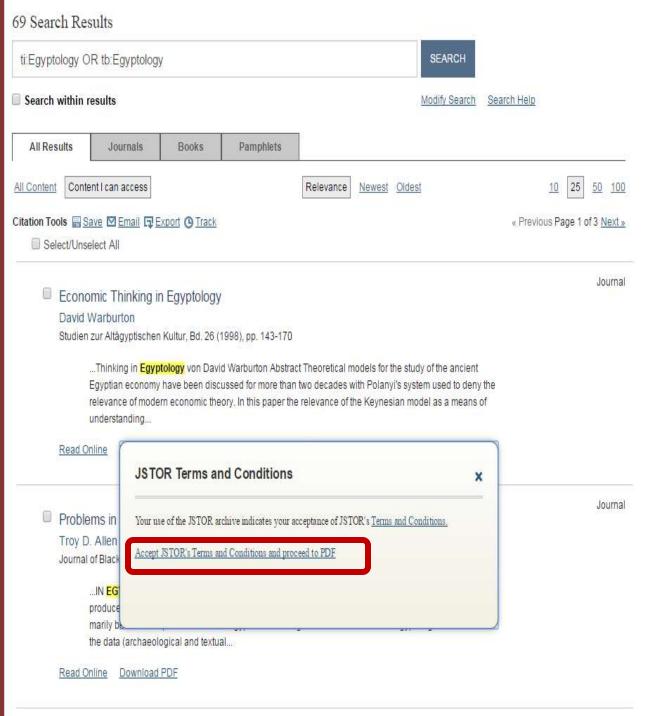
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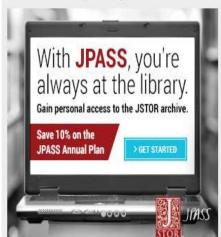


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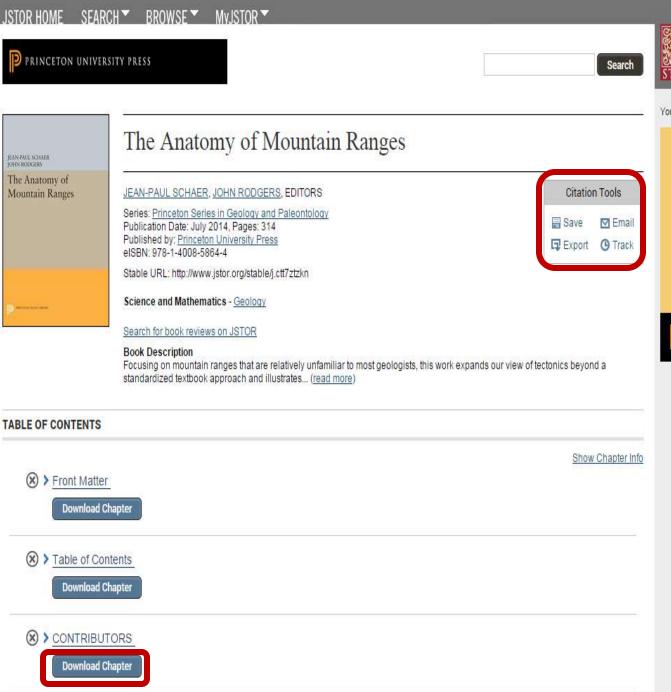
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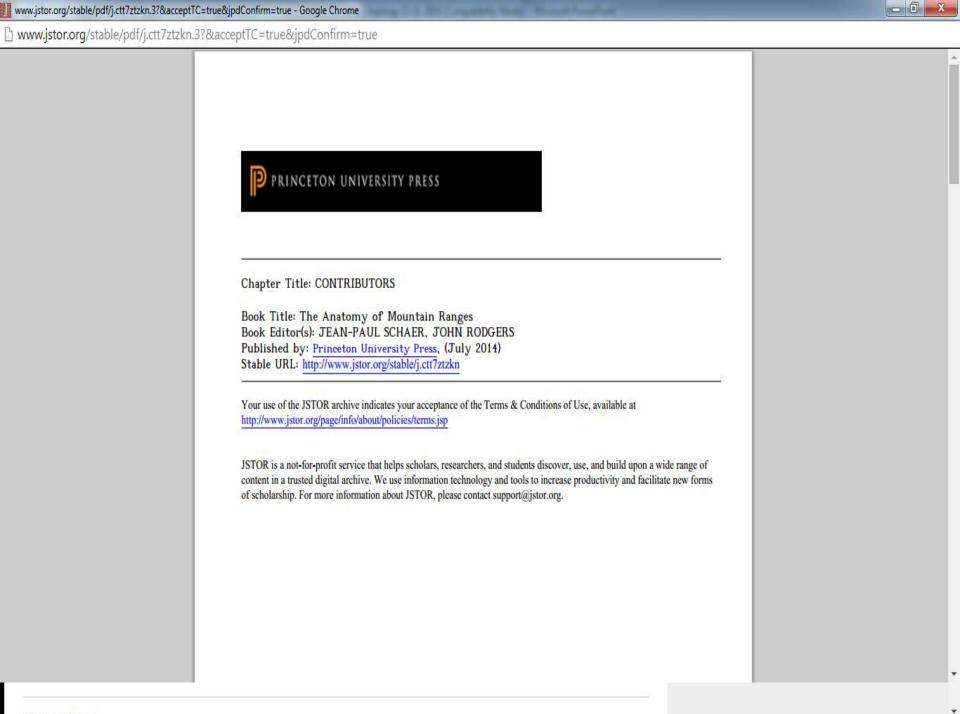




