

ฐานข้อมูล American Chemical Society Journal

ฐานข้อมูล American Chemical Society Journal เป็นฐานข้อมูลวารสารอิเล็กทรอนิกส์จากสำนักพิมพ์ The American Chemical Society ครอบคลุมสาขาวิชาเคมีและสาขาอื่นๆ ที่เกี่ยวข้อง มีวารสารให้บริการจำนวน 38 รายชื่อ ข้อมูลย้อนหลังตั้งแต่ปี 1996 – ปัจจุบัน ประกอบด้วยรายการทางบรรณานุกรม สารสังเขป และเอกสารฉบับเต็มรูปแบบ HTML และ PDF โดยสามารถเข้าใช้งานได้ที่ <http://pubs.acs.org>

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รูปแบบการสืบค้น มี 2 รูปแบบ คือ

1. แบบ Publications A-Z ได้เรียงรายชื่อวารสารตามลำดับตัวอักษร A-Z
 - List View
 - CAS Section
2. แบบ Search การสืบค้นด้วยคำค้น
 - Quick Search
 - Advanced Search

1. การสืบค้นแบบ Publications A-Z

1.1 แบบ List View

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2. เลือกชื่อวารสารที่ต้องการ

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- > Apparatus and Plant Equipment
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- > Ceramics
- > Electrochemical, Radiational, and Thermal Energy Technology
- > Essential Oils and Cosmetics
- > Extractive Metallurgy
- > Ferrous Metals and Alloys
- > Fossil Fuels, Derivatives, and Related Products
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2. เลือกชื่อวารสารที่ต้องการ

The screenshot shows the homepage of the American Chemical Society Journal. The main navigation bar includes links for 'Browse the Journal', 'Articles ASAP', 'Current Issue', 'Submission & Review', 'Subscribe', and 'About'. The 'Articles ASAP' section is highlighted with a red box and a callout '1'. The 'Browse By Issue' section is highlighted with a red box and a callout '2'. The 'Articles ASAP' section also includes a 'Most Read' link, which is highlighted with a red box and a callout '3'.

1. คลิกเลือก Article ASAP เพื่อดูวารสารฉบับล่วงหน้า
คลิกเลือก Current Issue เพื่อดูวารสารฉบับปัจจุบัน
คลิกเลือก Most Read เพื่อดูบทความที่ได้รับความนิยมในการเข้าอ่านเนื้อหา
2. Browse By Issue เพื่อค้นหาวารสารฉบับย้อนหลัง
3. คลิกเลือกแสดงรูปแบบเนื้อหาของบทความที่ต้องการ เช่น สารสังเคราะห์หรือเอกสารฉบับเต็ม

2. การสืบค้นแบบ Search

2.1 แบบ Quick Search การสืบค้นแบบง่าย

The screenshot shows the homepage of the American Chemical Society Journal. The main navigation bar includes links for 'Browse the Journal', 'Articles ASAP', 'Current Issue', 'Submission & Review', 'Subscribe', and 'About'. The 'Quick Search' section is highlighted with a red box and a callout '1'. The 'Search' button is highlighted with a red box and a callout '2'. The 'Search' button is also highlighted with a red box and a callout '3'. The 'Search' button is also highlighted with a red box and a callout '4'. The 'Search' button is also highlighted with a red box and a callout '5'.

1. พิมพ์คำหรือวลี
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3. เลือกค้นเฉพาะภายในวารสารนี้หรือวารสารทั้งหมด
4. คลิก Search
5. หรือ คลิกที่ Advanced Search เพื่อเลือกการสืบค้นขั้นสูง

2.2 แบบ Advanced Search การสืบค้นขั้นสูง เหมาะสำหรับผู้ที่มีข้อมูลในการสืบค้นมาก

Your Search

Search Criteria

Anywhere in Content/Website:

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Content Type 2

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Search within section:

- > Search All sections

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To: Month Month Year Year 3

SEARCH 4

Advanced Search

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3. ระบุช่วงเวลาตีพิมพ์
4. คลิก **Search**

หน้าแสดงผลลัพธ์

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You searched for: nanophotonic

