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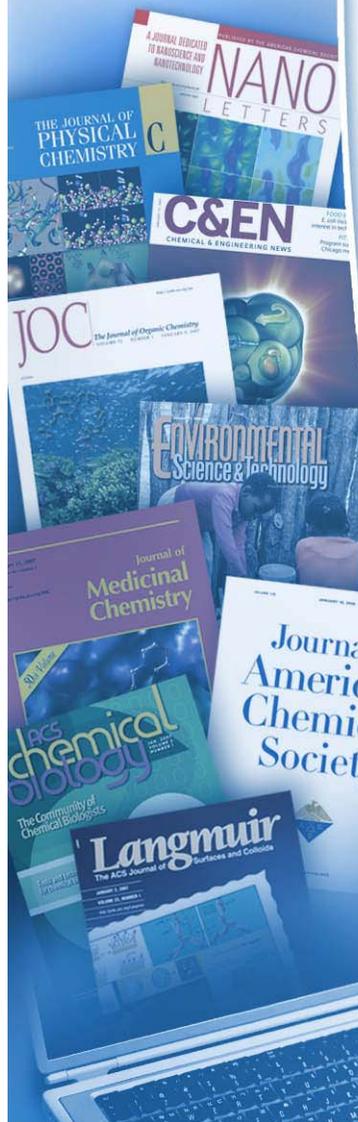
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# ACS Publications

Visión general del  
programa de  
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# American Chemical Society

- Fundada en 1876, American Chemical Society (ACS) es la mayor sociedad científica del mundo. Tiene 160.000 miembros.
- ACS impulsa el conocimiento académico, ofrece servicios profesionales y actúa de forma activa en los campos de la ciencia, educación y políticas públicas. Presente en los sectores académico y corporativo.





## Publicaciones de ACS

- ACS publicó el *Journal of the American Chemical Society (JACS)* por primera vez en 1879. Actualmente, ACS publica 34 periódicos
- El acceso al contenido online cubre desde 1996 hasta el presente con más de 280.000 artículos.
- En 2008, ACS publicó más de 33.000 artículos originales, que fueron accedados más de 63 millones de veces en la Web, en más de 198 países.





## Los periódicos más citados en ciencias químicas y áreas relacionadas

- Como fué divulgado por ISI® Journal Citation Reports® (W.o.S.) de 2007, los periódicos de ACS fueron citados más de 1,36 millones de veces en 2007.
- Los periódicos de ACS quedaron en primer lugar en número de citas o en factor de impacto ISI® en las 7 categorías de Químicas de Base, y primer lugar en número de citas en 7 otras categorías.





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JANUARY 2007  
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# Títulos actuales de ACS

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<b>ACS Applied Materials &amp; Interfaces</b>	<b>Journal of Chemical Information and Modeling</b>
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De los 149 ganadores del Premio Nobel de Química desde 1901, 113 publicaron artículos en los periódicos de ACS.





## Artículos “Legacy” de ACS

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- ACS Publications firmó un importante contrato con Portico, un servicio de almacenamiento electrónico creado en 2005, con apoyo de The Andrew W. Mellon Foundation, Ithaka, The Library of Congress y JSTOR.
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- El contrato con Portico complementa la participación de ACS en el proyecto CLOCKSS, iniciada en el segundo trimestre de 2006.





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Search within:

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### Search Tips

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Within all of the search fields, the Boolean Operator allows you to perform searches that specify logical relationships between terms. The relationship between the terms you enter is established by the operator you use. **Except for the Author field.** To do a search for multiple authors you must include an AND between each author's name.

#### Phrases

To bypass the default use of the AND relationship between the terms you enter, wrap your terms in quotes. This will create a search for the specific phrase you have enclosed in quotes.

#### Wildcards

Wildcards allow you to construct a query with approximate search terms. Use a question mark (?) in a search term to represent any one character and use an asterisk (\*) to represent zero or more characters. There are two limitations of wildcards: you cannot use a wildcard at the beginning of a search term or in a phrase enclosed in quotation marks.

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You can expand your search by enabling stemming. Simply check the checkbox that appears just before the Journal Titles heading in the Search Criteria section of the Search Criteria page ([Link to the Search Criteria](#))

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NOT (also -) allow you to search for an AND relationship between terms. For multiple authors you should wrap your terms in quotes.

