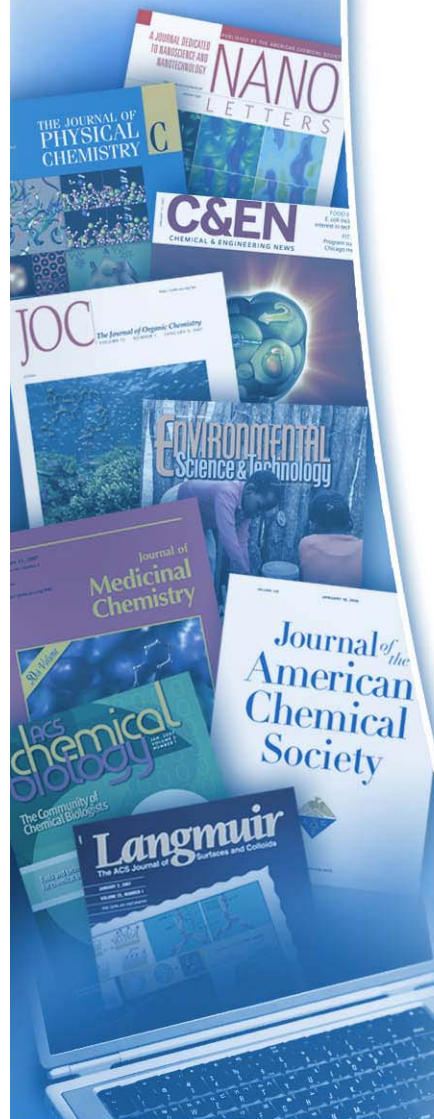




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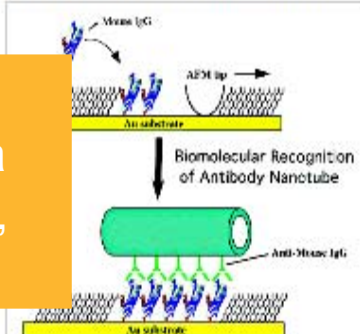
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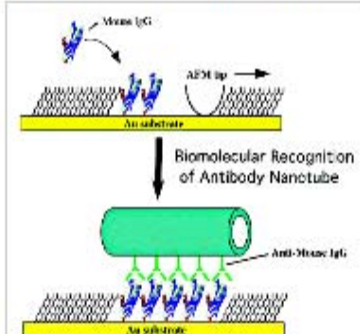
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Author

Iijima, Sumio (90)
Bando, Yoshio (64)
Yudasaka, Masako (57)
Golberg, Dmitri (54)
Dai, Hongjie (50)
Hauge, Robert H. (45)
Liu, Zhongfan (42)
Kaneko, Katsumi (42)
Liu, Jie (41)
Sun, Ya-Ping (40)
Tour, James M. (39)
Smalley, Richard E. (38)
Qian, Yitai (38)
Haddon, Robert C. (37)
Strano, Michael S. (35)
Lieber, Charles M. (34)
Xia, Younan (34)
Park, Jeunghye (34)
Prato, Maurizio (34)
Kanoh, Hirofumi (33)

Date Range

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Ernesto Joselevich Charles M. Lieber

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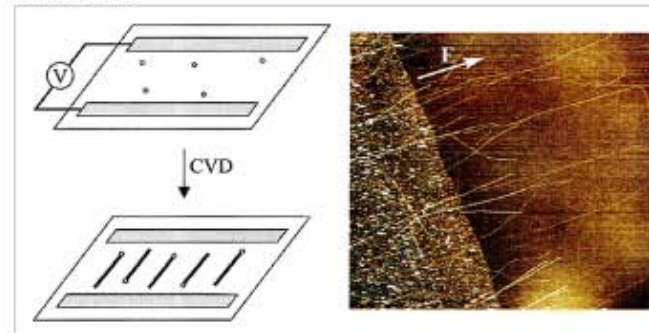


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Página de resultados

Qian, Yitai (38)

Haddon, Robert C. (37)

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Lieber, Charles M. (34)

Xia, Younan (34)

Park, Jeunghye (34)

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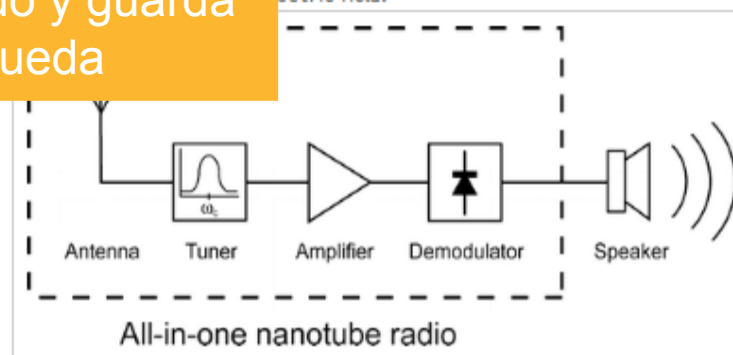