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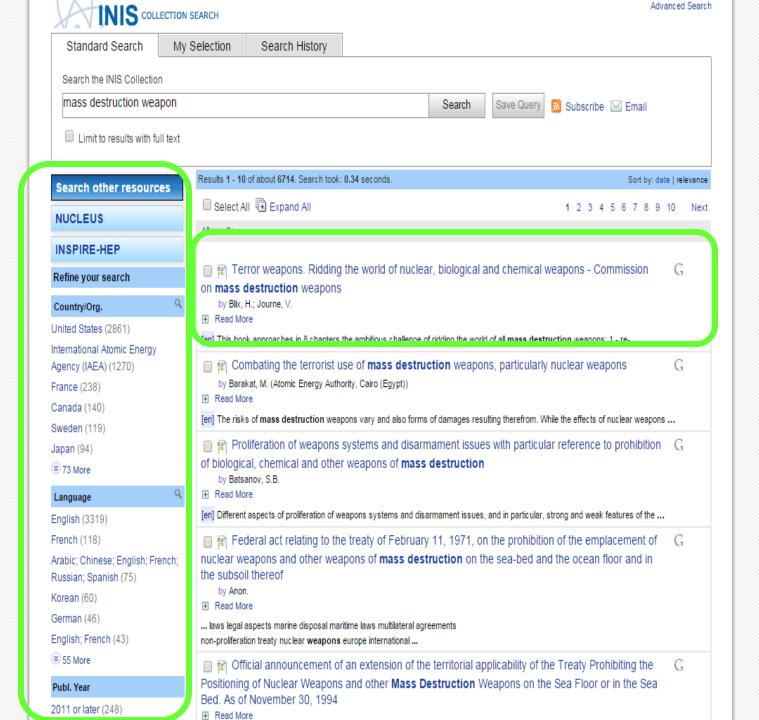
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by Blix, H.; Journe, V.

[en] This book approaches in 8 chapters the ambitious challenge of ridding the world of all mass destruction weapons: 1 - re-launching disarmament; 2 - terror weapons: nature of threats and answers (weakness of traditional answers, counter-proliferation); 3 - nuclear weapons: preventing proliferation and terrorism, reducing threat and nuclear weapons number, from regulation to banning); 4 - biological or toxin weapons; 5 - chemical weapons; 6 - vectors, anti-missile defenses and space weapons; 7 - exports control, international assistance and non-governmental actors; 8 - respect, verification, enforcement and role of the United Nations. The recommendations and works of the Commission are presented in appendix together with the declaration adopted on April 30, 2009. (J.S.)

