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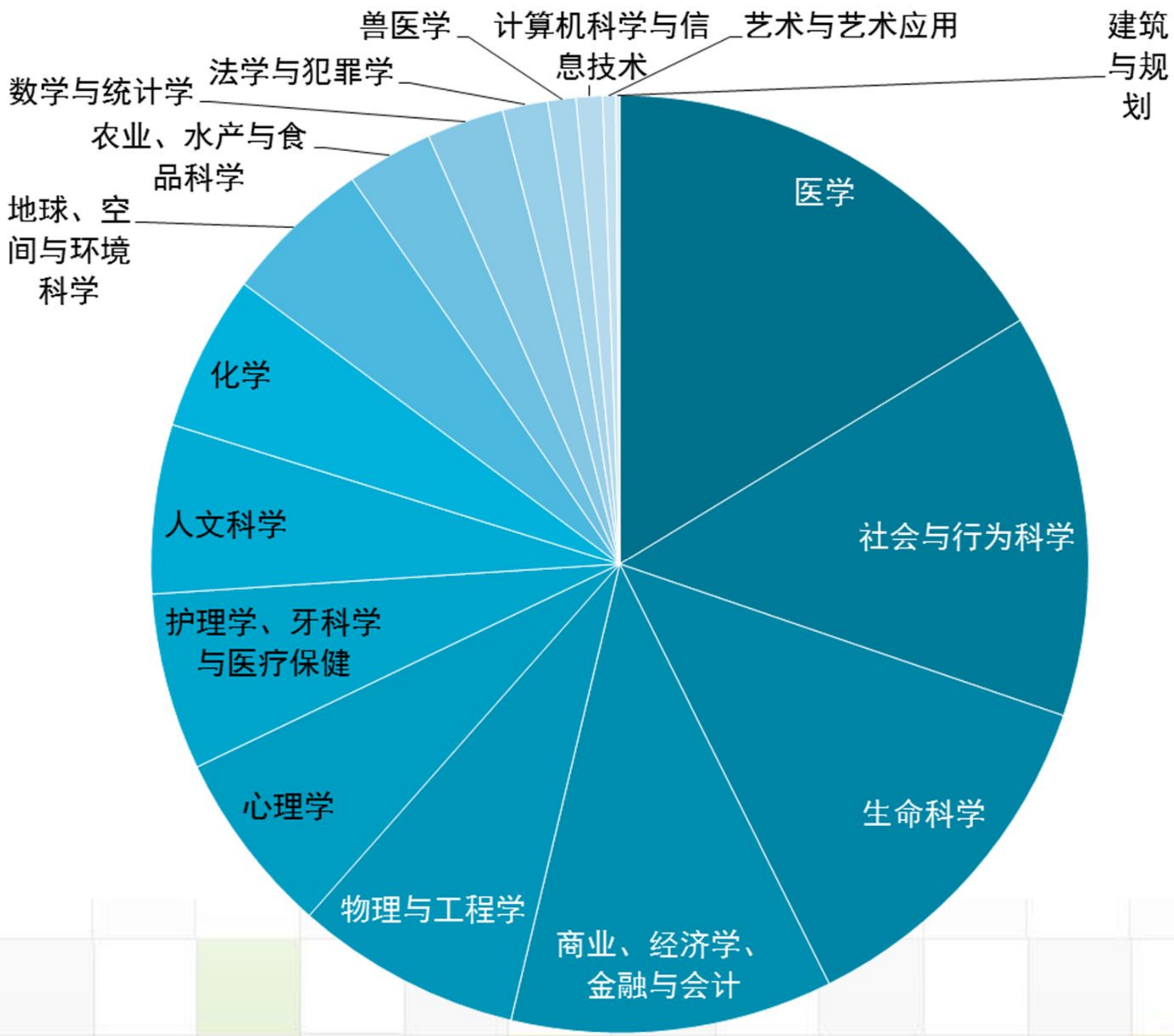

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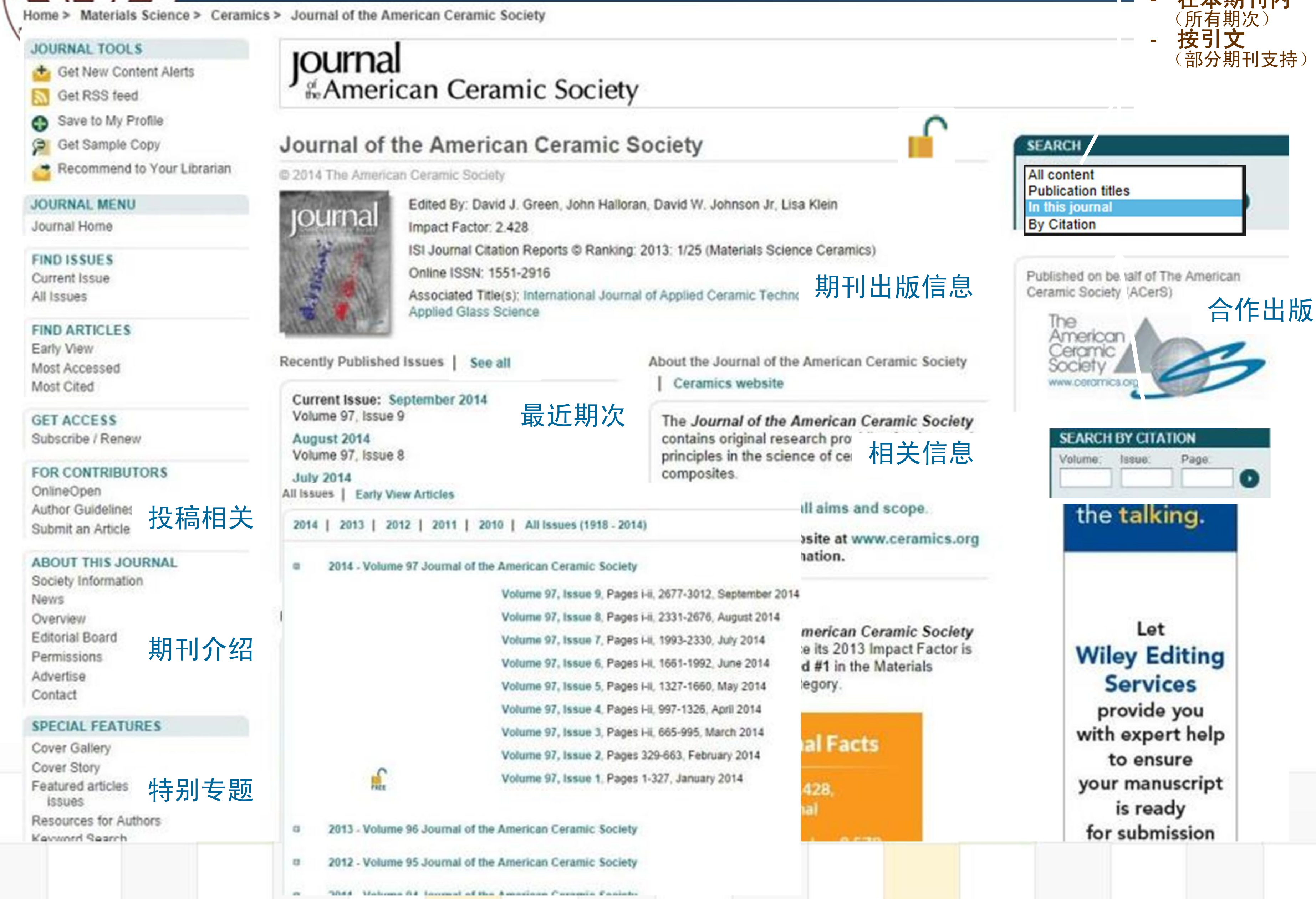

