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[Scaling up by scaling down](#) [nanowires] [nanoscale] [molecular] [atomic] [switches] And those wires are going to be at least a factor of 10 wider than the nanowires that we can put down. ... Future of IT: Nanotechnology promises a breakthrough in computer chips... Relevance: 63

[For chips, the next step is a great leap](#) [Nanoelectronics] [switches] [transistors] [nanotubes] [nanoscale] "The reason CMOS has been valuable to us is because we have been able to improve it every year," putting more and faster circuits and transistors into each square inch of chip, said Jeff Welser, director of the Semiconductor Research Corp.'s Nanoelectronics Research Initiative. ... NIST scientists also will be collaborating with industry and university researchers.... Relevance: 75

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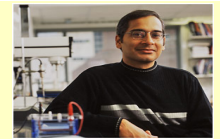
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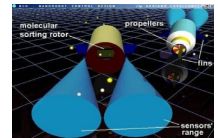
[Using Carbon Nanotubes To Seek and Destroy Anthrax Toxin and Other Harmful Proteins](#) [Nanotubes] [Carbon] [switch]

Using Carbon Nanotubes To Seek and Destroy Anthrax Toxin and Other Harmful Proteins ... Researchers at Rensselaer Polytechnic Institute have developed a new way to seek out specific proteins, including dangerous proteins such as anthrax toxin, and render them harmless using nothing but light. ...

Relevance: 87



[Nanorobots for drug delivery?](#) [nanoelectronics] [molecular] [devices] ??If you consider the velocity that miniaturization is moving, from micro to nanoelectronics, then you can easily understand the feasibility to have medical nanorobots integrated as a nanoelectronic molecular machine before 2015,? he predicted, adding that nanorobots, like all medical technologies, would still need to undergo safety testing, which would push back the date for mass production and commercialization.?... Now, an international team of researchers has designed a software and hardware platform of... Relevance: 70



[Radio Waves Fire Up Nanotubes Embedded in Tumors, Destroying Liver Cancer](#)

[Nanotubes] [carbon] Radio Waves Fire Up Nanotubes Embedded in Tumors, Destroying Liver Cancer ... In a paper published in the journal Cancer, the researchers demonstrated that the technique completely destroyed liver cancer tumors in rabbits. ... Relevance: 74

[Successful MEDEA collaboration to continue under CATRENE](#) [NanoElectronics]

[electronics] [devices] Replacing MEDEA starting in January will be a new public-private partnership, "CATRENE" (Cluster for Application and Technology Research in Europe on NanoElectronics), a ?6B (US ~ \$8.7B) four-year program (extendable another four years, as was MEDEA) to take up the challenge of help Europe's microelectronics industry develop and maintain strengths in nanoelectronics. ...

Relevance: 56

[NASA ARC Notice of Availability of Inventions for Licensing](#) [Nanotube] [Carbon] ARC-

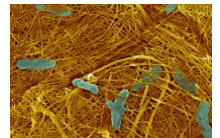
15173-2: Nanoengineered Thermal Materials Based on Carbon Nanotube Array Composites ; ... Source: Ames Research Center... Relevance: 21

[NASA GSFC Notice of Availability of Inventions for Licensing](#) [Nanowire] [Device] GSC-15368-1: Nanowire Device and Method of Making a Nanowire Device ; ...
SUMMARY: The inventions listed below assigned to the National Aeronautics and Space Administration, have been filed in the United States Patent and... Relevance: 6

[Presentation examines how small things can be produced](#) [nanoelectronic] [devices] His lecture will describe nanotechnology in general and discuss different micro and nanoelectronic devices. ... Science Visions and the Brookings Public Library have been collaborating to host Science Café events. ... Relevance: 65



[Nanotube-producing bacteria show manufacturing promise](#) [Nanotube] [nanoelectronic] [devices] [electronic] [Nanoscale] Nanotube-producing bacteria show manufacturing promise ... Nanotubes may have high-tech applications, study involving UCR engineers reports... Relevance: 83



[Chip tester Verigy buys debugging firm](#) [nanoelectronics] [devices] [electronic] Given the design complexity of semiconductor and nanoelectronics process technologies, which substantially drives up manufacturing costs time-to-yield is considered a critical competitive metric in the industry. ... Verigy, a maker of semiconductor testing equipment, has signed an agreement to buy privately-held Inovys for its design and debugging software.... Relevance: 45

