



美國化學學會出版社簡介&平台操作手冊

<https://pubs.acs.org/>



智泉國際事業有限公司 VI Services Ltd  
(02)-2571-3369 | [service@igrouptaiwan.com](mailto:service@igrouptaiwan.com)

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## ACS Publications

### 簡介

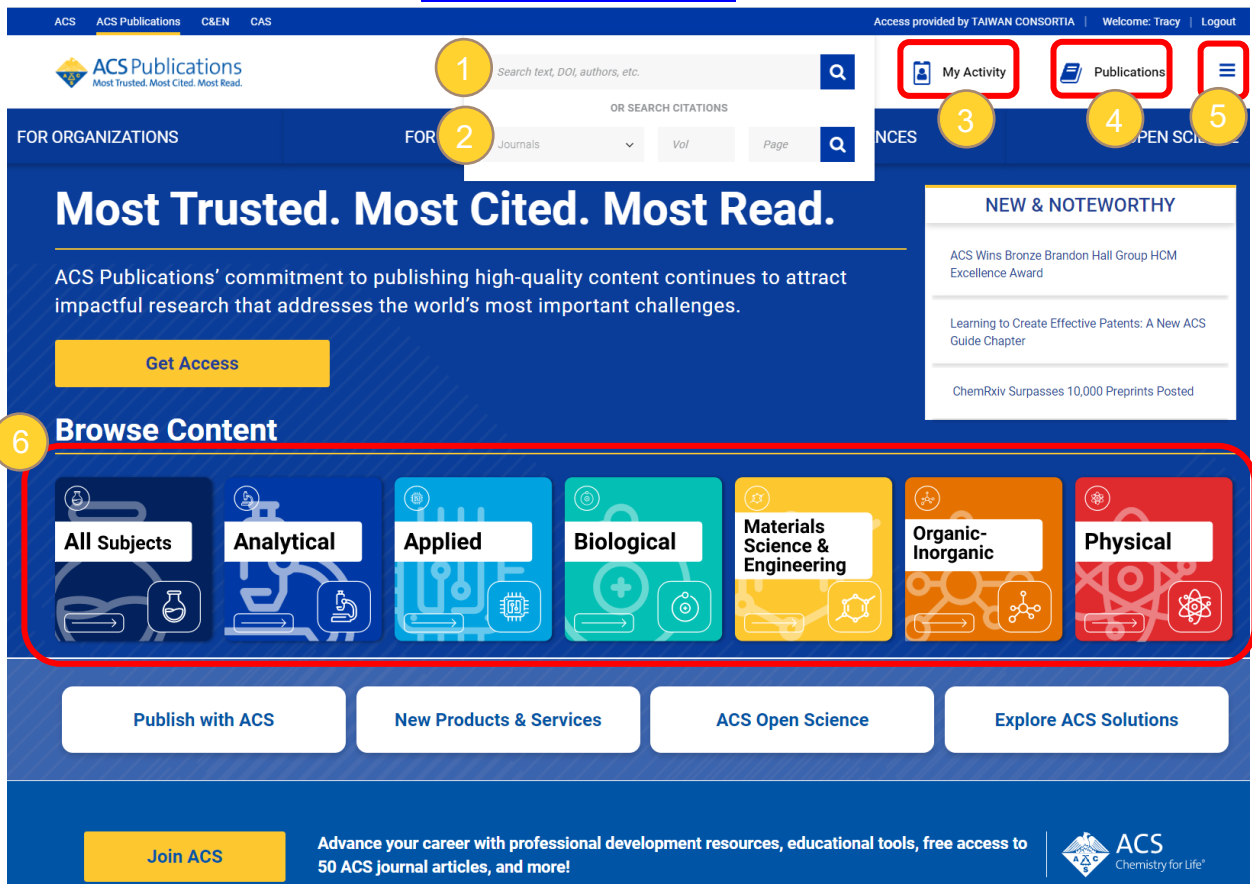
美國化學學會為世界最大的非營利科學學會之一，自 1876 年成立以來，始終致力於支持科學發展，提供全球性科學交流平台。其旗下的美國化學學會出版社，多年來出版高品質期刊及電子書，提供研究者們最佳的研究資源。