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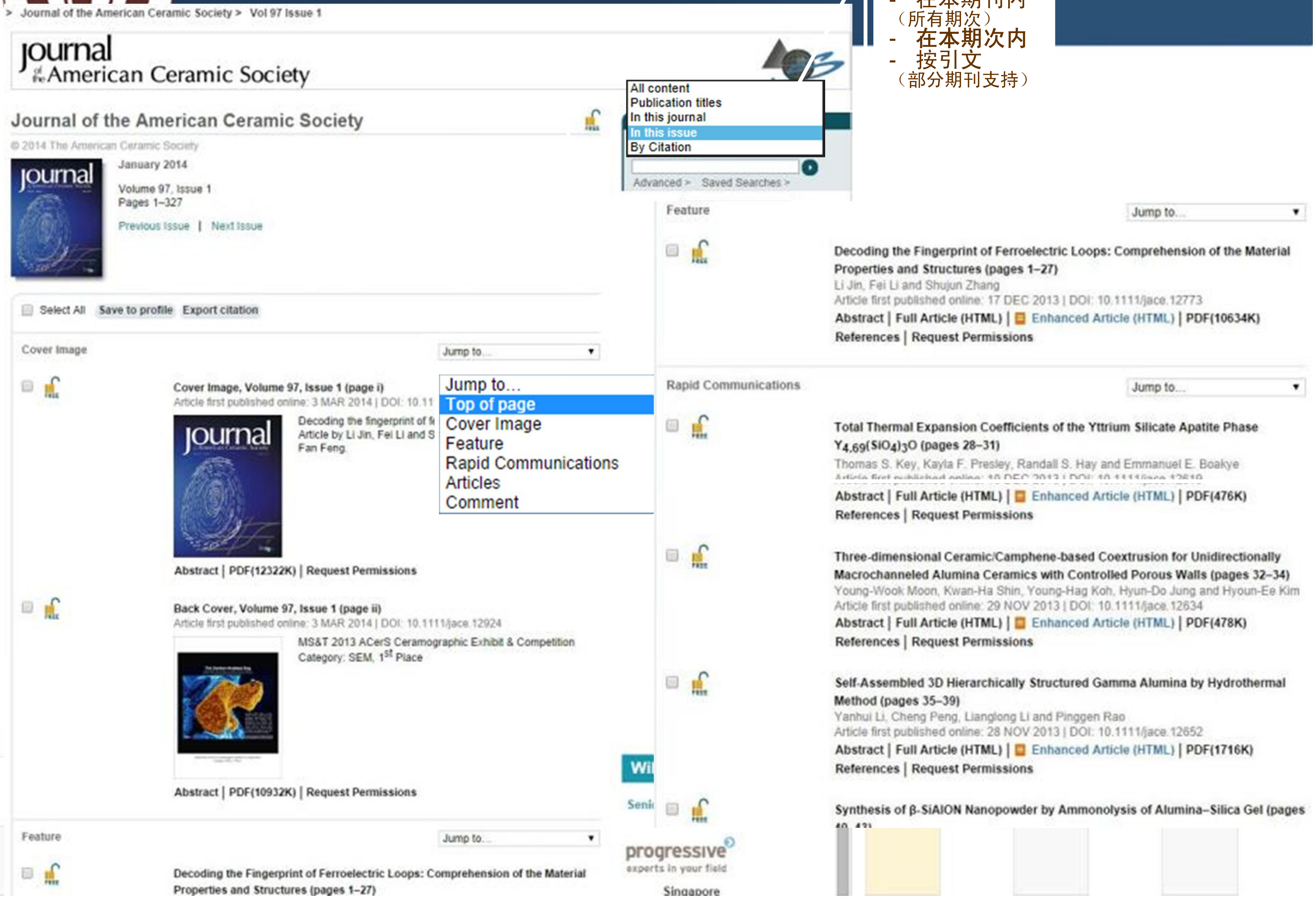

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Three-dimensional Ceramic/Camphene-based Coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls

Young-Wook Moon[1], Kwan-Ha Shin[1], Young-Hag Koh[1,2,*], Hyun-Do Jung[3] and Hyoun-Ee Kim[3]

Article first published online: 29 NOV 2013
DOI: 10.1111/jace.12634

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We report the utility of three-dimensional ceramic/camphene-based coextrusion, newly developed in this study, for the production of unidirectionally macrochanneled alumina ceramics with three-dimensionally interconnected porous alumina walls. In this technique, a continuous ceramic/camphene filament with a diameter of 1 mm, comprised of a pure camphene core and a frozen alumina/camphene shell, was produced by the coextrusion process and then deposited in a layer-by-layer sequence using a computer-controlled 3-axis moving table. Unidirectionally aligned macrochannels (~400 μm in diameter) and three-dimensionally interconnected pores (several tens of micrometers in size) in the alumina walls were created by removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively. The sample showed much higher compressive strength in the macrochannel direction than in the perpendicular direction. In addition, the compressive strength of the sample could increase with an increase in initial alumina content owing to a decrease in the total porosity.

I. Introduction

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The creation of highly oriented pores in ceramics is one of the most active research areas in bone tissue engineering [1] as it can resemble the anisotropic porous structure of natural cancellous bone and provide outstanding mechanical properties (i.e., high specific strength).[2] Extrusion using flammable fibers[3] and coextrusion[4, 5] traditionally have been used to produce porous ceramics with unidirectional pores. However, these techniques generally result in poor interconnection between the unidirectional pores, which limits their applications for bone tissue regeneration, where three-dimensionally interconnected pores are necessary.