Orig. Title Armes de terreur. Debarrasser le monde des armes nucleaires, biologiques et chimiques - Commission sur les armes de destruction massive

Subject NUCLEAR DISARMAMENT, SAFEGUARDS AND PHYSICAL PROTECTION (S98)

Source/Report 2010; 250 p; Editions L'Harmattan; Paris (France); ISBN 2-296-11586-6

Record Type Book Country/Org. France

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 French

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Wheat in Egypt



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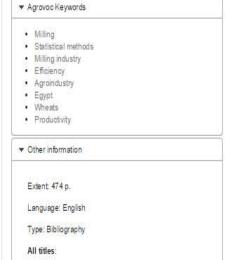


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. The study aimed to identify structural changes in the manufacture of wheat milling in Egypt through the study of economic indicators of mills, silos, and transport operations for wheat, as the study of technological development as well as the temporal and finally the political changes relation to each other in order to know the impact this has on the structure of the milling industry in Egypt. The study consists of five sections in addition to the findings and recommendations and a summary in Arabic and another in English, in addition to the appendices and references. The first two chapters review of reference for studies and research related to the previous field of study, and the theoretical framework. The second section was interested in the economic analysis of the wheat crop in the first three chapters deal with the economic indicators for the global wheat crop, and productivity indicators for the second crop of wheat in Egypt, and final consumption and foreign trade of wheat crop in Egypt.

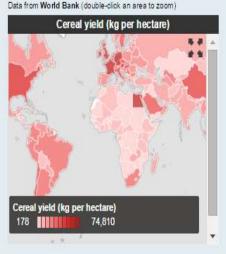
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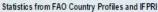


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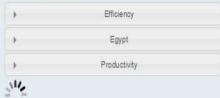
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### Food Price Watch





YEAR 5 • ISSUE 17 • MAY 2014

International prices of food increased by 4% during January and April 2014, putting an end to the declining trend of food prices sustained since August 2012. Prices of wheat and maize sharply increased during that period due to growing weather concerns and mounting import demand. Despite favorable prospects for cereals supplies, several uncertainties hang over the near future, some exerting upward pressures on prices, such as weather in the United States and, more globally, El Niño, and a hypothetical escalation of geopolitical tensions in Ukraine and others exerting downward pressures on export prices, such as the releases of public stockpiles of rice in Thailand. Domestic prices of food generally stabilized across regions, marked by seasonal trends and availabilities from previous harvests. In some places, conflicts, public procurement policies, and transport costs had important effects on domestic prices.

The thematic section of this report discusses the role that food prices and food shortages may have on food riots, a term widely used but poorly defined, and partially reflecting decades of overlooking the *food-to-conflict* nexus. Hence, monitoring food prices responds not only to food security and welfare interests, but also to political stability and security concerns. Proper monitoring constitutes a first step in addressing the complex interactions between food insecurity and conflict.