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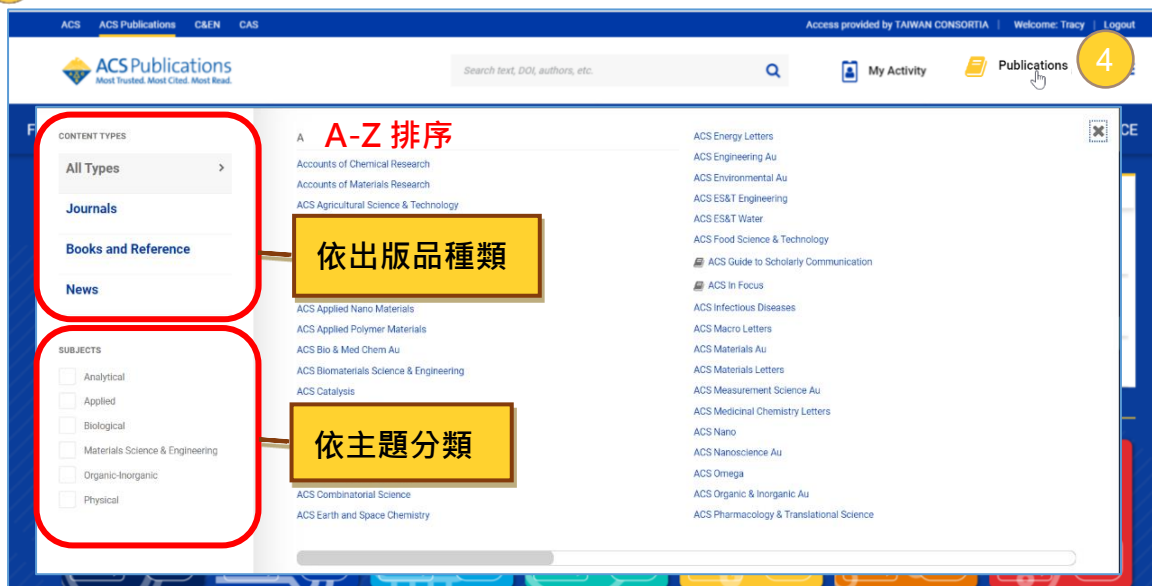
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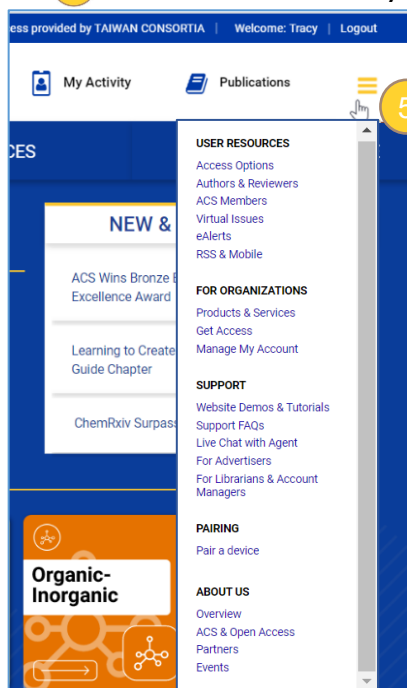
The screenshot shows the ACS Publications homepage. At the top, there is a navigation bar with 'ACS Publications', 'C&EN', and 'CAS'. A search bar is prominently displayed with a magnifying glass icon. Below the search bar, there are sections for 'FOR ORGANIZATIONS' and 'FOR INDIVIDUALS'. The main banner features the slogan 'Most Trusted. Most Cited. Most Read.' and a 'Get Access' button. A 'Browse Content' section is highlighted with a red box and a yellow callout '6', showing various scientific disciplines like 'All Subjects', 'Analytical', 'Applied', 'Biological', 'Materials Science & Engineering', 'Organic-Inorganic', and 'Physical'. Other callouts include '1' for the search bar, '2' for the 'OR SEARCH CITATIONS' filters, '3' for 'My Activity', '4' for 'Publications', and '5' for the menu icon.

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- 4 ~ 5 說明請見 [P.2](#)。
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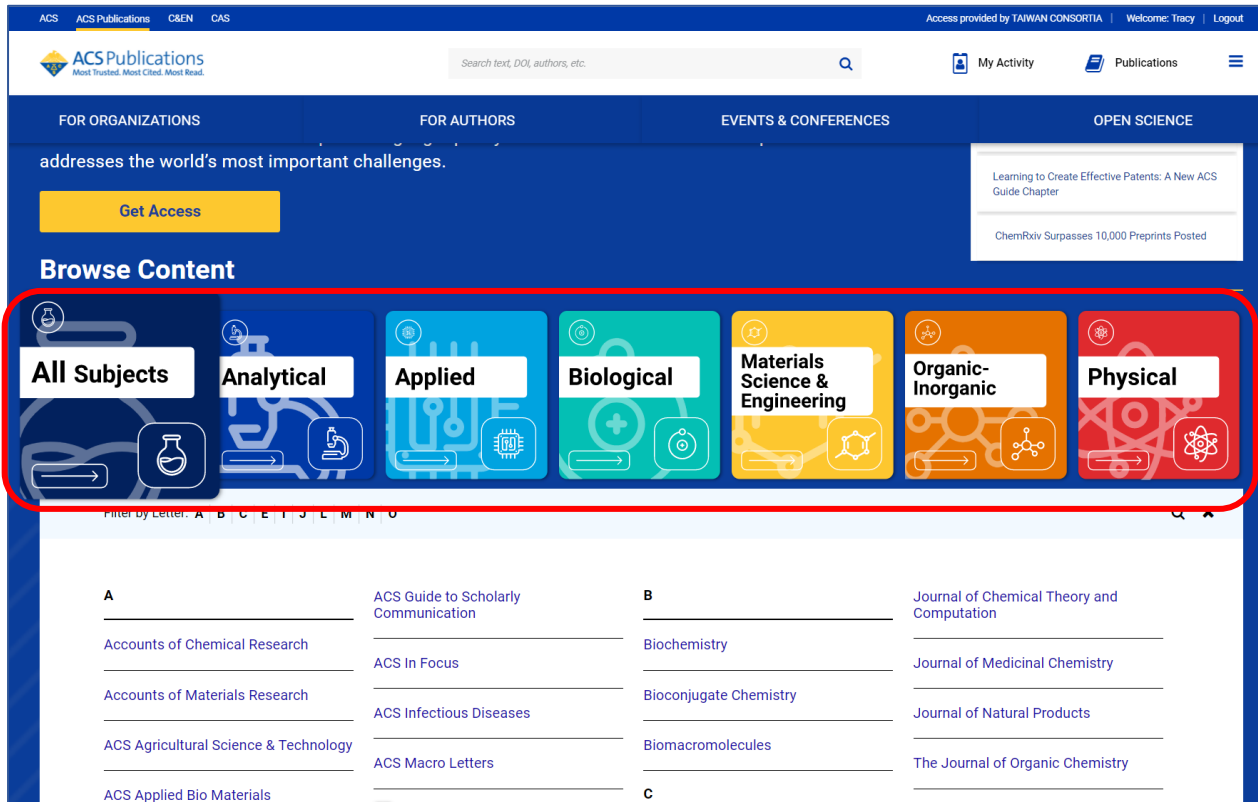
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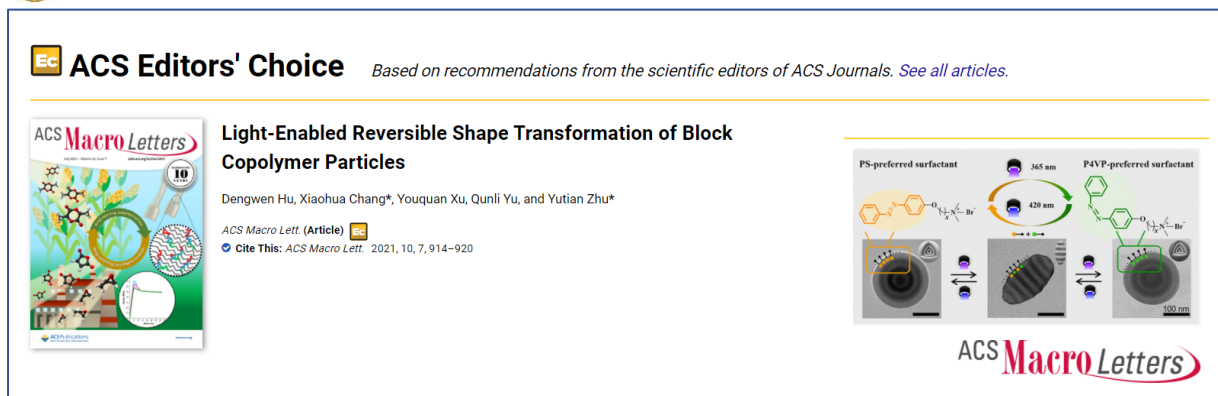
The screenshot shows the ACS Publications website interface. At the top, there is a navigation bar with 'ACS Publications', 'C&EN', and 'CAS'. Below this is a search bar and user options like 'My Activity' and 'Publications'. The main navigation includes 'FOR ORGANIZATIONS', 'FOR AUTHORS', 'EVENTS & CONFERENCES', and 'OPEN SCIENCE'. A prominent 'Browse Content' section is highlighted with a red box, featuring seven color-coded tiles for different scientific fields: All Subjects, Analytical, Applied, Biological, Materials Science & Engineering, Organic-Inorganic, and Physical. Below these tiles, there is a grid of journal titles organized by letter (A, B, C).