More recently, unidirectional freeze casting has demonstrated its usefulness for creating highly aligned pores with excellent three-dimensional interconnectivity.[6-10] In

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First published: 29 November 2013 Full publication history

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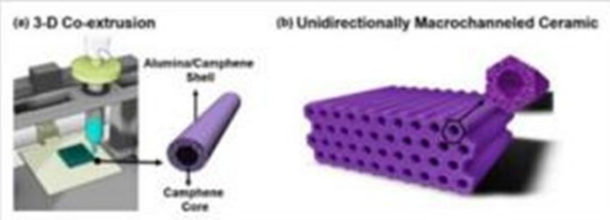

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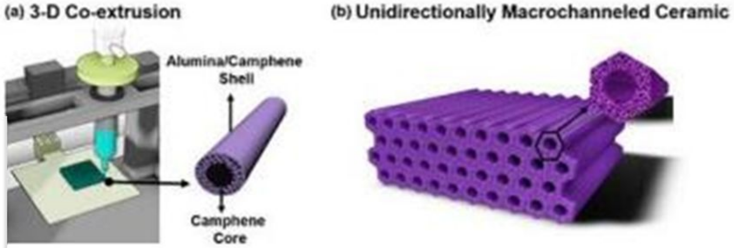
II. Experimental Procedure

Commercial alumina powder (Kojundo Chemical Co., Ltd, Saitama, Japan) with a mean particle size of 0.3 μm was used as the ceramic component, and camphene ($C_{10}H_{16}$; Sigma Aldrich, St Louis, MO) with a purity of 95% was used as the freezing vehicle and binder



(a) 3-D Co-extrusion
(b) Unidirectionally Macrochanneled Ceramic
Alumina/Camphene Shell
Camphene Core

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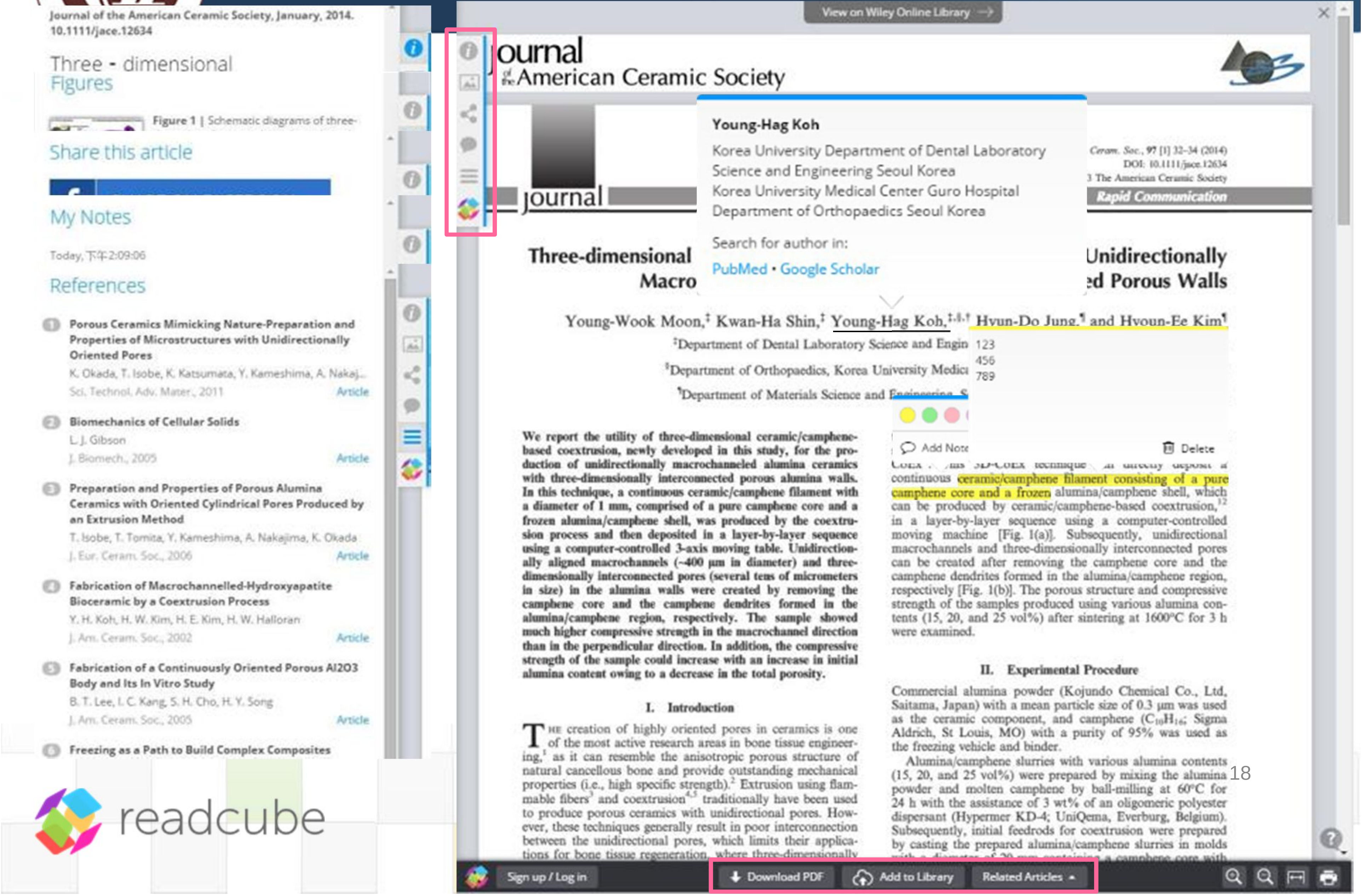