Filters Applied: None

Content Type

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- C&EN Archives Article (1)
- Journal Article (483)

Section

- Author Choice (4)
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- Chemistry of Synthetic High Polymers (2)
- Crystallography and Liquid Crystals (3)
- Electric Phenomena (60)
- Electrochemical, Radiational, and Thermal Energy Technology (15)
- Electrochemistry (2)
- General Biochemistry (2)
- Inorganic Analytical Chemistry (5)
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Ranjith Rajasekharan, Timothy D. Wilkinson, Philip J. W. Hands, and Qing Dai

Nano Lett., 2011, 11 (7), pp 2720-2723

Publication Date (Web): June 9, 2011 (Letter)

DOI: 10.1021/nl201056s

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3. เลือกจำกัดผลลัพธ์ให้แคบลง

Abstract สารสังเขป

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Nanophotonic Three-Dimensional Microscope

Ranjith Rajasekharan, Timothy D. Wilkinson*, Philip J. W. Hands, and Qing Dai
Department of Engineering and Electronics, University of Cambridge, 9 J.J. Thomson Avenue, Cambridge CB3 0FA, U.K.
Nano Lett., 2011, 11 (7), pp 2770-2773
DOI: 10.1021/nl201056s
Publication Date (Web): June 9, 2011
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สามารถเลือกแสดงเอกสารฉบับเต็ม ซึ่งมีให้เลือก 3 รูปแบบ ได้แก่

1. เอกสารฉบับเต็มรูปแบบ HTML

Full Text HTML

Letter

pH-Stimulated Concurrent Mechanical Activation of Two DNA "Tweezers". A "SET-RESET" Logic Gate System

Johann Elbaz, Zhen-Gang Wang, Ron Orbach and Hamar Willner*
The Institute of Chemistry, The Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem, Jerusalem 91904, Israel
Nano Lett., 2009, 9 (12), pp 4510-4514
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Publication Date (Web): October 16, 2009
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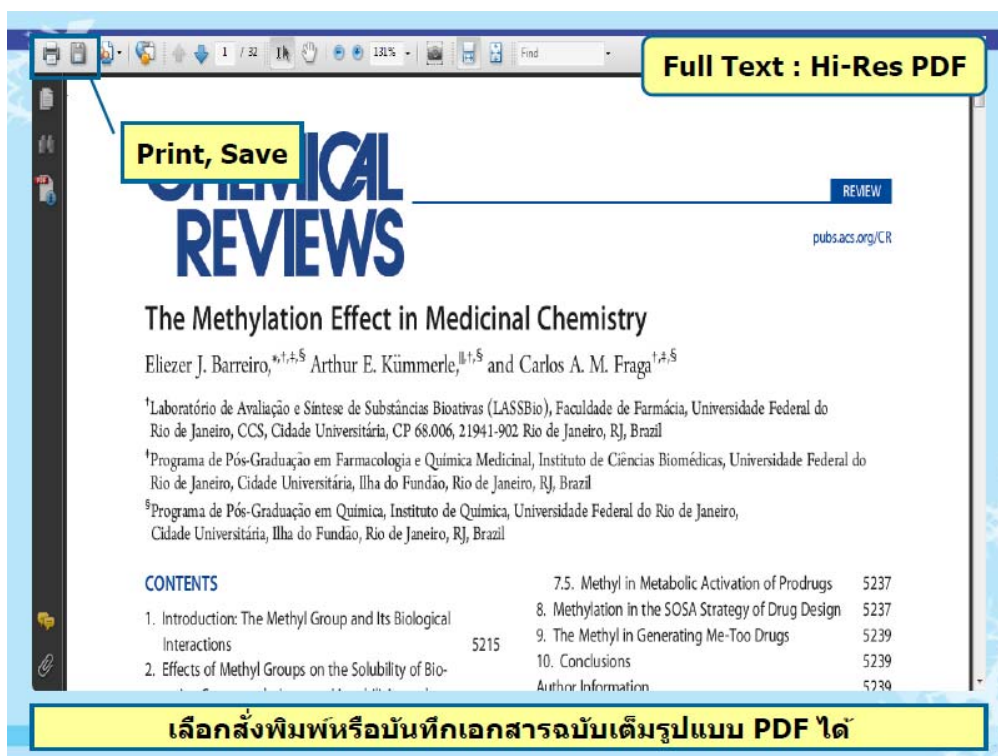
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Figure 1 of 6

