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Nanoelectronics - Breaking Stories from 3rd-Party News Sources

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Seeking proposals for highly heat resistant, high dielectric constant materials for capacitors used in power devices.... [more](#)

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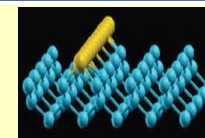
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[Portfolio of U.S. & European integrated circuit related patents for sale](#) More than ten patents covering integrated circuit related materials, inductors, fabrication processes, etc.... Relevance: 100

+ News Clips—*Breaking Stories from 3rd-Party Newswires*

[Smart networking](#) [[nanowires](#)] [[atoms](#)] [[electrons](#)] [[magnetic](#)] [[switches](#)]

Spectroscopists want to know if gold nanowires (yellow) on silicon surfaces will speed up data transfer. ... "We can cut by half the process of developing a material experimentally," he says.... Relevance: 68



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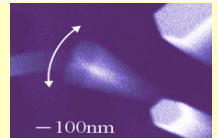
[Virtual 3D nanorobots could lead to real cancer-fighting technology](#)

[nanoelectronics] [molecular] [electronics] The development is highly collaborative, with advances depending on future improvements in nanoelectronics, new materials, and genomics research. ... The software NCD (nanorobot control design) is a system implemented to serve as a test bed for nanorobot 3D prototyping, Cavalcanti, CEO of the Center for Automation in Nanobiotech and researcher at Monash University in Melbourne, told... [Relevance: 75](#)



[A Better Resonator](#) [nanowires] [nanotubes] [devices] [nanoscale] [carbon]

Researchers have made defect-free gallium-nitride nanowires that could replace bulky quartz crystals in cell-phone receivers.... [Relevance: 68](#)



[Unidym's CTO, Dr. Paul Drzaic, Speaking at Fraunhofer IZM Munich Forum 2007 'be-flexible' Thin Semiconductor Devices](#) [Devices] [nanotube] [electronic] [carbon] [transistors]

He will also describe how novel materials, like Unidym's carbon nanotube devices, enable a number of new flexible product applications in this increasingly important area of technology. ... The 'be-flexible' Forum was initiated by Fraunhofer IZM Munich to face present and future challenges concerning research, technology, integration, manufacturing and trends in the fast evolving world of flexible electronics.... [Relevance: 72](#)

[EETimes.com - Gate leakage, down and out?](#) [Nanoelectronics] [transistors] [atomic] We are using standard CVD techniques and the same precursors as everybody else," said Rajendra Singh, director of the Center for Silicon Nanoelectronics at Clemson University. ... "This is a process that is robust and manufacturing tools could be developed for it without any fundamental barriers. ... [Relevance: 39](#)

[New silicon chip technology is created](#) [Nanotubes] [Nanoelectronics] [electronic] [devices]

Nanotubes are grown on computer chips (November 5, 2007) -- U.S. scientists have created a method of growing forests of nanotubes on the surfaces of computer chips to enhance the flow of heat at critical ... Computer program automates chip debugging (November 6, 2007) -- U.S. engineering researchers have developed a technology to automate post-silicon computer chip debugging -- fixing design bugs and wrong wire ... [Relevance: 78](#)

[Gate leakage, down and out?](#) [Nanoelectronics] [transistors] [atomic] We are using standard CVD techniques and the same precursors as everybody else," said Rajendra Singh, director of the Center for Silicon Nanoelectronics at Clemson University. ... "This is a process that is robust and manufacturing tools could be developed for it without any fundamental barriers. ... Relevance: 30

[Xidex Wins New DOE Contract to Make Carbon Nanotube Sources for Electron Microscopes](#) [Nanotube] [Electron] [Carbon] [atomic] [devices] Xidex Wins New DOE Contract to Make Carbon Nanotube Sources for Electron Microscopes ... The project is aimed at significant improvement in the imaging resolution, signal-to-noise ratio, and processing speed of SEMs and TEMs used in materials science, biotechnology, forensics, medical research, the semiconductor industry, and the emerging nanotechnology industry.... Relevance: 68

[Arrowhead Subsidiary, Unidym, Closes \\$10.4 Million Financing Led by Financial and Strategic Institutions](#) [nanotube] [electronics] [Electron] [carbon] [transistors] "We look forward to working with both partners in commercializing carbon nanotube based electrodes and transistors for the touch panel, display and solar industries." ... that explores emerging areas of science, develops and commercializes technology, and manages laboratories for customers. ... Relevance: 74

[Nanoelectrodes could provide bird flu test](#) [nanotube] [carbon] [switched] Now scientists have demonstrated a new process that could make the task far easier it's all done by wiring a DNA strand up to a pair of nanotube electrodes and feeding electricity through it. ... Researchers from Florida International University, US; Pohang University of Science and Technology, Korea; and the National Institute of Genetics, Japan, took a single-walled carbon nanotube and deposited titanium and gold at either end to create a pair of electrical contacts.... Relevance: 46