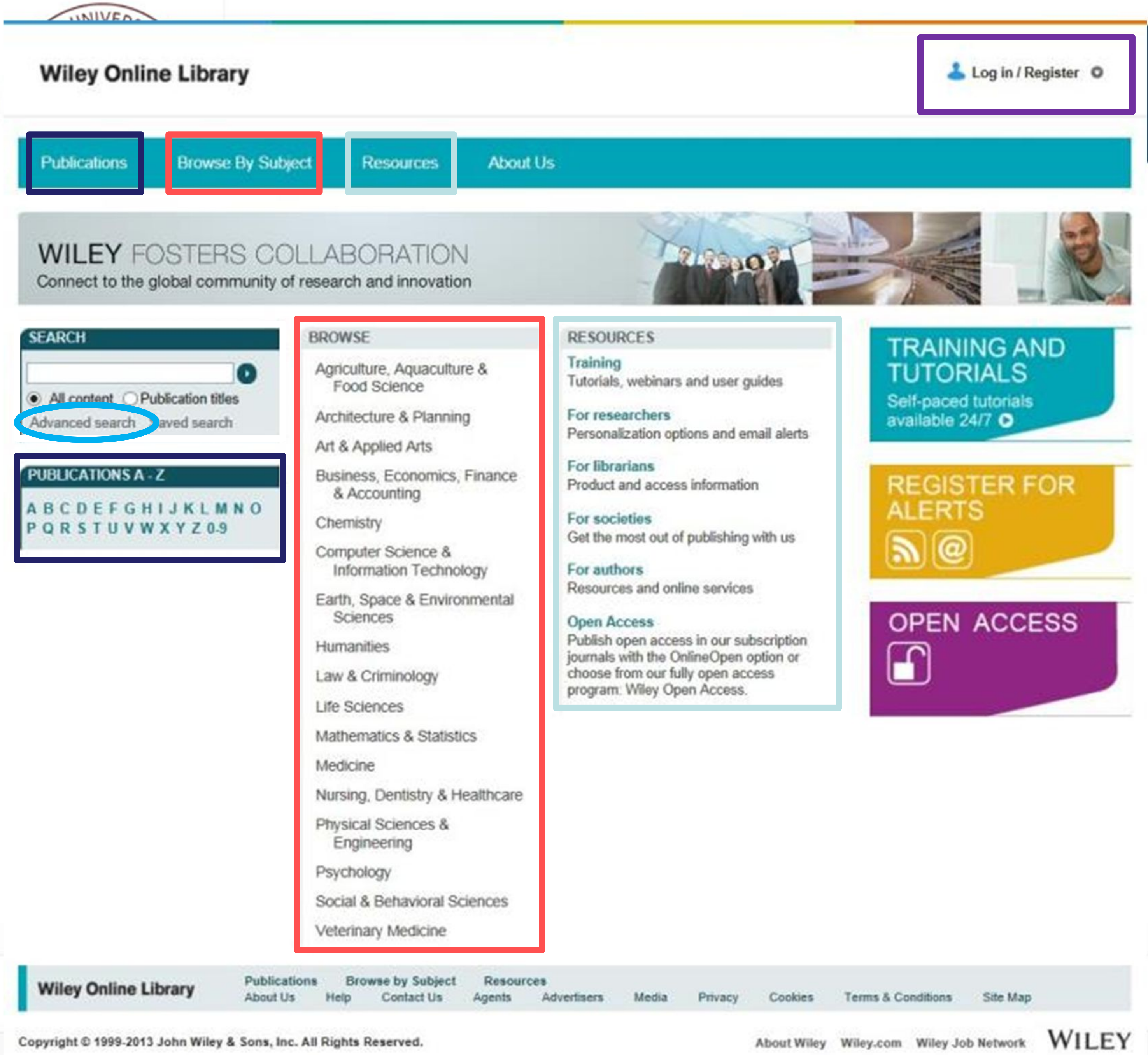

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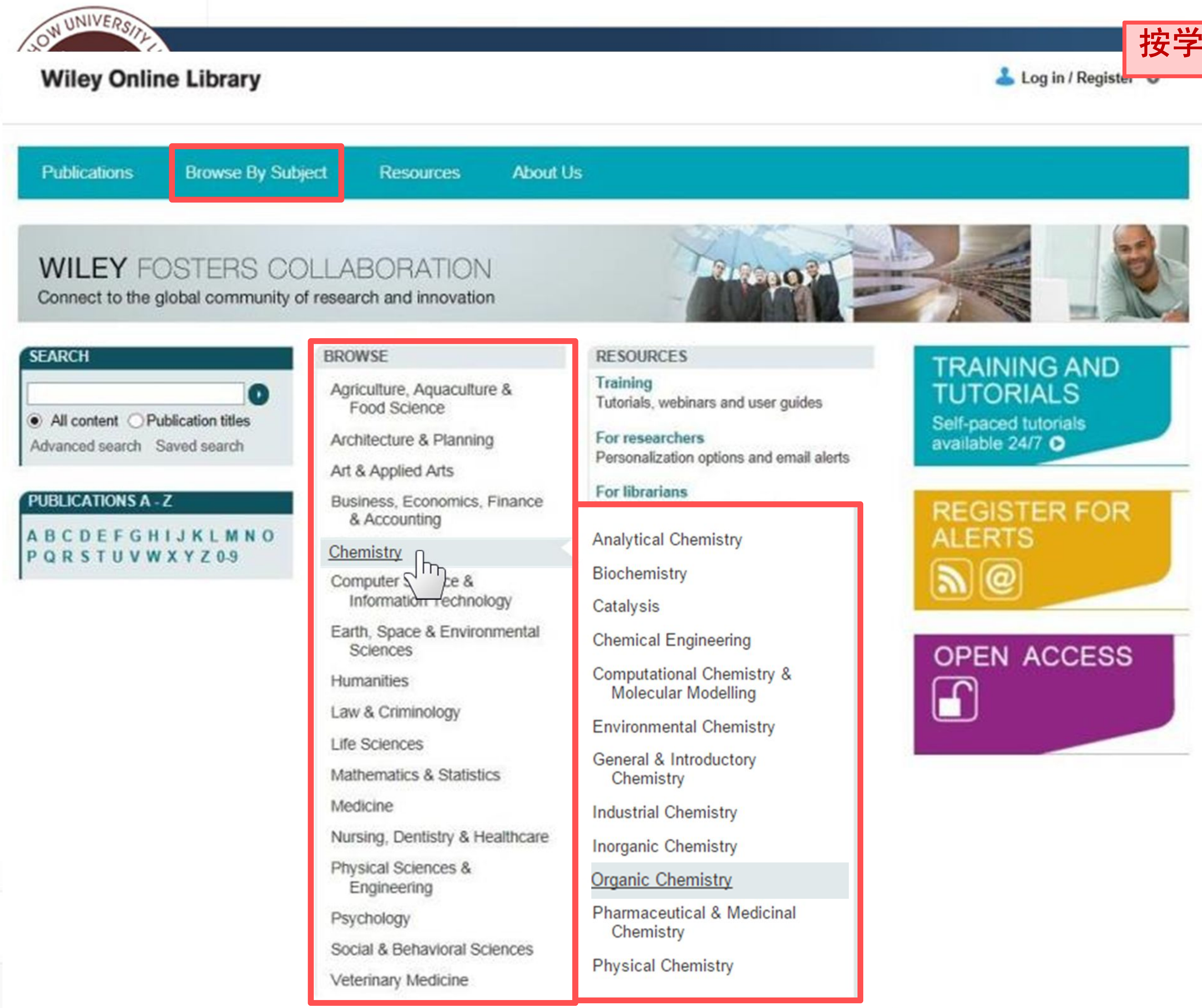