7 ACS : 美國化學會網站，加入會員享有更多資源



A blue banner for ACS membership. On the left is a yellow 'Join ACS' button. The text reads: 'Advance your career with professional development resources, educational tools, free access to 50 ACS journal articles, and more!'. On the right is the ACS logo with the tagline 'Chemistry for Life'.

8 ACS Editor Choice : 編輯每日會精選一篇文章，並限時免費開放全文給所有讀者。



The screenshot shows an 'ACS Editor's Choice' article preview. It features the 'ACS Macro Letters' journal cover on the left. The article title is 'Light-Enabled Reversible Shape Transformation of Block Copolymer Particles' by Dengwen Hu, Xiaohua Chang\*, Youquan Xu, Qunli Yu, and Yutian Zhu\*. Below the title, it says 'ACS Macro Lett. (Article)' and 'Cite This: ACS Macro Lett. 2021, 10, 7, 914-920'. On the right, there is a diagram illustrating the reversible shape transformation of block copolymer particles using PS-preferred and P4VP-preferred surfactants under different light conditions (365 nm and 420 nm). The ACS Macro Letters logo is at the bottom right.



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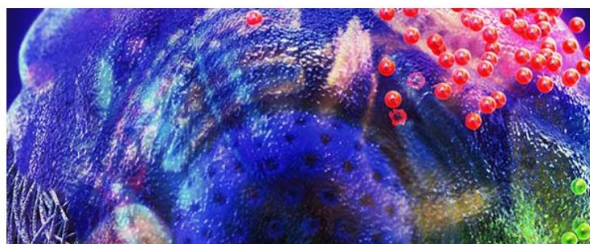
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- 14 ACS Institute：ACS 線上課程，幫助科學家職涯發展。
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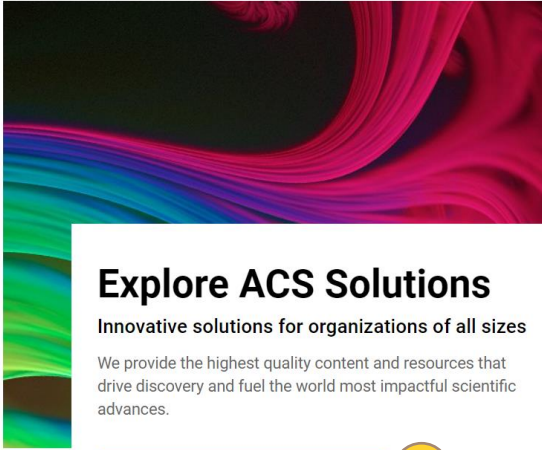


