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The atom bomb was no great decision. It was merely another powerful weapon in the arsenal of righteousness. – Harry S. Truman

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Click on Masader  
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The screenshot shows the Masader library website interface. At the top left is the Masader logo with the Arabic text 'مصادر' above it. The main navigation bar includes 'Login | تسجيل الدخول' and 'العربية'. A search bar is present with the text 'Find books, articles, videos, and more...'. A modal window titled 'Patron Login' is centered on the screen, containing the text 'Log in to your desired institution.' and 'Administrator Login', with a 'User Login' button. A yellow callout box on the right says 'Click on login' and 'إضغط على تسجيل الدخول'. The main banner features the text 'Welcome to knowledge without boundaries!' and an image of a woman using a laptop. The footer contains five resource categories: ProQuest ebooks, EBSCO eBooks, Arabic eBooks, Arab World Research, and Open Access Databases.

login.openathens.net/auth/masader.om/o/811529367t=%2Fsaml%2F2%2Fsso%2Fmasader.om%3FSAMLRequest%3DFZLbtswEER%252FRReBdokRbikVYDtwYRQ2krErOeRgkdtYqMRVuzRb%252F31pKwZSFMiNh52d5bxZ3f3pu%252BgEjIq0FcuSIEVgNZrWVlvsqf4cL1E...

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بعد اختيار جامعة مسقط، يجب عليك تسجيل الدخول إلى مصادر باستخدام:  
اسم المستخدم: بريدك الإلكتروني الخاص بجامعة مسقط  
كلمة المرور: نفس كلمة المرور التي تستخدمها للوصول إلى بريدك الإلكتروني الخاص بجامعة مسقط

The image shows a screenshot of the Masader library website homepage. The website has a blue and white color scheme. At the top left is the Masader logo with the Arabic word 'مصادر' above it. To the right of the logo are links for 'Logout | الخروج', 'My Account', and 'العربية'. Below the logo is a search bar with the placeholder text 'Find books, articles, videos, and more...'. To the right of the search bar are buttons for 'e-Resources', 'Search', 'Advanced Search', and 'A - Z List'. Below the search bar is a navigation bar with 'Welcome' and 'E-Res'. The main content area features a large banner with the text 'Without boundaries!' and a woman in a hijab working on a laptop. Three yellow callout boxes are overlaid on the page, each pointing to a search option. The first callout points to the 'Search' button, the second to the 'Advanced Search' button, and the third to the 'A - Z List' button. At the bottom of the page, there is a row of five icons representing different database services: ProQuest ebooks, EBSCO eBooks, Arabic eBooks, Arab World Research, and Open Access Databases.

**You can conduct a simple search here by entering the keywords or the phrase**  
يمكنك إجراء بحث بسيط هنا عن طريق إدخال الكلمات المفتاحية أو عبارات

**Use the advanced search if you need to limit your search**  
استخدم البحث المتقدم إذا كنت بحاجة إلى تحديد نطاق بحثك

**Go to the A-Z List if you need to browse the publications, databases, and the subjects**  
من هنا يمكنك تصفح المنشورات، وقواعد البيانات، والموضوعات

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AND

AND

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Past 12 months

Past 5 years

Past 10 years

Custom range

Language

All

**Select the Boolean operator that suits your search:**

**AND** = both keywords appear in the results

**OR** = one of the keywords or both appear in the results

**NOT** = to eliminate the keyword after the "NOT" from your search

اختر معامل الربط البولياني المناسب لبحثك :

**AND** = ظهور كلا الكلمتين في النتائج

**OR** = ظهور إحدى الكلمتين أو كليهما في النتائج

**NOT** = لاستبعاد الكلمة التي تأتي بعدها من البحث

**More search limitations**  
المزيد من محددات البحث

research.ebsco.com/c/cttfof/search/results?limiters=&q=Chemical+Engineering

Welcome, Guest. Sign in to your institution for full access to your library's resources.

### Simple search

البحث البسيط

Chemical Engineering

All filters (0) Full Text Peer Reviewed All time Source type

Show: 10 Relevance



Even if you used the simple search, you could still limit your search results

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Chemical Engineering

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The objective of this review article is to analyze published data encompassing compressive strength, tensile strength, elastic modulus, and flexural strength, as well as the utilization of *scanning electron microscopy* (SEM), energy dispersive x-ray spectroscopy... Show more

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Recent Development of Nanomaterials for Chemical Engineering.