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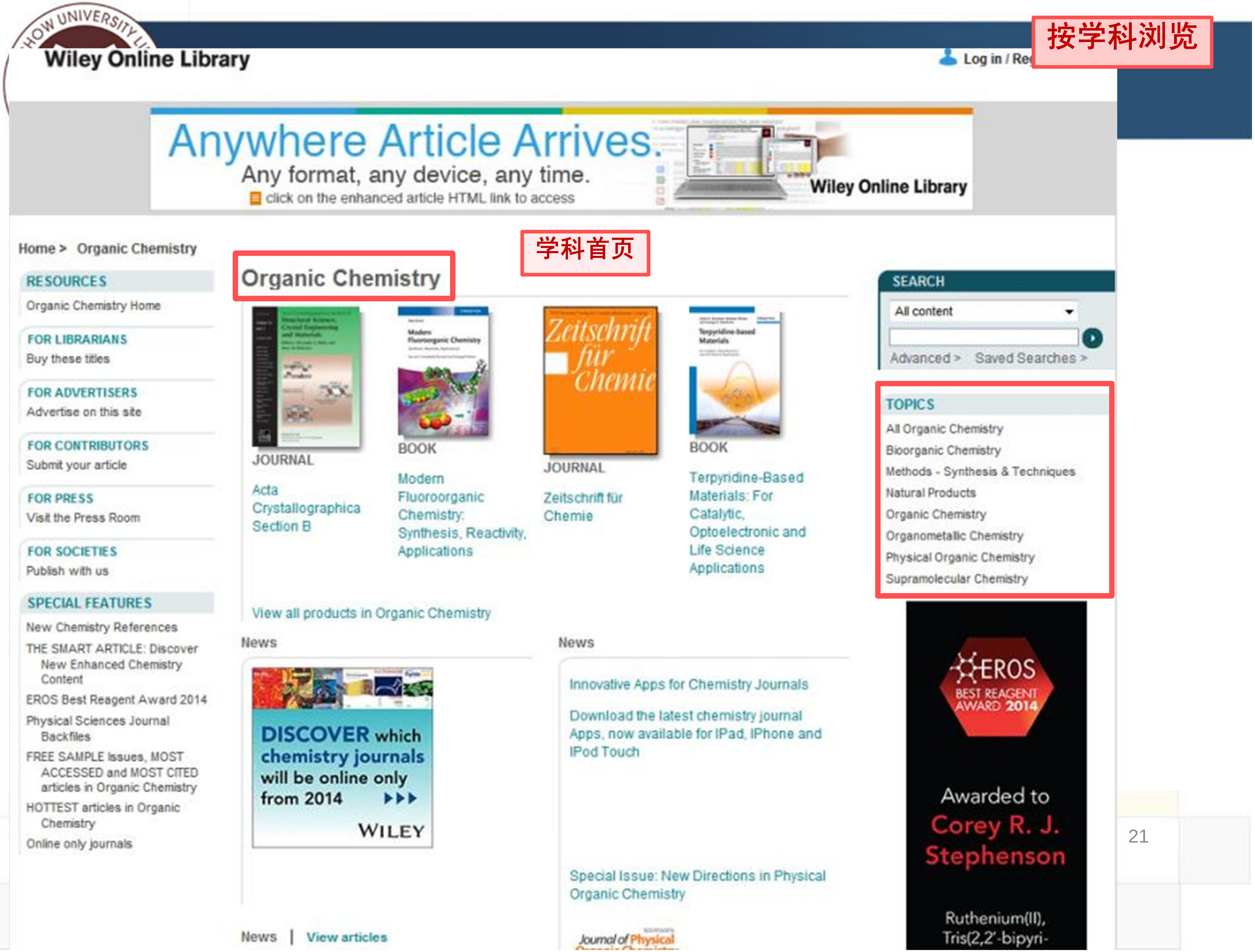
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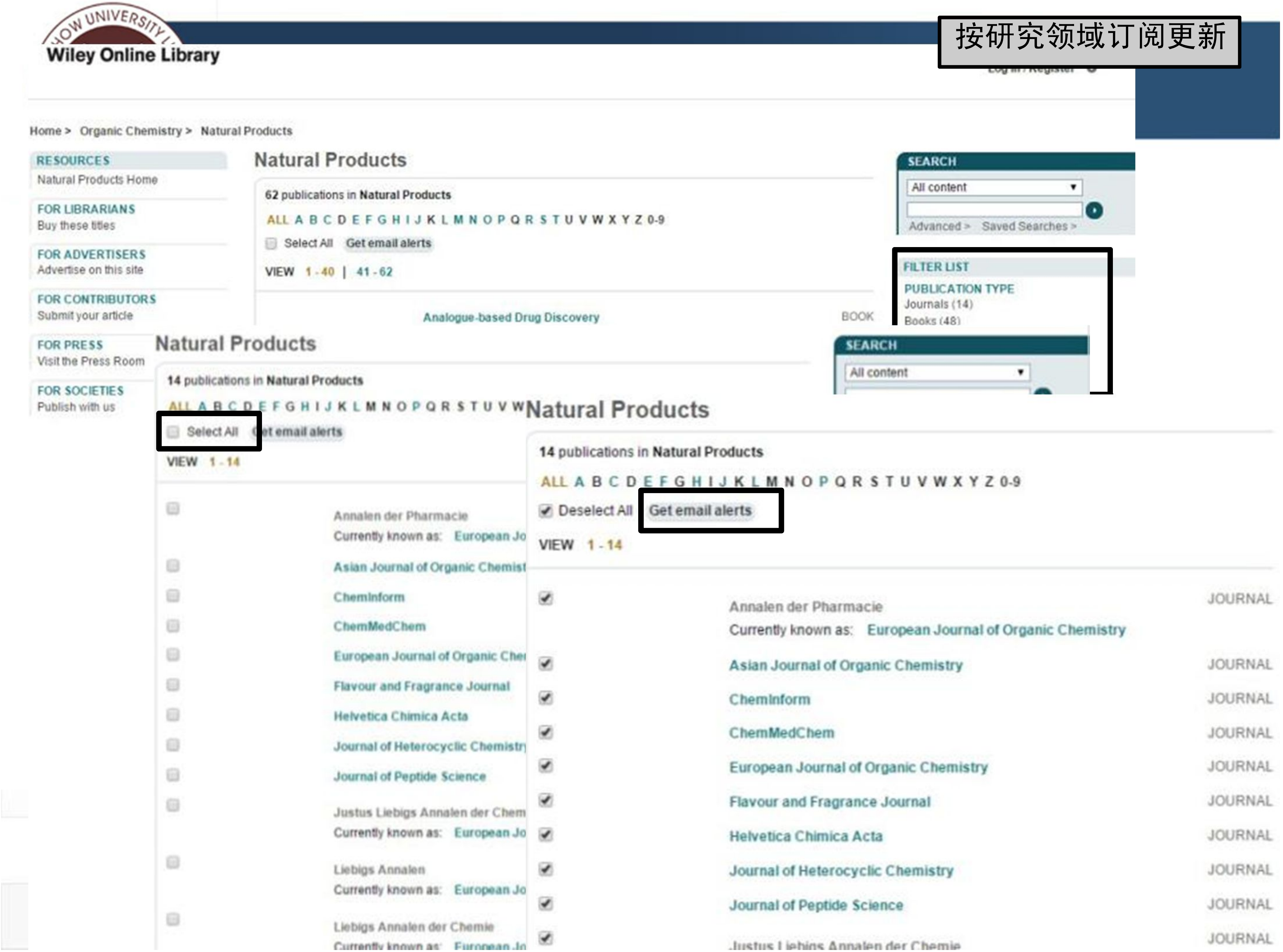