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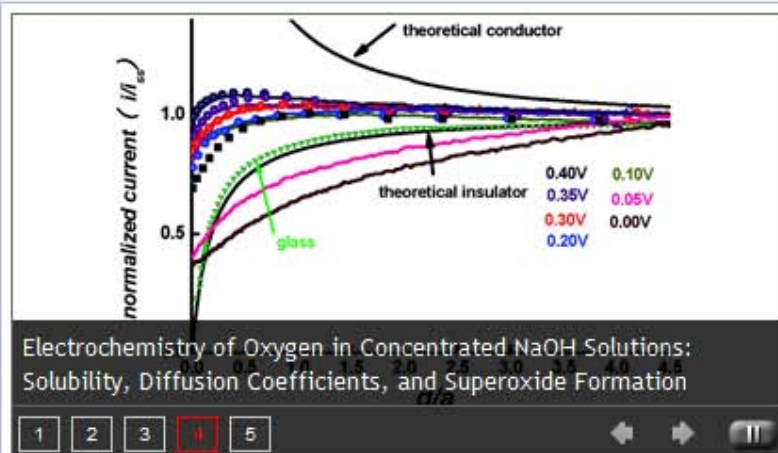
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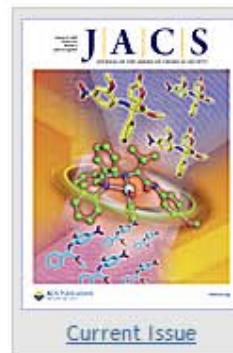
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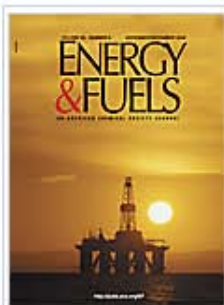
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- » MATERIALS
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Sung-Deuk Choi^{†‡}, Song-Yee Baek[†], Yoon-Seok Chang^{*†}, Frank Wania[‡], Michael G. Ikonomou[§], Young-Jun Yoon^{||}, Byong-Kwon Park^{||} and Sungmin Hong^{||}

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

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DOI: 10.1021/es801004p

Publication Date (Web): September 4, 2008

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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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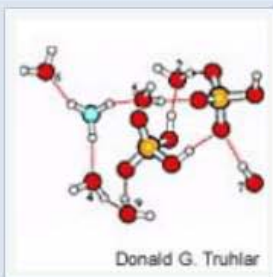
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Binding Energies in Complex Systems

Journal of Chemical Theory and Computation
May 2009



Donald G. Truhlar

The electrostatically embedded many-body approximation method works well to calculate accurate binding energies of certain mixed clusters.

Into the Blue

Macromolecules
May 2009



Leonard V. Interrante

A photocurable, blue photoluminescent cycloliner polycarbosilane has been prepared by using acyclic diene metathesis (ADMET) polymerization.

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[Table Of Contents»](#)

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01 02 03 04 05 06 07

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Quantum Dots That Don't Blink
Core structure suppresses blinking and leads to unusual spectral behavior.

MAY 12, 2009
Jury Acquits W.R. Grace In Asbestos Case
After a three-month trial, firm and executives are cleared on all 10 counts.
NASA Launches Hubble Rescue Mission
Space shuttle *Atlantis* lifts off on a mission to service telescope for the last time; panel to consider the future of human space flight.

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Producers blame weak polymer demand for Texas plant closings.
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TABLE OF CONTENTS

- NEWS OF THE WEEK
- BUSINESS
- GOVERNMENT & POLICY
- SCIENCE & TECHNOLOGY
- AWARDS
- THE DEPARTMENTS



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[January](#) | [February](#) | [March](#) | [April](#) | [May](#)

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January 5, 2009
Vol. 87, issue 1



January 12, 2009
Vol. 87, issue 2



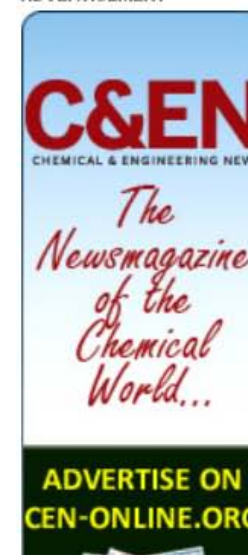
January 19, 2009
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Vol. 87, issue 4



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MAY 4, 2009 | VOLUME 87, NUMBER 18 | P. 8 | FIRST APPEARED [ONLINE APRIL 28](#)

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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» **Swine Flu Emerges**

C&EN, Latest News, April 28, 2009

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