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Editorial  
**Recent Development of Nanomaterials for Chemical Engineering**  
Meiwen Cao 

State Key Laboratory of Heavy Oil Processing, Department of Biological and Energy Chemical Engineering,  
College of Chemistry and Chemical Engineering, China University of Petroleum (East China),  
Qingdao 266580, China; mwcao@upc.edu.cn

There has been an explosive growth in research on nanomaterials since the late 1980s and early 1990s. So far, massive amounts of nanomaterials have been developed and their preparation and characterization methods are relatively comprehensive and well-established [1,2]. The current most important issue is the engineering of nanomaterials in real-world applications to promote economic and social development. Based on the booming development of nanomaterials in the field of chemical engineering, we have launched two Special Issues, that is, Nanomaterials for Chemical Engineering (Volume I, 2022) and Nanomaterials for Chemical Engineering (Volume II, 2023). Detailed information on Volume I can be found via the following web link: [https://www.mdpi.com/journal/nanomaterials/special\\_issues/nano\\_chemical\\_engineering](https://www.mdpi.com/journal/nanomaterials/special_issues/nano_chemical_engineering). In the latest Special Issue (Volume II), we collected 15 original research articles and 1 comprehensive review paper written by excellent scientists from relevant fields covering the topics of nanomaterial synthesis and characterization, the engineering of nanomaterials into composites with novel properties, the development of functional nanomaterials for applications in catalysis and pollutant treatment, the evaluation of the durability and environmental friendliness of nanomaterials, etc. This Special Issue also follows closely the forefront of global scientific research and includes studies on the application of machine learning in the field of nanomaterials for chemical engineering. In what follows, I will give a brief introduction of the studies presented in this Special Issue.

The design and optimization of nanomaterial synthesis as well as performance control are eternal themes in the development of nanotechnology [3]. The rapid advancement of material preparation technology and the actual needs of specific nanomaterials with desired properties both drive the development of new synthesis methods to produce novel nanostructures. In this Special Issue, Mares-Briones et al. presented the chemical synthesis of AgPt nanoalloys by the polyol method, which used polyvinylpyrrolidone (PVP) as a surfactant in a heterogeneous nucleation approach. This study modulated well the composition, the size and morphology, the catalytic activity as well as the stability and long-term durability of the AgPt nanoparticles, providing attractive catalyst candidates for cost-effective ethanol oxidation. Abitayev et al. reported the controlled synthesis of

 check for updates  
Citation: Cao, M. Recent Development of Nanomaterials for Chemical Engineering. *Nanomaterials* 2024, 14, 456. <https://doi.org/10.3390/nano14050456>

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The screenshot shows a web browser window with the URL `research.ebsco.com/c/ctf/fof/viewer/pdf/7ukwaesbqj?modal=cite`. The page title is "Recent Development of Nanomaterials for Chemical Engineering." A yellow box highlights the citation pop-up window. The pop-up window is titled "Cite" and contains the following information:

- Article: Recent Development of Nanomaterials for Chemical Engineering.
- Author: Cao, Meiwen
- Year: 2024

Below the article information, there are two buttons: "Copy citation" and "Export citation". A message reads: "Please select your citation style below. Always consult your library resources for exact formatting and punctuation guidelines and pay special attention to specific requirements from your instructor. To learn more about citations and citation formats, please consult EBSCO Connect." A dropdown menu for "Style:" is set to "ABNT (Brazilian National Standards)". Below the dropdown, there is a "References" section with the following text: "Cao, M. (2024) 'Recent Development of Nanomaterials for Chemical Engineering', *Nanomaterials* (2079-4991), 14(5), p. 456. doi:10.3390/nano14050456." There is a "Copy to clipboard" button and a "Close" button at the bottom right of the pop-up.

A yellow callout box on the left contains the text: "Select the citation style from her" and "اختر نمط الاستشهاد او توثيق المصدر من هنا".

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### Chemical Engineering: : A Comprehensive Approach

K. S. Lakhi and Viswanathan. B.

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