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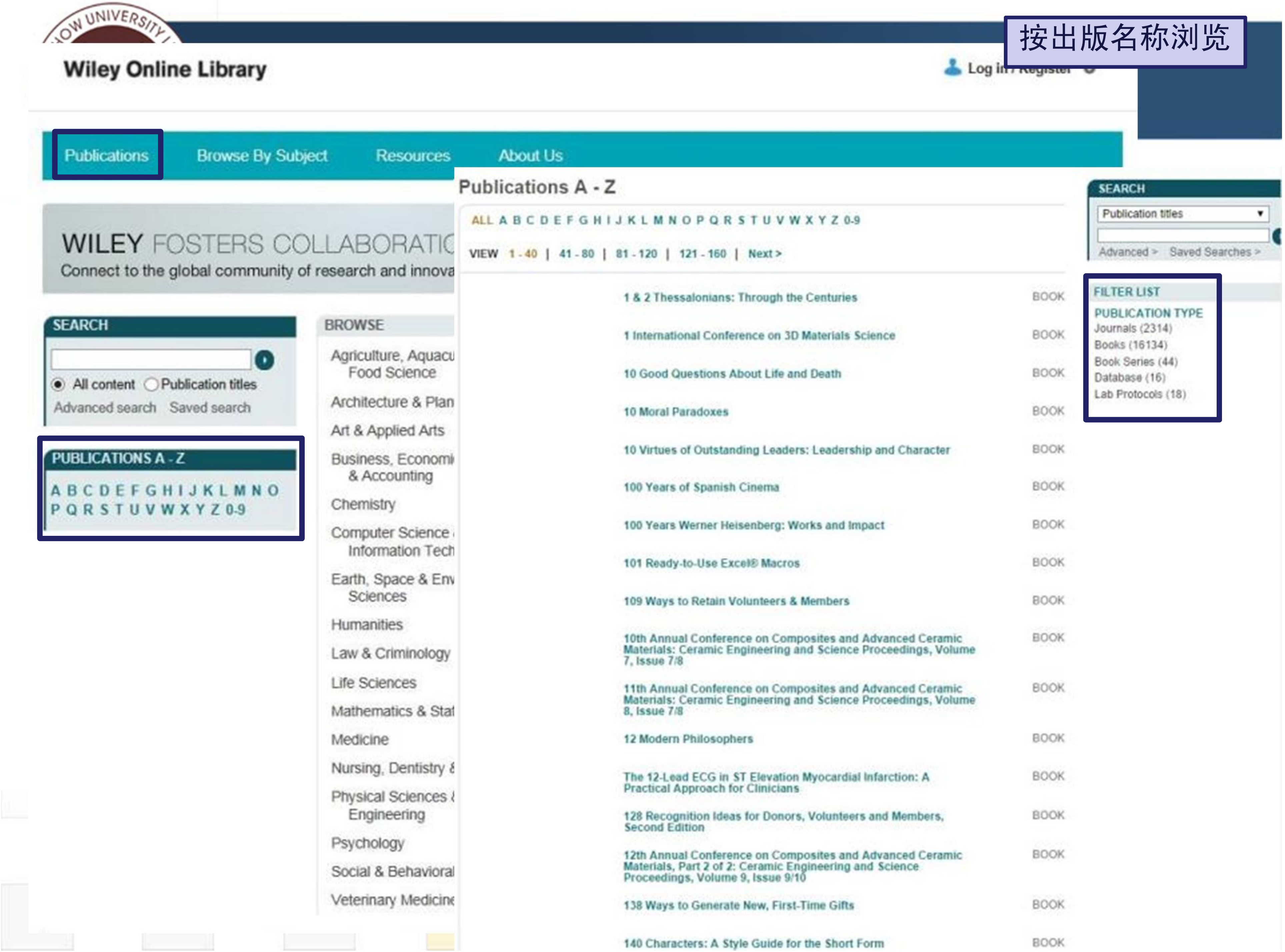

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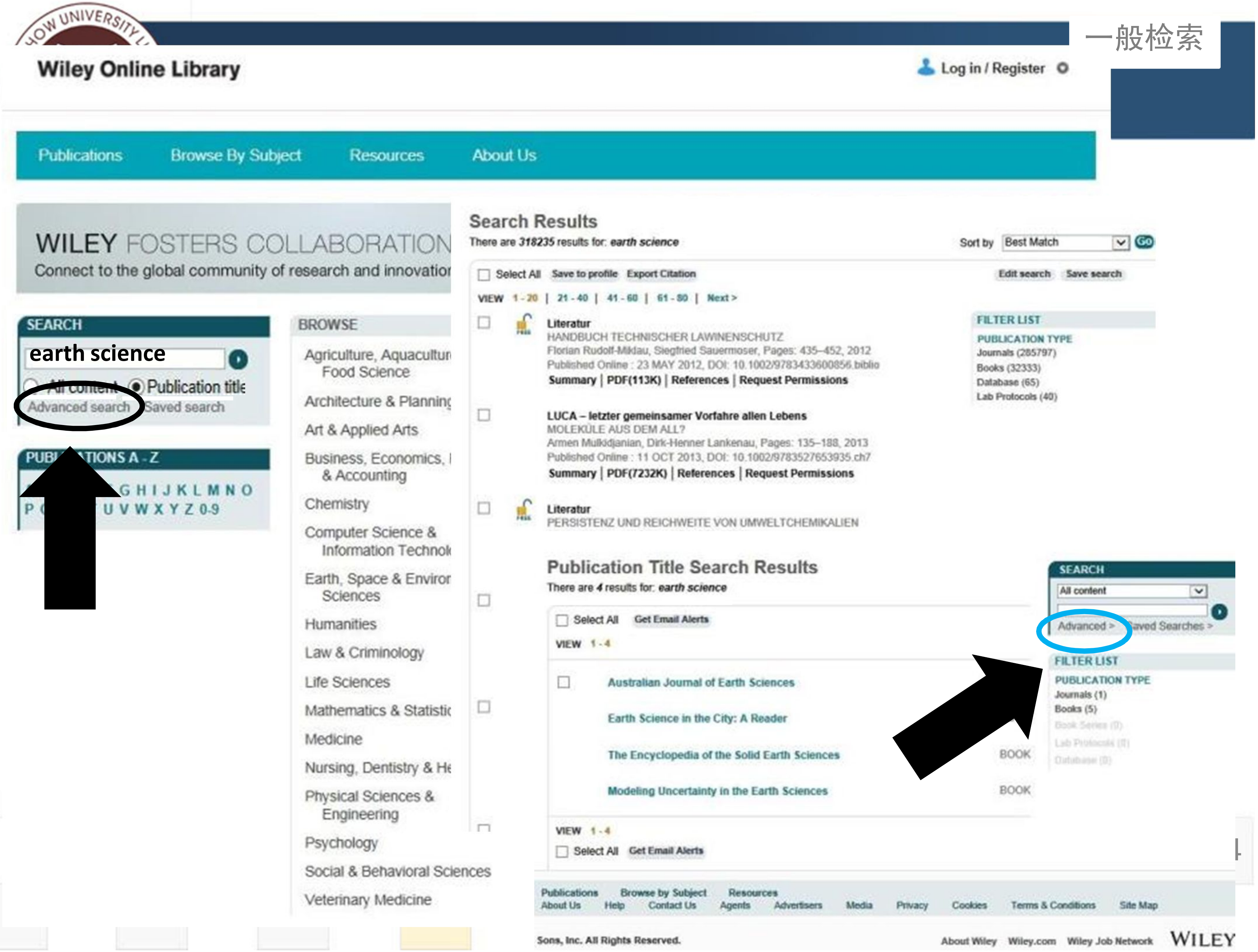