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State S
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2. Hi Res PDF เอกสารฉบับเต็มรูปแบบ PDF ที่มีความละเอียดสูง



3. PDF w/Links เอกสารฉบับเต็มรูปแบบ PDF ที่มีเนื้อหาของเอกสาร

METHODS

Fabrication Process. Carbon paste (Acheson-Henkel, Taiwan) was first coated on commercial printing paper by a screen printer (RUSAC, Houn Jen Co., Ltd.). The process was repeated 10 times to reduce the surface roughness of the paper, and then the samples were cured for 10 min at 100 °C in a vacuum oven. The screen mold is made of polyester with the following conditions: mesh count, 150 mesh/inch; mesh opening, 100 μm; thread diameter, 50 μm; open surface, 35%; fabric thickness, 80 μm. The second step was to deposit the TiO₂ layer on the paper with carbon bottom electrodes. The preparation of the TiO₂ ink is as follows: 0.5 g of TiO₂ nanoparticles ~25 nm in diameter (Sigma Inc.) was mixed into a solvent of 50 μL of acetyl acetone (Afa Aesar), 50 μL of Triton-X-100 (Acros), 85 mL of DI water, 1 mL of ethanol, and 0.5 mL of ethylene glycol. The inkjet printing was done by a MicroFab JetLab4 system (MicroFab Technologies Inc.) with two piezoelectric nozzles, 50 μm in diameter. TiO₂ ink was deposited at a temperature of 50 °C. After the TiO₂ layers dried, the Ag layer was printed on the TiO₂ layer as the top electrodes. The Ag ink was prepared by adding 10 wt % Ag nanoparticles into a humectant solution (30% ethylene glycol and 70% water). The Ag nanoparticles have a mean diameter of 200 nm (see Supporting Information for details). To disperse the nanoparticles better, the as-made ink was put in a sonication bath for 2 h. The size and the velocity of the ejected droplets were measured through an optical image analysis system. For both TiO₂ and Ag inks, the diameters of the ejected droplets were ~50 μm. The drop ejection frequency was controlled at 1000 Hz with ejection velocities of 1.86 m/s for

stages with confined gaps. The electrical pulse was triggered by a function generator (33250A, Agilent Technology), and a resistance of 500 Ω was used to confine the current flowing through the device. When conducting the pulse switching, the resistance of the memory was measured by a power-meter (B2902A, Agilent Technology). All of the operation voltages were applied on the Ag top electrode, and the carbon bottom electrode was grounded. During the measurement in the voltage sweeping mode, the positive bias is defined as the current flow from the top to the bottom electrodes, and the negative bias was defined as the direction from the bottom to the top electrodes.

Conflict of Interest: The authors declare no competing financial interest.

Supporting Information Available: Preparation of the TiO₂ ink, sintering parameters of the Ag ink, electrical characteristics of the inkjet-printed Ag, switching parameters as a function of TiO₂ thickness, bending test of the flexible all-printed paper memory, fabrication speed of paper and Si wafer, and cost of the paper memory. This material is available free of charge via the Internet at <http://pubs.acs.org>.

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- Martins, R.; Barquinha, P.; Pereira, L.; Correia, N.; Gonçalves, stages with confined gaps. The electrical pulse was triggered by a function generator (33250A, Agilent Technology), and a resistance of 500 Ω was used to confine the current flowing through the device. When conducting the pulse switching, the resistance of the memory was measured by a power-meter (B2902A, Agilent Technology). All of the operation voltages were applied on the Ag top electrode, and the carbon bottom electrode was grounded. During the measurement in the voltage sweeping mode, the positive bias is defined as the current flow from the top to the bottom electrodes, and the negative bias was defined as the direction from the bottom to the top electrodes.
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