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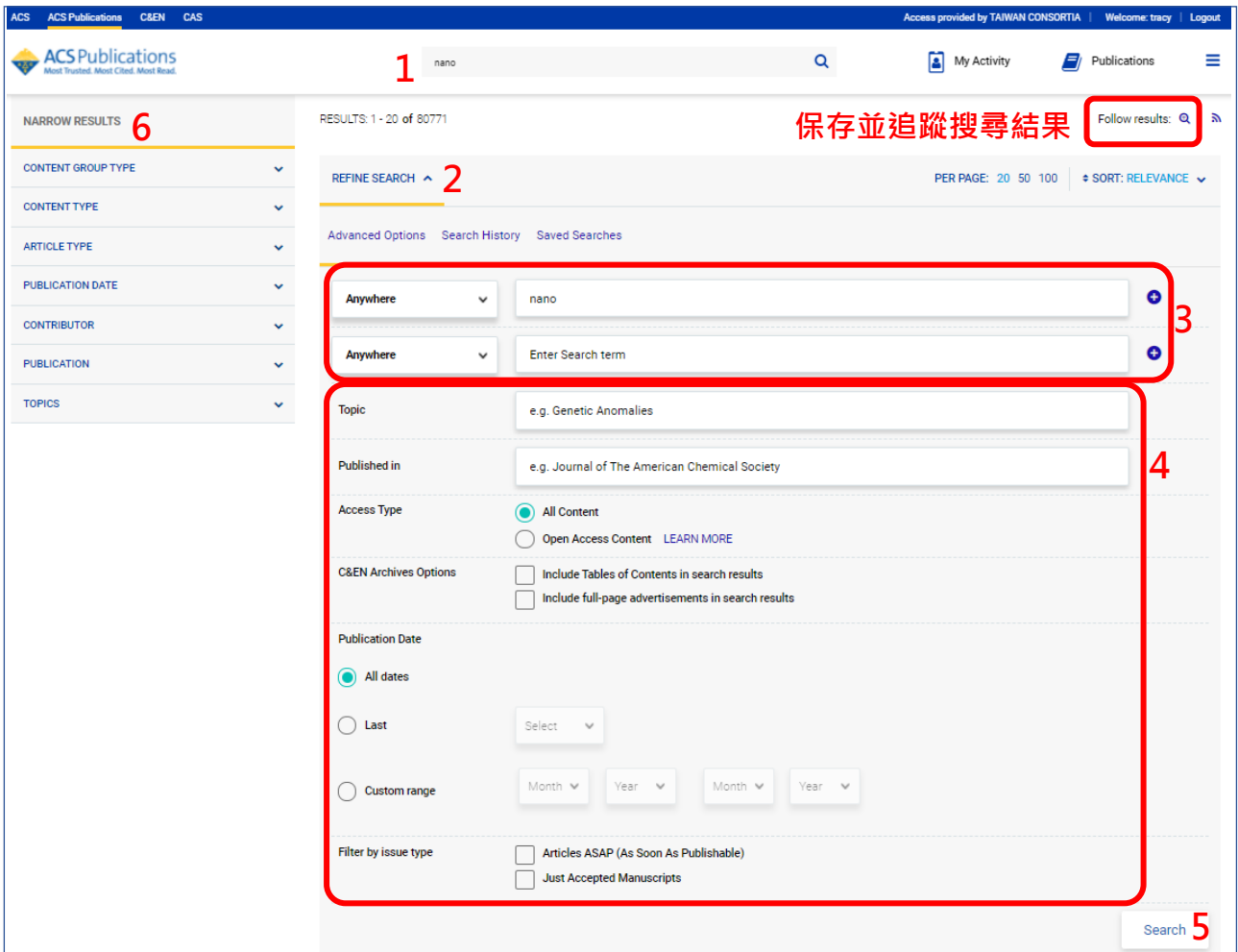
1. 直接進入進階搜索 <http://pubs.acs.org/search/advanced>，或待初步搜索結果出現後
2. 點擊展開 REFINE SEARCH 可進階檢索，或瀏覽搜索歷史紀錄及保存的搜尋結果。
3. 輸入搜索字串，利用“+”可新增並同時輸入不同搜尋範圍關鍵字串，如：標題、作者、文章概述、文章圖表等。
4. 利用主題、刊登期刊、文章權限模式\*、出版日期等條件限縮查詢結果。

\*Open Access Content：開放取用文章，未訂閱也可以瀏覽全文，包含以下兩種模式：

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5. 點擊 Search 開始搜尋
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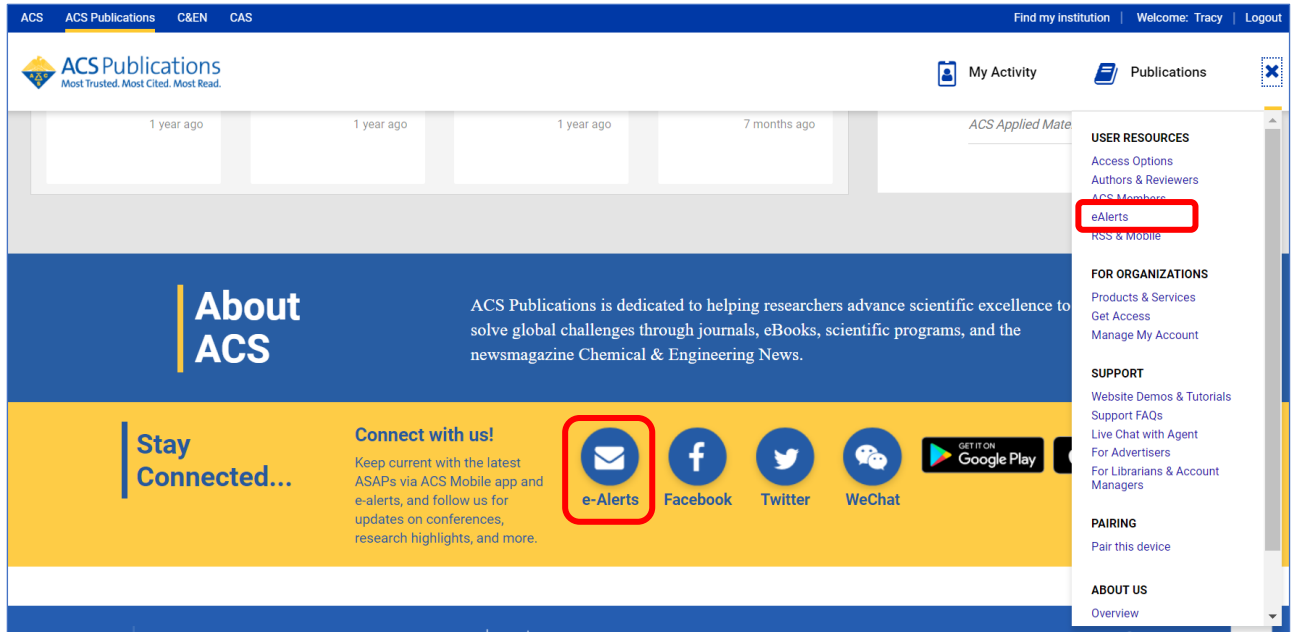


The screenshot shows the ACS Publications advanced search page. The search term "nano" is entered in the search bar (1). The left sidebar shows "NARROW RESULTS" (6) with various filters. The main area has a "REFINE SEARCH" section (2) with a search bar (3) containing "nano" and a "Follow results" button. Below the search bar are various filters (4) such as "Topic" (e.g. Genetic Anomalies), "Published in" (e.g. Journal of The American Chemical Society), "Access Type" (All Content selected), "C&EN Archives Options", "Publication Date" (All dates selected), and "Filter by issue type". A "Search" button (5) is at the bottom right. A red box highlights the search bar and the filter section. The text "保存並追蹤搜尋結果" is written in red above the "Follow results" button.