[Verigy?s Inovys buy aims to boost semiconductor time-to-yield](#) [nanoelectronics] [Electronic] [devices] Since the design complexity of advanced SoC devices combined with challenging nanoelectronics process technologies drives up the cost of manufacturing, and the fact that 300 mm fabs are very capital-intensive, achieving return-on-investment requires a specified level of yield, or ?entitled yield.? This means minimizing the time to reach yield is critical. ... , a privately-held provider of semiconductor design debug, failure analysis and yield acceleration software tools, for an undisclosed amount.... Relevance: 36

[IBM says chip 'breakthrough' will shrink supercomputers](#) [nanowires] [device]

[Electronics] The nanotech researcher explained that nanowires -- 1,000 times thinner than a human hair -- will someday go into PCs, laptops, cell phones or even supercomputers. ... By reducing energy consumption and heat emission, the optical connections would enable today's dual-core and quad-core chips to grow exponentially into hundreds or thousands of cores in a single chip, according to Will Green, an IBM research scientist, who has been working on the company's silicon photonics project for the past five years.... Relevance: 32

[Nanobioelectronic System that Controls Enzymatic Activity](#) [nanotubes] [electronic]

[carbon] [switch] [devices] Joseph Wang at Arizona State University developed an electronic switch, based on carbon nanotubes (CNTs), that can control enzymatic reaction of alcohol dehydrogenase conversion of ethanol into acetaldehyde. ... 's Michael Berger is reporting that scientists under Dr. ... Relevance: 51

[Nanobioelectronic system triggers enzyme activity](#) [nanowires] [electrons] [magneto]

[nanotube] [devices] An example of recent advances in the field is the work of researchers in the U.S. who have designed an integrated nanobioelectronic system, exploiting the distinct properties of nanowires and carbon-nanotubes (CNTs), for triggering reversibly and on-demand bioelectrocatalytic transformations of alcohols. ... Relevance: 53

[India rolls out nanotech initiative](#) [nanotubes] [transistor]

Rao's work on nanotubes, through which junction nanotubes were developed at the Jawaharlal Nehru Center for Advanced Scientific Research (JNASCR), Bengaluru, found even earlier application in IBM's efforts to design the world's smallest transistor. ... BENGALURU, India — India's national nanotechnology program is rolling out as the first of three Institutes for Nano Science and Technology is inaugurated under the federal government's \$250 million national initiative in support of nanotechnological research. ... Relevance: 60

[EETimes.com - India rolls out nanotech initiative](#) [nanotubes] [transistor] Rao's work on nanotubes, through which junction nanotubes were developed at the Jawaharlal Nehru Center for Advanced Scientific Research (JNASCR), Bengaluru, found even earlier application in IBM's efforts to design the world's smallest transistor. ... BENGALURU, India — India's national nanotechnology program is rolling out as the first of three Institutes for Nano Science and Technology is inaugurated under the federal government's \$250 million national initiative in support of nanotechnological research. ... Relevance: 66

[India's rolls out nanotech initiative](#) [nanotubes] [transistor] Rao's work on nanotubes, through which junction nanotubes were developed at the Jawaharlal Nehru Center for Advanced Scientific Research (JNASCR), Bengaluru, found even earlier application in IBM's efforts to design the world's smallest transistor. ... BENGALURU, India — India's national nanotechnology program is rolling out as the first of three Institutes for Nano Science and Technology is inaugurated under the federal government's \$250 million national initiative in support of nanotechnological research. ... Relevance: 60

[To the Editor](#) [nanotubes] [carbon] (2007) report on the lung and systemic responses to carbon nanotubes (CNT) in mice. ... In their recent publication in Toxicological Sciences Mitchell et al. ... Relevance: 5

[Revolution ahead in data storage, say IT wizards](#) [electronics] [transistors] [nanoelectronics] [nanotubes] [nanowires] Finally, Charles Lieber and Wei Lu of Harvard University discuss so-called "bottom up" assembly of nanotubes and nanowires in electronic circuits that could one day replace silicon technology in nanoelectronics. ... The newest developments in "spintronics", for example, are poised to go beyond the electrical charge of classic electronics to harness the quantum "spin" state of electrons, writes Albert Fert, co-winner last month of the Nobel Prize for Physics.... Relevance: 50



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