A question mark (?) in a search term allows for zero or more characters. For example, the use of a question mark in a search term or in a search term that appears just before the "OR" operator in the Search Criteria section.

Do not use the asterisk (\*) as a wildcard character in your search. For example, "hydro\*gen" will also search for "hydrogen" and "hydrogens".

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**Biological Bottom-Up Assembly of Antibody Nanotubes on Patterned Antigen Arrays**

Nurxat Nuraje, Ipsita A. Banerjee, Robert I. MacCuspie, Lin Hiroshi Matsui

*J. Am. Chem. Soc.*, 2004, 126 (26), pp 8088-8089  
Publication Date (Web): June 17, 2004 (Communication)  
DOI: 10.1021/ja048617u

Biological Bottom-Up Assembly of Antibody Nanotubes on Patterned Antigen Arrays ... Here we introduced a new type of building block, antibody nanotubes ... Biological recognition between the antibody nanotubes and the antigen arrays permitted recognition-driven assembly of ordered nanotube arrays. ...

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**Biological Patterned**

Nurxat Nur...

Hiroshi Mats...

J. Am. Chem...

Publication

DOI: 10.1021...

Biological Bottom-up Assembly of Antibody Nanotubes on Patterned Antigen Arrays ... Here we introduced a new type of building block, antibody nanotubes ... Biological recognition between the antibody nanotubes and the antigen arrays permitted recognition-driven assembly of ordered nanotube arrays. ...

The diagram illustrates the assembly of antibody nanotubes. It shows a substrate with a patterned surface. A virus-like particle (VLP) is shown binding to the surface. The VLP is then assembled into a nanotube structure. The nanotube is composed of antibody molecules (Anti-Straw IgG) that are bound to the surface. The process is labeled as 'Biomolecular Recognition of Antibody Nanotube'.

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- In Brief (85)
- In Brief (12)

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- Strano, Michael S. (35)
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- Xia, Younan (34)
- Park, Jeunghye (34)
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- Kanoh, Hirofumi (33)

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### Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes

Ernesto Joselevich Charles M. Lieber

*Nano Lett.*, 2002, 2 (10), pp 1137-1141

Publication Date (Web): August 30, 2002 (Letter)

DOI: 10.1021/nl025642u

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Vectorial Growth of Metallic and Semiconducting Single-Wall Carbon Nanotubes ... Statistical analysis of the nanotube angular distribution indicates that field-directed growth can discriminate between metallic and semiconducting nanotubes during their formation. ...

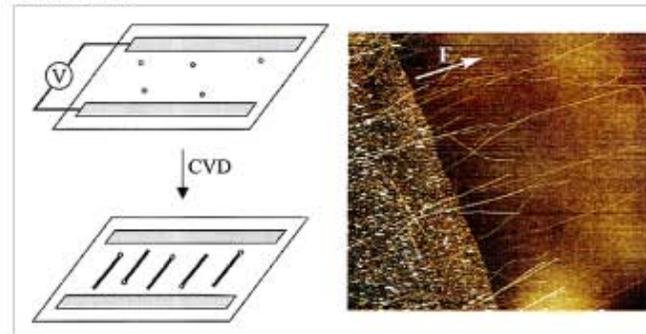


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Wang, J. Weldon, H. Garcia, and A. Zettl

*Nano Lett.*, 2007, 7 (11), pp 3508-3511

Publication Date (Web): October 31, 2007 (Letter)

DOI: 10.1021/nl0721113

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... most strikingly the solid-state transistor transformed the radio from a power-hungry, and stationary unit to a device that could be carried in a shirt pocket.<sup>1</sup> Today, the same silicon-based technology that gave us the



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Prato, Maurizio (34)  
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## Nanotube Radio

K. Jensen, J. Weldon, H. Garcia, and A. Zettl

*Nano Lett.*, 2007, 7 (11), pp 3508-3511

Publication Date (Web): October 31, 2007 (Letter)

DOI: 10.1021/nl0721113

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Perhaps most strikingly the solid-state transistor transformed the radio from a bulky, power-hungry, and stationary unit to a device that could be carried in a shirt-pocket.<sup>1</sup> Today, the same silicon-based technology that gave us the transistor is fast approaching hard physical limits, and it is expected that future progress will require new nanoscale materials,<sup>2</sup> for example carbon nanotubes ...<sup>3-6</sup> Combining many of the unique electrical and mechanical properties of carbon

Refina por el período que fué publicado y guarda su búsqueda

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...a single carbon nanotube. ... The  
...e remarkable field-emission  
...in large part to their  
...electric field. ...