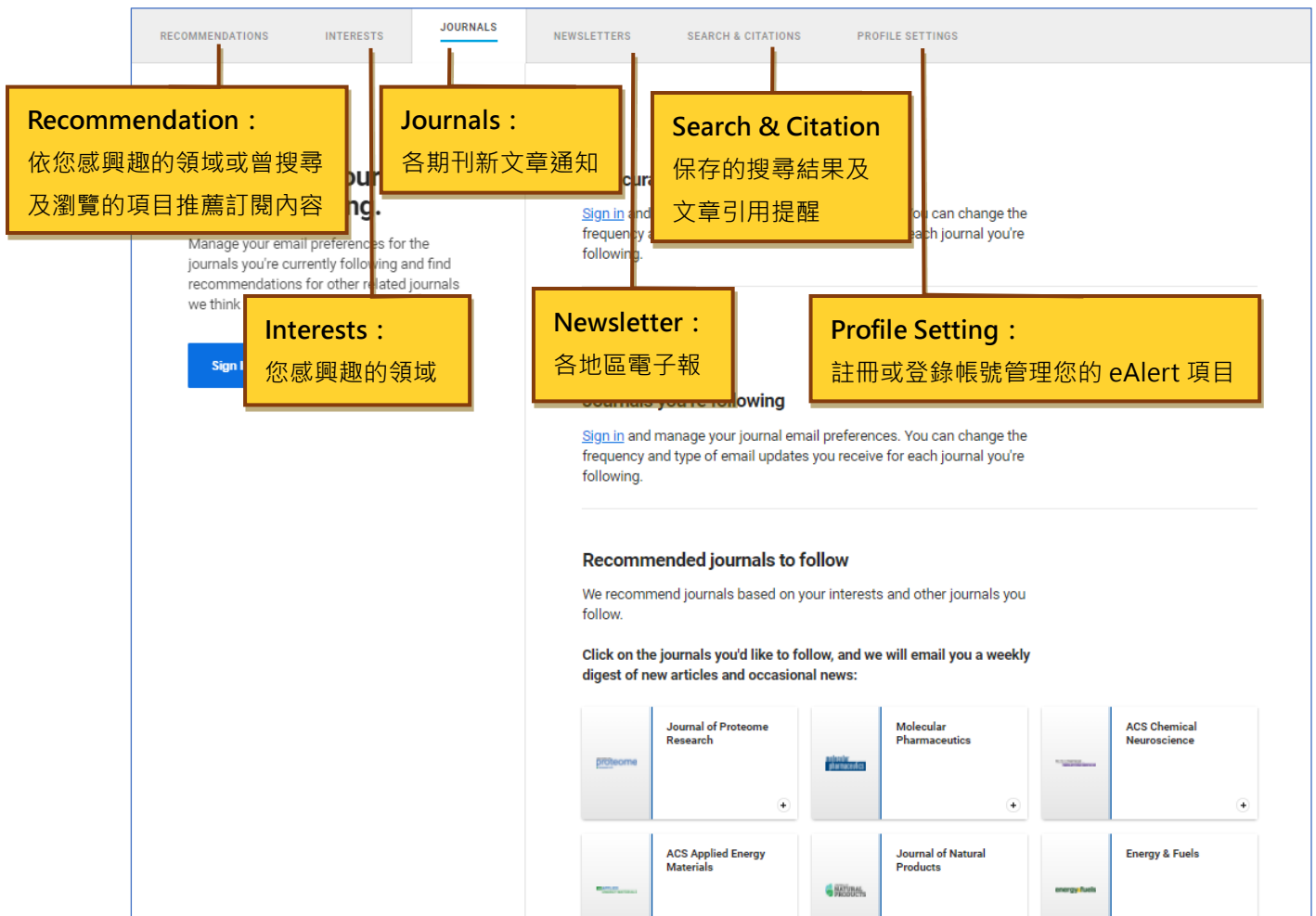


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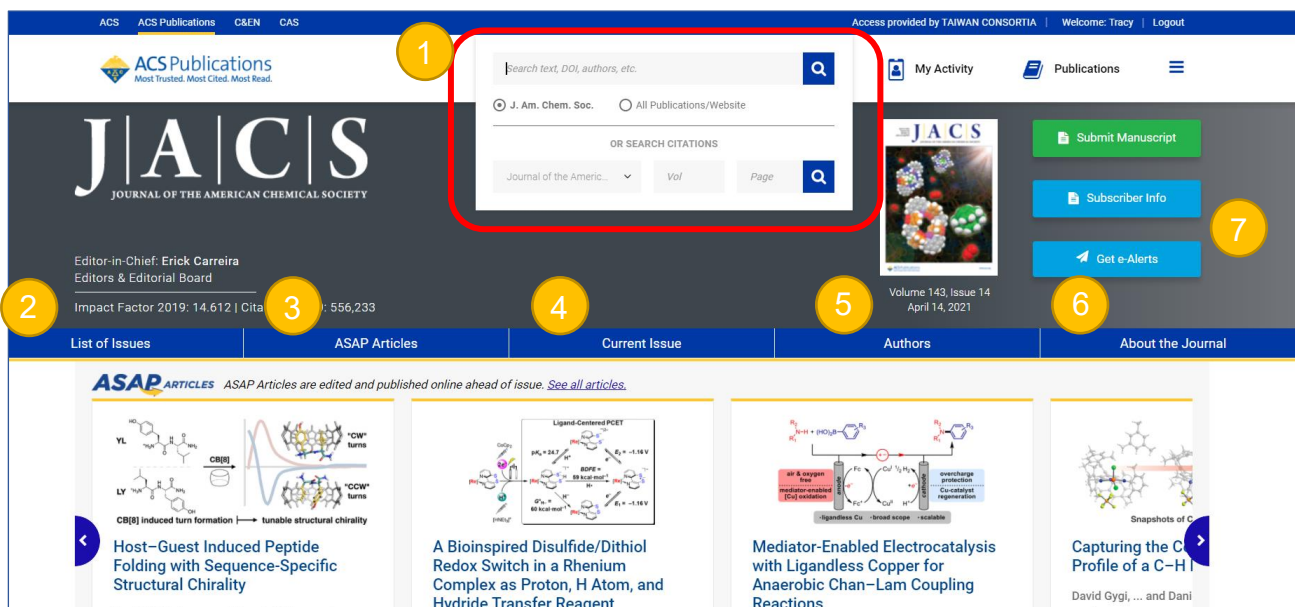