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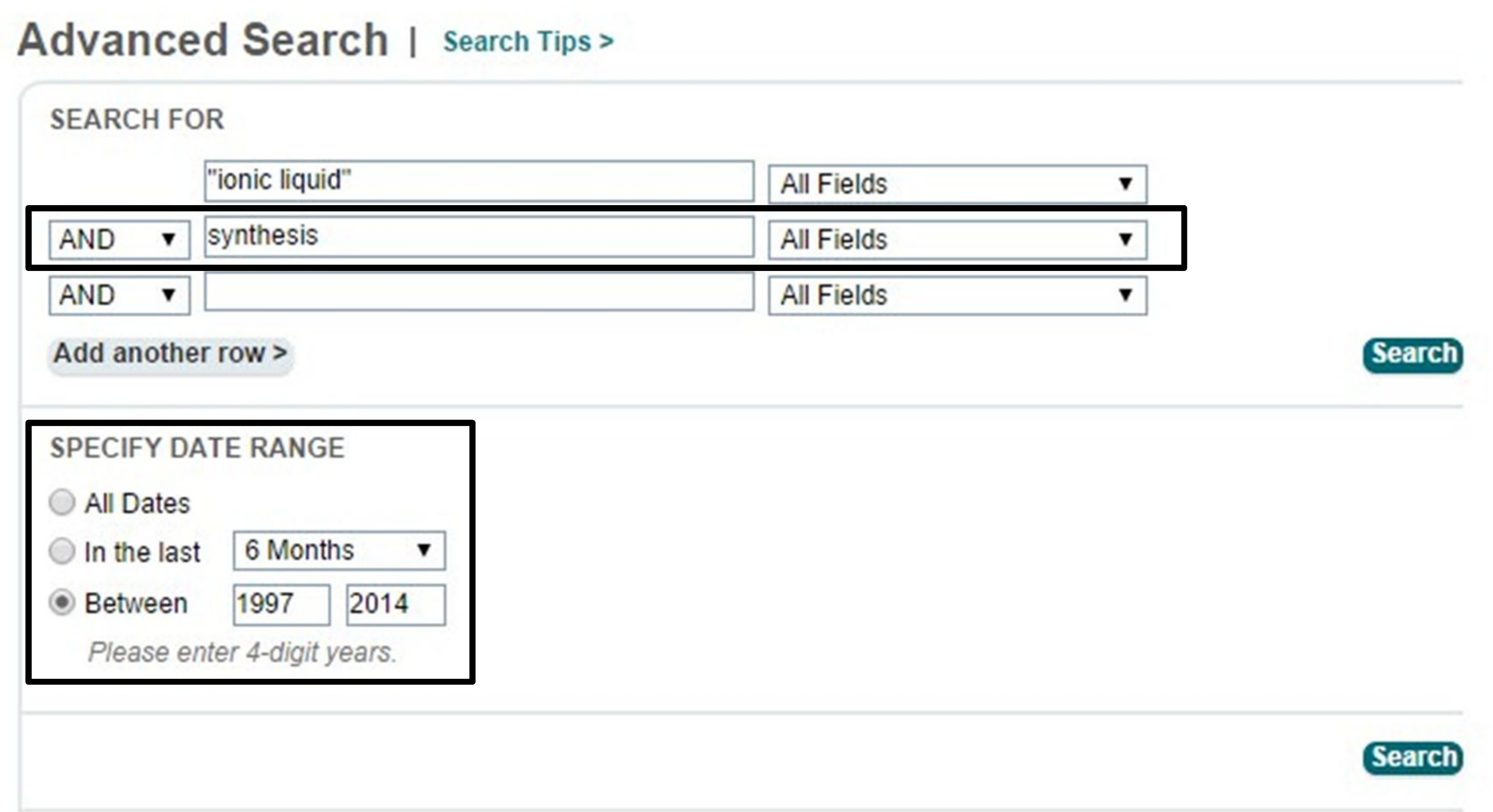