Using Nanotechnology, UCLA Researchers Discover that Cancer Cells "Feel" Much Softer than Normal [nanoelectronics] [Atomic]

CNSI members include some of the world's preeminent scientists, and the work conducted at the institute represents world-class expertise in five targeted areas of nanosystems-related research: renewable energy, environmental nanotechnology and nanotoxicology, nanobiotechnology and biomaterials, nanomechanical and nanofluidic systems, and nanoelectronics, photonics and architectonics. ... Using Nanotechnology, UCLA Researchers Discover that Cancer Cells "Feel" Much Softer than Normal Cells...

Relevance: 69

Cooler, faster, cheaper: Researchers advance process to manufacture silicon chips

[devices] [Nanoelectronics] [Electronics] Houser Banks Professor and director for the Center for Silicon Nanoelectronics at Clemson University. ... Cooler, faster, cheaper: Researchers advance process to manufacture silicon chips... Relevance: 76

Nanotechnology and viruses working together? [nanowires] [electronics]

[devices] The key concept behind our study of TMV templated polymeric nanowire is to take advantage of the self-assembly pathway of the TMV itself.? ... You've certainly read that nanotechnology can be used for many application. ... Relevance: 69



Cooler, faster, cheaper: Clemson researchers advance process to manufacture silicon chips [devices] [Nanoelectronics] [Electronics]

Houser Banks Professor and director for the Center for Silicon Nanoelectronics at Clemson University. ... Cooler, faster, cheaper: Clemson researchers advance process to manufacture silicon chips... Relevance: 81



Eleventh Annual NSTI Nanotech 2008 Final Call for Papers [nanotubes] [Carbon]

[Fabrication] [Electronics&] -- Nano and Materials& Technologies : (Carbon nanotubes, Nanomanufacturing, Fabrication, Composites) ... The 2008 event is expanding to highlight how top nanoscience and nanotechnology research is having an impact on R&D at Fortune 5000 companies as well as health and environmental issues. ...

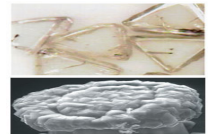
Relevance: 61

[Cellular electrical fields are measured](#) [nanotube] [device] [nanoscale] [carbon] [electrons]

New nanotube measurement method created (October 15, 2007) -- U.S. engineers have developed a technology that will enable scientists to measure the performance of carbon nanotubes. ... (UPI) -- U.S. scientists have developed a wireless, nanoscale voltmeter that can measure electrical fields inside individual cells.... Relevance: 77

[Nanotechnology-based drug delivery systems](#) [nanotubes] [molecular] The use of nanomaterials including peptide-based nanotubes to target the vascular endothelial growth factor (VEGF) receptor and cell adhesion molecules like integrins, cadherins and selectins, is a new approach to control disease progression. ... In this review we discussed recent developments in nanotechnology for drug delivery. ... Relevance: 5

[Diamond's Surface Conductivity](#) [electronic] [nanotubes] [carbon] Angus and colleagues have observed that charge transfer affects luminescence of gallium nitride, and they speculate that it might explain humidity-dependent characteristics of mechanical friction and why charge carriers in vacuum-annealed, single-walled carbon nanotubes change from electrons to positively charged holes when the tubes are exposed to air. ... How undoped diamond develops surface conductivity in air had been unknown, but a team of researchers led by John C. ... Relevance: 68



[Using Nanotechnology, Cancer Cells "Feel" Much Softer than Normal Cells](#) [nanoelectronics] [Atomic]

CNSI members include some of the world's preeminent scientists, and the work conducted at the institute represents world-class expertise in five targeted areas of nanosystems-related research: renewable energy, environmental nanotechnology and nanotoxicology, nanobiotechnology and biomaterials, nanomechanical and nanofluidic systems, and nanoelectronics, photonics and architectonics. ... A multidisciplinary team of UCLA scientists were able to differentiate metastatic cancer cells from normal cells in patient samples using leading-edge nanotechnology that measures the softness of the cells.... Relevance: 54



[Using nanotechnology, UCLA researchers discover cancer cells 'feel' much softer than normal cells](#) [nanoelectronics] [Atomic] CNSI members include some of the worlds preeminent scientists, and the work conducted at the institute represents world-class expertise in five targeted areas of nanosystems-related research: renewable energy, environmental nanotechnology and nanotoxicology, nanobiotechnology and biomaterials, nanomechanical and nanofluidic systems, and nanoelectronics, photonics and architectonics. ... Using nanotechnology, UCLA researchers discover cancer cells 'feel' much softer than normal cells... Relevance: 69

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