## ACS 期刊

### 簡介

由美國化學學會所出版的專業期刊，廣泛地涵蓋化學相關領域主題，包含分析化學、食品科學、材料科學、醫藥化學、毒物學、生物化學等，累積近 130 年的化學原始研究，三百萬頁、超過 800,000 篇經過同儕評論高品質的文章。其有機化學、醫藥化學、材料科學、物理化學和跨學科化學類期刊的被引用量佔該學科總引用量的 30%，並且擁有耀眼的影響指數，多本期刊被 ISI 的 Journal Citation Report (JCR) 評為該領域中排名第一的化學期刊。

### 首頁



The screenshot shows the ACS Publications website homepage for JACS. The page features a search bar at the top (1), navigation tabs for 'List of Issues' (2), 'ASAP Articles' (3), 'Current Issue' (4), 'Authors' (5), and 'About the Journal' (6). On the right side, there are buttons for 'Submit Manuscript', 'Subscriber Info', and 'Get e-Alerts' (7). The main content area displays several featured articles with chemical structures and titles, such as 'Host-Guest Induced Peptide Folding with Sequence-Specific Structural Chirality' and 'A Bioinspired Disulfide/Dithiol Redox Switch in a Rhenium Complex as Proton, H Atom, and Hydride Transfer Reagent'.

- 1 檢索欄位：可依內容文字、DOI 或作者等關鍵字搜尋，亦可設定搜索範圍為本期刊或所有出版品
- 2 List of Issues：歷年卷期
- 3 ASAP Articles：最新文章檢索(包括還未正式發行出版的文章)，ACS Web Edition 使用者可以在文章被作者授權發布後 24 到 48 小時內，以最快的時間查閱尚未正式出版於最新目次的內容。
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9 最新卷期文章：

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**Machine Learning Guided Synthesis of Multinary Chevrel Phase Chalcogenides**

Nicholas R. Singstock, ...  
June 9, 2021



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Jinkwan Choi, Hyangsoo Jeong\*, Juyoung Jang...  
June 10, 2021



**Accelerated Discovery of  $\alpha$ -Cyanodiarylethene Photoswitches**

Niklas F. König, Dragos Mutruc, and ...  
June 11, 2021

10 依學科搜尋本刊中的文章：

**Browse by Subject** *Select a subject area to discover related terms and applicable articles.*

**All Subject Areas**

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- Materials science

**Physical chemistry**

- Chemical structure
- Molecules**
- Spectroscopy
- Quantum mechanics
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[See All \(48932\)](#)

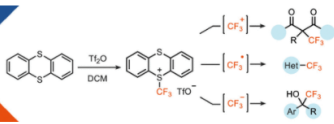
**Molecules**

- Molecular structure (10489)
- Macrocycles (776)
- Molecular interactions (430)
- Macromolecules (70)

[See All \(16801\)](#)


11 最多人閱讀文章：

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**Trifluoromethyl Thianthrenium Triflate: A Readily Available Trifluoromethylating Reagent with Formal CF<sub>3</sub><sup>+</sup>, CF<sub>3</sub><sup>+</sup>, and CF<sub>3</sub><sup>-</sup> Reactivity**

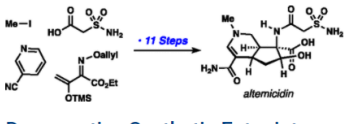
Hao Jia, ... and Tobias Ritter\*  
May 14, 2021



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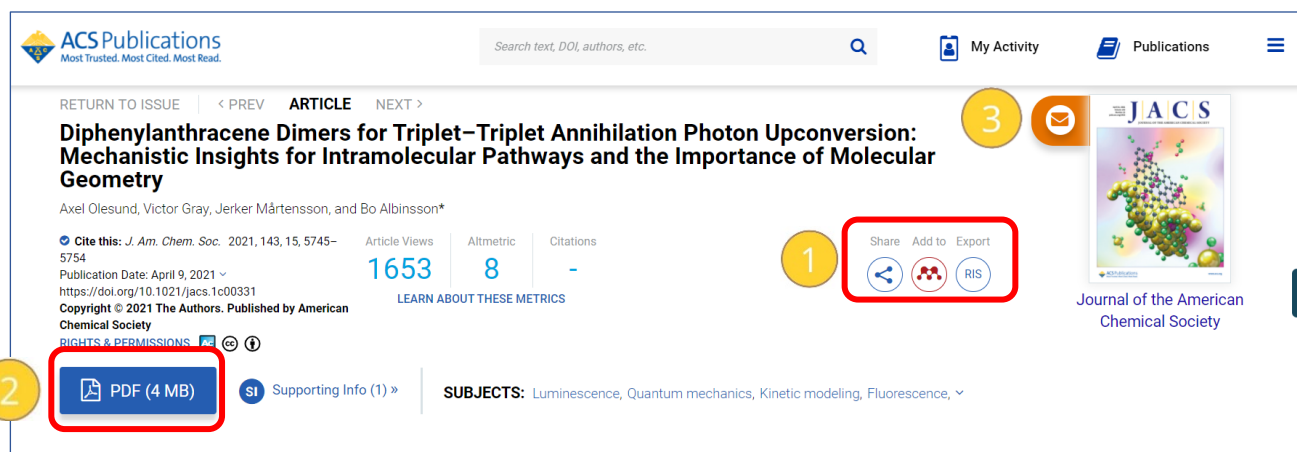


**Dearomative Synthetic Entry into the Altemicidin Alkaloids**

Claire S. Harmange Magnani, ... and Thomas J. Maimone\*  
May 21, 2021



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### Diphenylanthracene Dimers for Triplet–Triplet Annihilation Photon Upconversion: Mechanistic Insights for Intramolecular Pathways and the Importance of Molecular Geometry