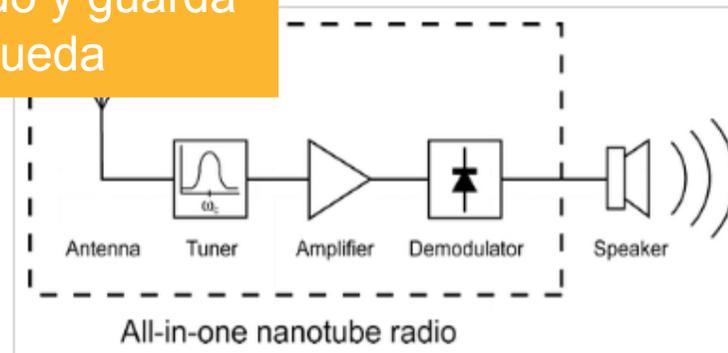


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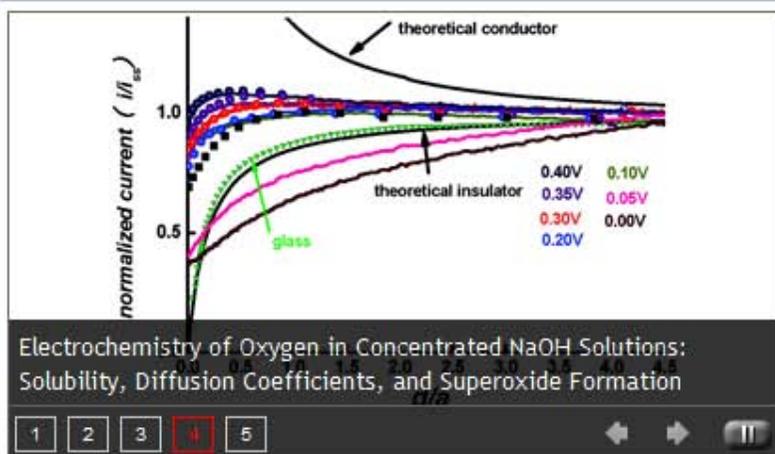
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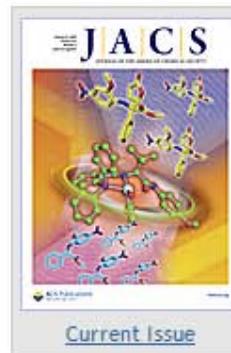
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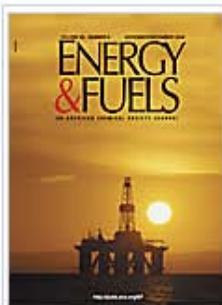
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Abstract

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### Passive Air Sampling of Polychlorinated Biphenyls and Organochlorine Pesticides at the Korean Arctic and Antarctic Research Stations: Implications for Long-Range Transport and Local Pollution

Sung-Deuk Choi<sup>†‡</sup>, Song-Yee Baek<sup>‡</sup>, Yoon-Seok Chang<sup>\*†</sup>, Frank Wania<sup>‡</sup>, Michael G. Ikonomou<sup>§</sup>, Young-Jun Yoon<sup>||</sup>, Byong-Kwon Park<sup>||</sup> and Sungmin Hong<sup>||</sup>

School of Environmental Science and Engineering, Pohang University of Science and Technology (POSTECH), San 31, Hyoja-dong, Nam-gu, Pohang 790-784, Republic of Korea, Department of Physical and Environmental Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, Ontario, Canada M1C 1A4, Contaminant Sciences, Institute of Ocean Sciences, Fisheries and Oceans Canada (DFO), 9860 West Saanich Road, Sidney, British Columbia, Canada V8L 4B2, and Korea Polar Research Institute, Songdo Techno Park, 7-50, Songdo-Dong, Yeonsu-Gu, Incheon P.O. Box 32, 406-840 Republic of Korea

*Environ. Sci. Technol.*, 2008, 42 (19), pp 7125-7131

DOI: 10.1021/es801004p

Publication Date (Web): September 4, 2008

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<sup>†</sup> Pohang University of Science and Technology.

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<sup>\*</sup> Corresponding author phone: (82)-54-279-2281; fax: (82)-54-279-8299; e-mail: [yschang@postech.ac.kr](mailto:yschang@postech.ac.kr).