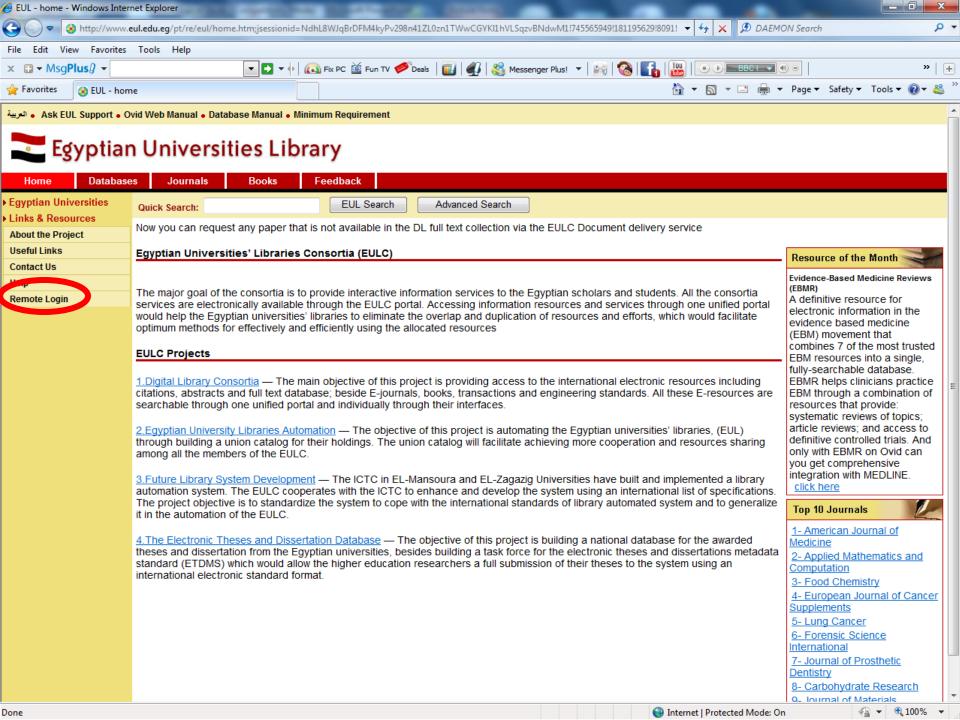
#### **Global Price Trends**

International food prices have increased by 4% between January and April 2014, interrupting sustained declining trends in food prices observed since August 2012 (figure 1).

price of internationally traded maize rose by 12% between January and April 2014. Nonetheless, the prices of maize remained in April 2014 some 21% lower than a year ago, while international prices of wheat were 5% higher than those observed in April 2013. Rice prices followed



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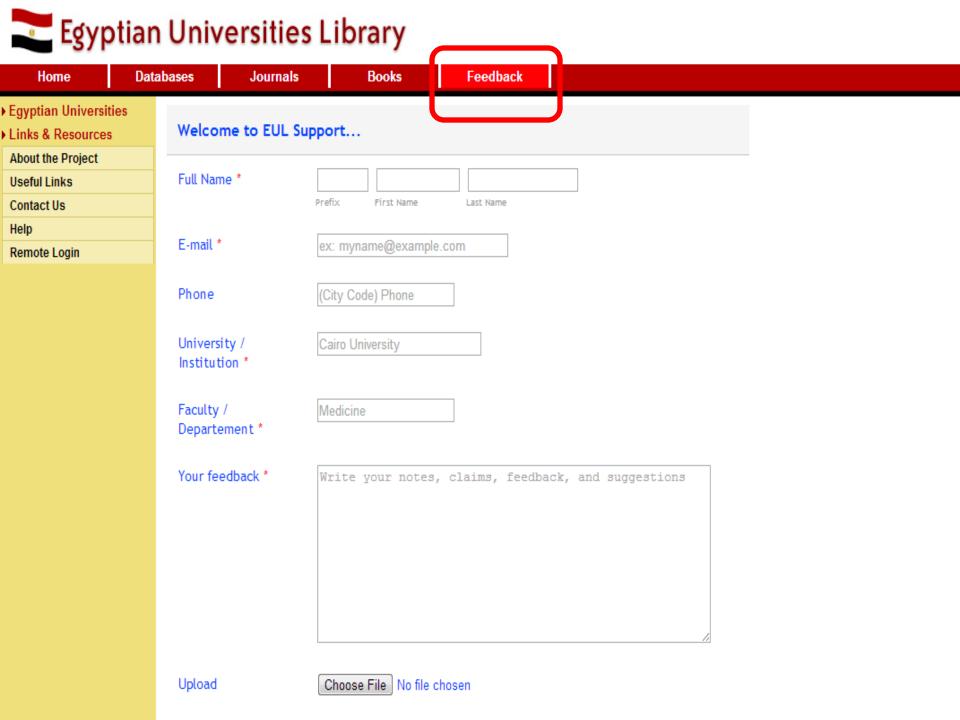
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