Axel Olesund, Victor Gray, Jerker Mårtensson, and Bo Albinsson\*

Cite this: *J. Am. Chem. Soc.* 2021, 143, 15, 5745–5754  
 Publication Date: April 9, 2021  
<https://doi.org/10.1021/jacs.1c00331>  
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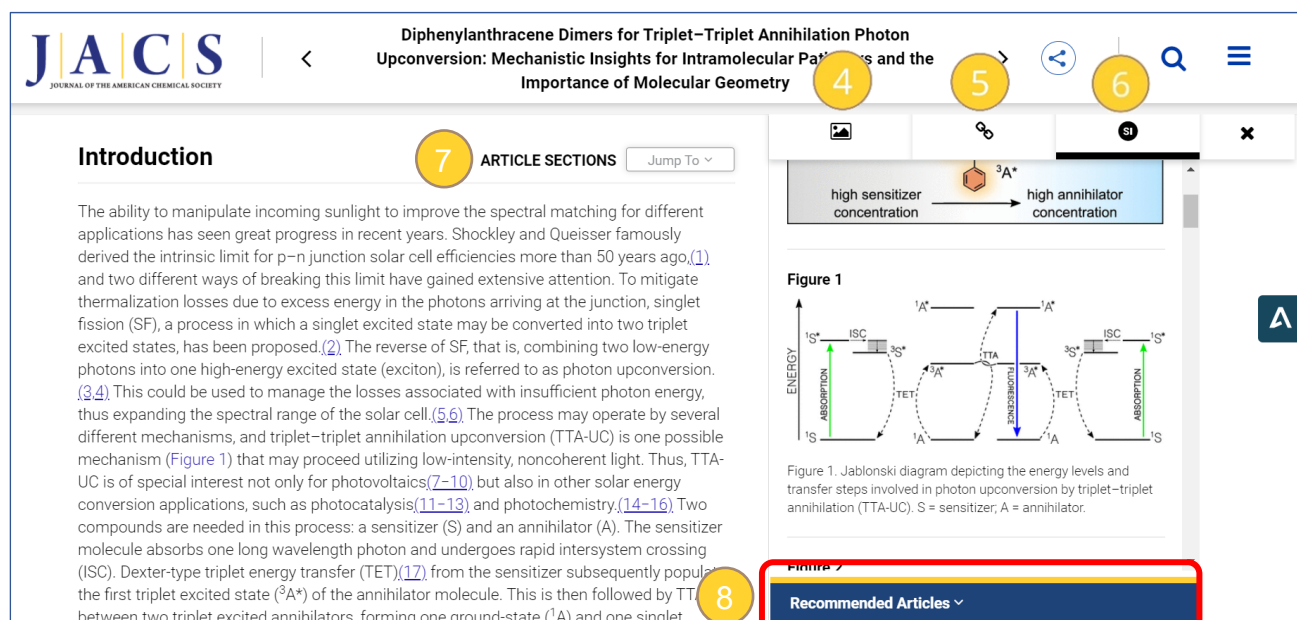
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SUBJECTS: Luminescence, Quantum mechanics, Kinetic modeling, Fluorescence, >



JACS  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY

### Diphenylanthracene Dimers for Triplet–Triplet Annihilation Photon Upconversion: Mechanistic Insights for Intramolecular Pathways and the Importance of Molecular Geometry

#### Introduction

The ability to manipulate incoming sunlight to improve the spectral matching for different applications has seen great progress in recent years. Shockley and Queisser famously derived the intrinsic limit for p–n junction solar cell efficiencies more than 50 years ago,<sup>(1)</sup> and two different ways of breaking this limit have gained extensive attention. To mitigate thermalization losses due to excess energy in the photons arriving at the junction, singlet fission (SF), a process in which a singlet excited state may be converted into two triplet excited states, has been proposed.<sup>(2)</sup> The reverse of SF, that is, combining two low-energy photons into one high-energy excited state (exciton), is referred to as photon upconversion.<sup>(3,4)</sup> This could be used to manage the losses associated with insufficient photon energy, thus expanding the spectral range of the solar cell.<sup>(5,6)</sup> The process may operate by several different mechanisms, and triplet–triplet annihilation upconversion (TTA-UC) is one possible mechanism (Figure 1) that may proceed utilizing low-intensity, noncoherent light. Thus, TTA-UC is of special interest not only for photovoltaics<sup>(7–10)</sup> but also in other solar energy conversion applications, such as photocatalysis<sup>(11–13)</sup> and photochemistry.<sup>(14–16)</sup> Two compounds are needed in this process: a sensitizer (S) and an annihilator (A). The sensitizer molecule absorbs one long wavelength photon and undergoes rapid intersystem crossing (ISC). Dexter-type triplet energy transfer (TET)<sup>(17)</sup> from the sensitizer subsequently populates the first triplet excited state (<sup>3</sup>A\*) of the annihilator molecule. This is then followed by TTA between two triplet excited annihilators, forming one ground-state (<sup>1</sup>A) and one singlet

Figure 1. Jablonski diagram depicting the energy levels and transfer steps involved in photon upconversion by triplet–triplet annihilation (TTA-UC). S = sensitizer; A = annihilator.