<sup>§</sup> Institute of Ocean Sciences, Fisheries and Oceans Canada.

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## Abstract

To assess levels and patterns of polychlorinated biphenyls (PCBs) and organochlorine pesticides (OCPs) in polar regions, XAD-resin based passive air samplers were deployed for one year at the Korean polar research stations at Ny-Ålesund, Norway (2005–2006) and King George Island, Antarctica (2004–2005). Backward trajectories suggest that these stations are affected by long-range transport from source regions in Northern Europe and Russia and the southern tip of South America, respectively. Relatively high levels of PCB-11, averaging  $60 \text{ pg}\cdot\text{m}^{-3}$ , were observed in Antarctica, suggesting an unusual source of PCB-11 to the Southern Hemisphere. Reflecting the hemispheric distribution of global PCB emissions, the average level of  $\Sigma_{205}\text{PCB}$  (excluding three mono-CBs and PCB-11) was five times higher in the Arctic ( $95 \text{ pg}\cdot\text{m}^{-3}$ ) than in the Antarctic ( $19 \text{ pg}\cdot\text{m}^{-3}$ ). Levels of  $\Sigma_9\text{PCB}$  at Ny-Ålesund were similar to those reported for other Arctic sites, while levels at King George Island were lower than at other sites on the Antarctic Peninsula but 1 order of magnitude higher than background levels measured at a more remote Antarctic site. Light homologues were

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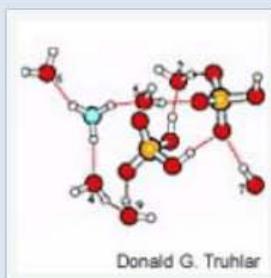
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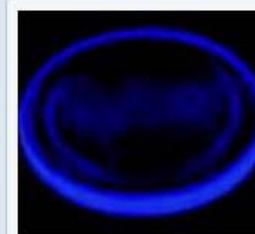


Donald G. Truhlar

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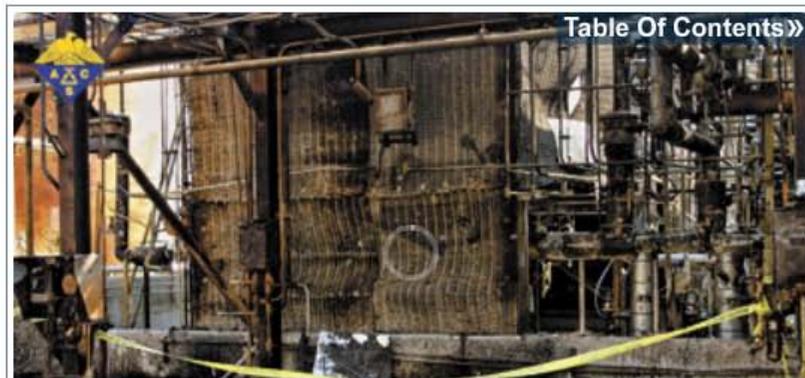
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## LATEST NEWS

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HEALTH

### Containing Swine Flu

FDA authorizes unapproved diagnostic test, new uses for drug

Britt Erickson and Lisa Jarvis

U.S. OFFICIALS are scrambling to deal with an outbreak of swine flu that is believed to have originated in Mexico and is rapidly spreading across the globe. Tests have confirmed that hundreds of people in at least 11 other countries, including the U.S., have been infected with the newly discovered [swine influenza A \(H1N1\) virus](#).

The [Food & Drug Administration](#) has responded to the threat by authorizing the emergency use of certain antiviral drugs to treat the virus and an unapproved laboratory test to help detect it.

FDA's action allows physicians to give the oral drug Tamiflu to children less than a year old and authorizes the broader distribution of Tamiflu and the inhalant Relenza. News of FDA's emergency authorizations led to a jump in the shares of [Roche](#), [Gilead Sciences](#), and [GlaxoSmithKline](#), which make the approved antiviral drugs.

The action also authorized the [Centers for Disease Control & Prevention](#) (CDC) to distribute its real-time reverse transcriptase polymerase chain reaction Swine Flu Panel diagnostic test to qualified public health labs, even though the test has not been approved by FDA.

The diagnostic works by amplifying viral genetic material from a nasal swab.

"A positive result indicates that the patient is presumptively infected with



Dreamstime

People in Aguascalientes, Mexico, take precautions to avoid spreading and contracting influenza.

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