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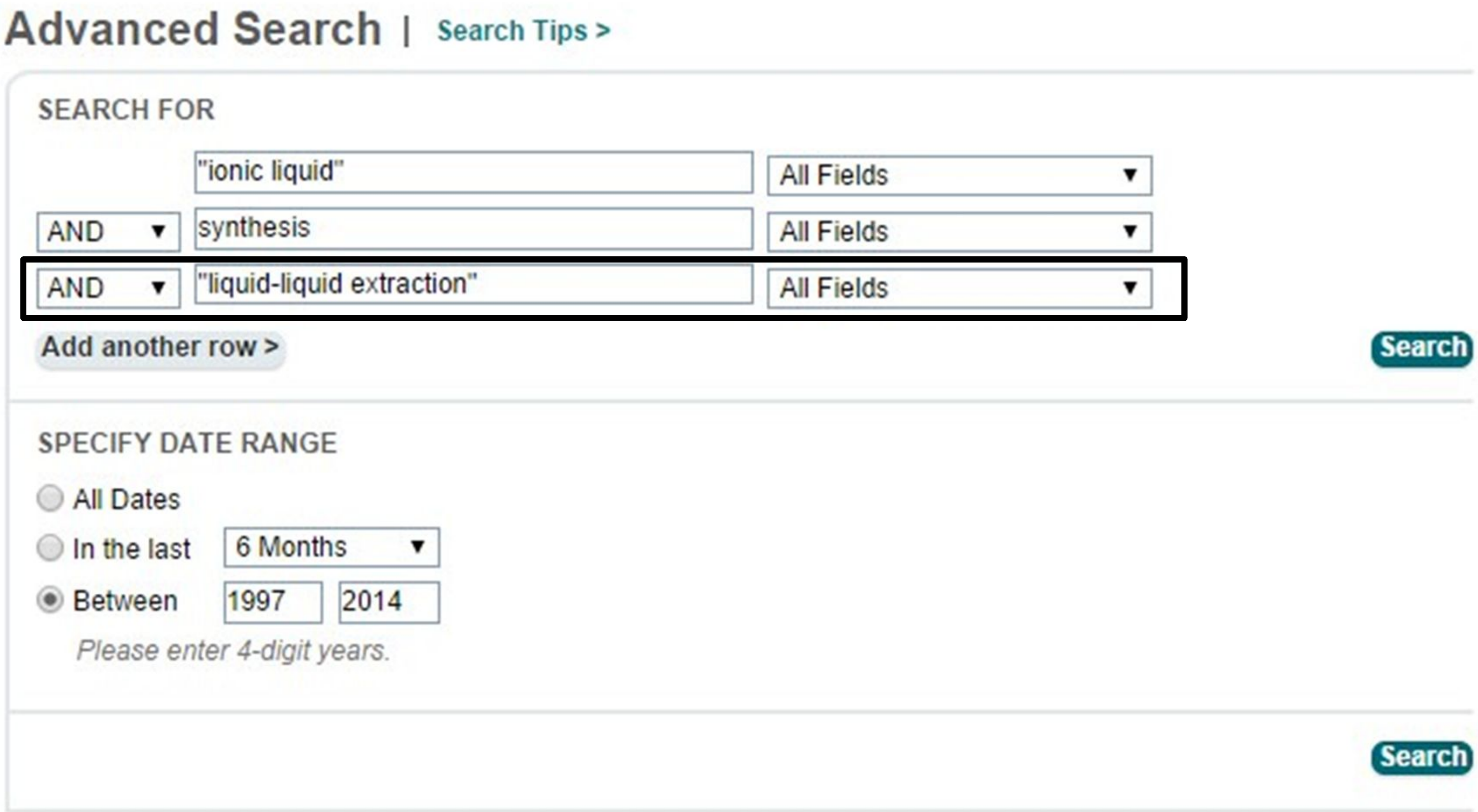

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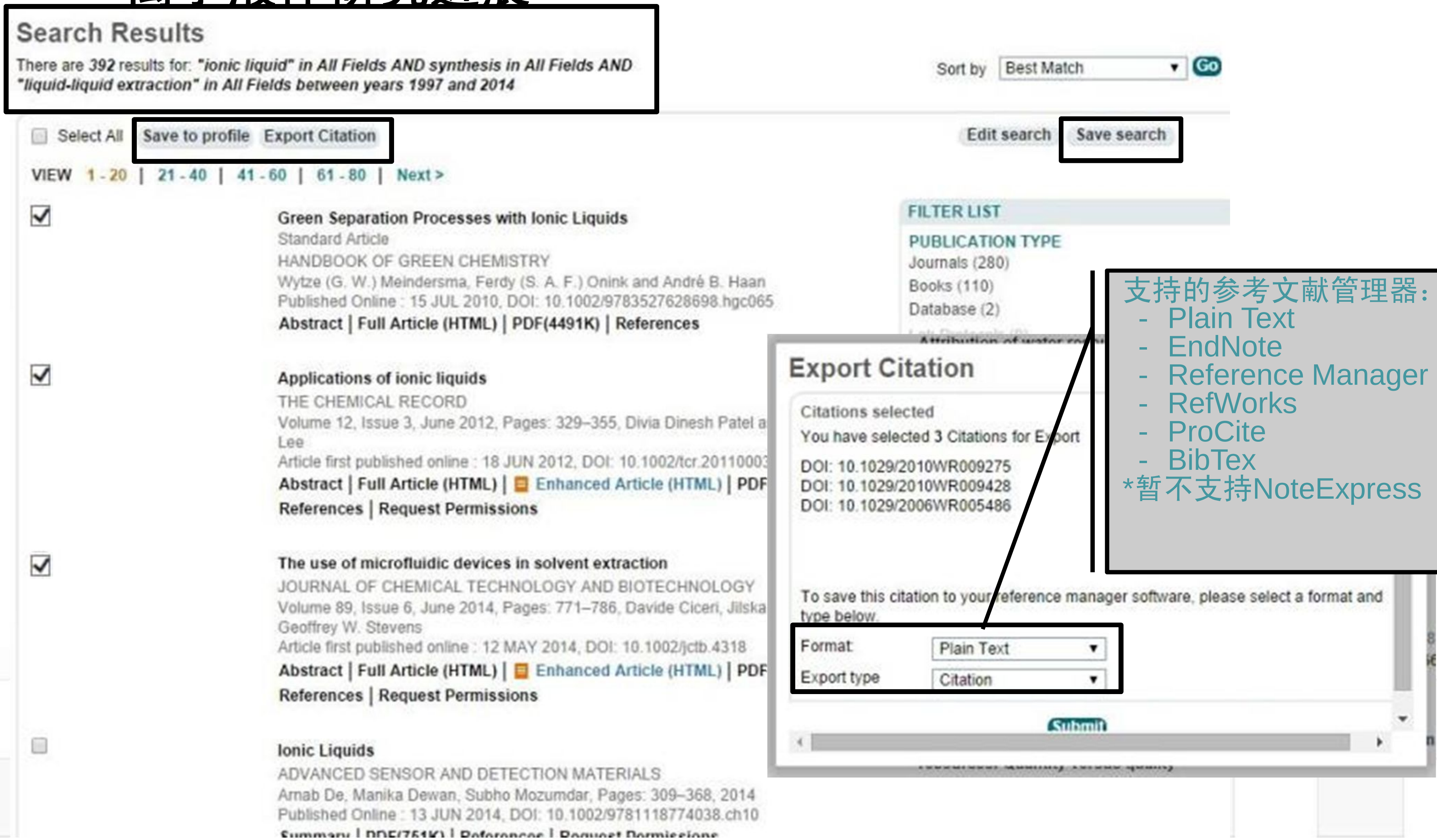

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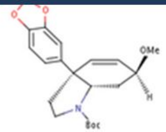

Compound 13-β

Molecular Weight: 373.4428

Molecular Formula: $C_{21}H_{27}NO_5$

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