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8 建議閱讀文章

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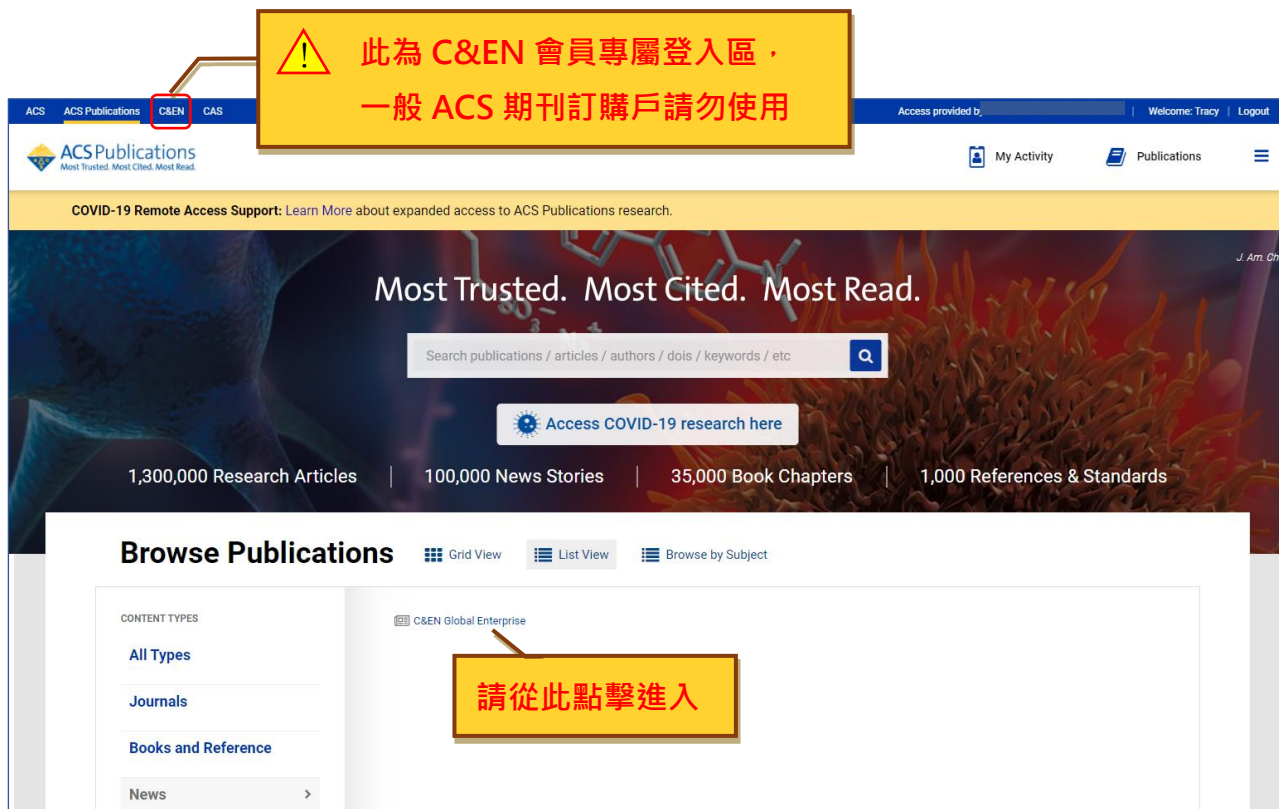
### 簡介

由美國化學學會所出版的新聞雜誌 Chemical & Engineering News Global Enterprise，提供從 2016 年起，最及時的化學及化工相關業界新聞與最新發展，包含最新科學研究與新興趨勢、教育、工業、商業、知識產權與政策資訊，消弭前瞻研發與產業發展落差。C&EN 每週出版雜誌其網站每年超過 700 萬次瀏覽。

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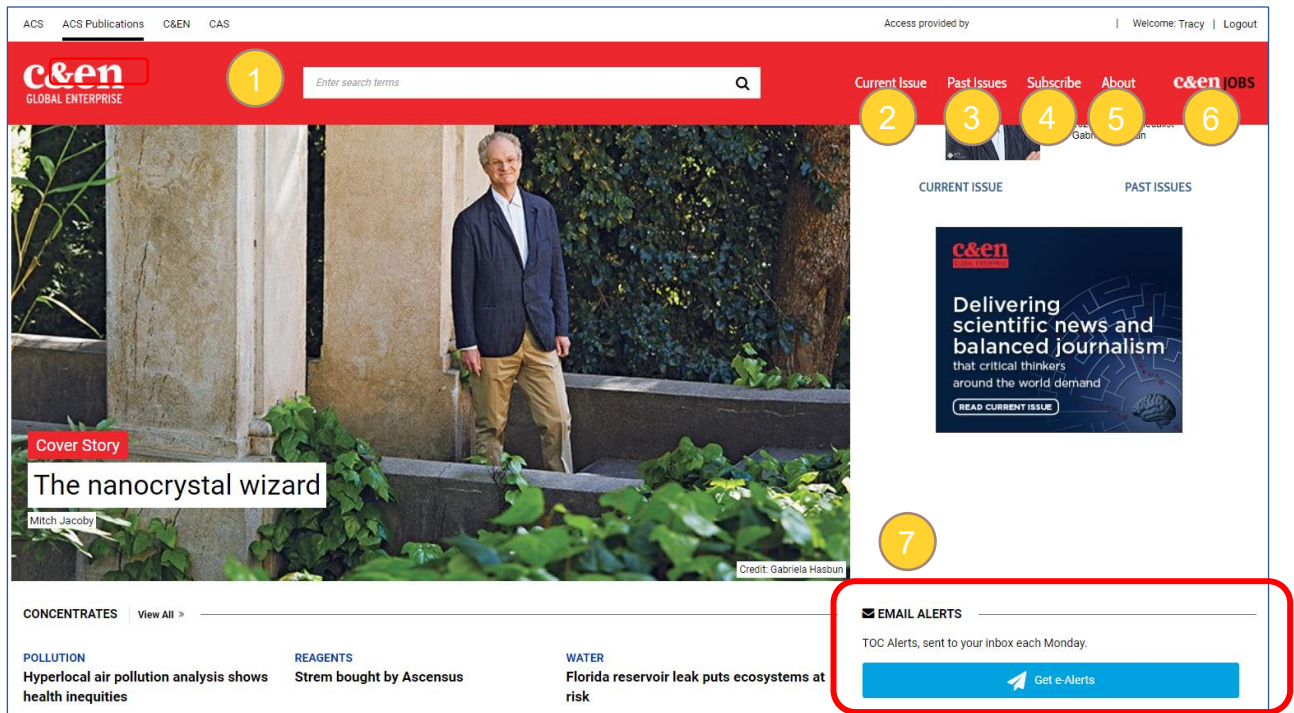
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Bioinspired adsorbent soaks up uranium from seawater, leaving interfering ions behind

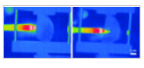
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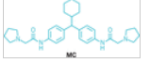
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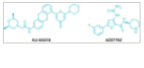
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