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NanoScienceWorks.org Listings:
969 biographies
225 institutions

Latest Research

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[Breakthroughs in Nanotechnology on Edge of 'Knowledge Frontier'](#)

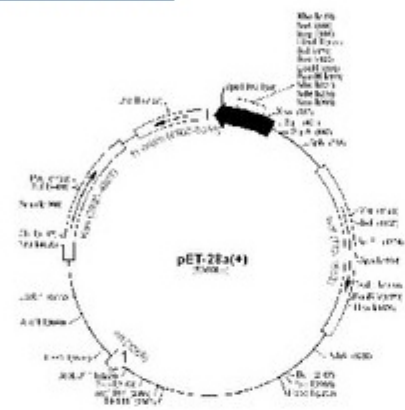
Kattesh Katti, professor of radiology and physics and senior research scientist at the MU Research Reactor, was honored on Tuesday, March 4, with the Outstanding Missourian Award for his work in treating cancer. Katti recently discovered how to make gold nanoparticles using gold salts, soybeans and water – research that has garnered worldwide attention and could have applications in several disciplines.



Disciplines: [Nanoparticles](#)

[Nanoscale 'Tags' for Encoding Data onto DNA](#)

University of California (Riverside) researchers across biology, computer science, engineering, and nanosciences have come together to develop a way to 'tag' DNA strands with additional information, and eliminate the need for expensive DNA sequencing equipment.



Disciplines: [Nanobiotechnology](#)

[Exploring Nano-Magnets to Fight Disease](#)

Researchers at Children's Hospital (Boston, Mass.) are exploring 'magnetic control' at the single-cell level, which researchers say could lead to finely-tuned but noninvasive treatments for disease.

Disciplines: [Nanobiotechnology](#)

[Sweden's RIT Explores Silicon Nanoribbons](#)

Semiconductor nanoribbons, a thin sheet of silicon placed on an oxidized silicon substrate, can detect biomolecules at high sensitivity say researchers at Sweden's Royal Institute of Technology.

Disciplines:

Nanoscience Newsmakers

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[Heath, James R.](#)

Elizabeth W. Gilloon Professor of Chemistry
Caltech

Disciplines: [Chemistry](#)



[Minko, Sergiy](#)

Egon Matijevic Chaired Professor
Clarkson University

Disciplines: [Nanostructures](#) [Nanoparticles](#) [Polymers](#)

[Aluru, Narayana R.](#)

Willett Faculty Scholar Professor
University of Illinois at Urbana-Champaign

Disciplines: [Engineering](#) [Nanofluidics](#)

[Gangopadhyay, Shubhra](#)

LaPierre Chair and Professor
Electrical and Computer Engineering
University of Missouri - Columbia

Disciplines: [Electronics](#) [Engineering](#) [Nanomaterials](#)

Just In Print



[Understanding Fault Tolerance in Quantum](#)

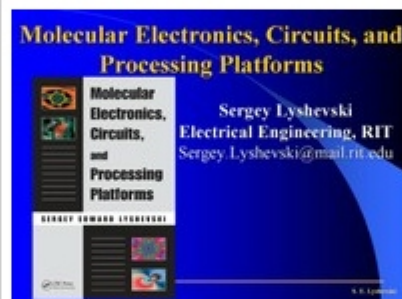
Computing

Quantum Error Correction and Fault Tolerant Quantum Computing offers the first full-length exposition on the realization of a theory once thought impossible. It brings together the central themes of quantum error correction and fault-tolerant procedures to prove the accuracy threshold theorem for a particular noise error model. The author also includes a derivation of well-known bounds on the parameters of quantum error correcting code.

[Preview this book.](#)

SlideCasts

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Molecular Electronics

5:50 mins.

Sergey E. Lyshevski (Rochester Institute of Technology) discusses the core science and future trends in molecular electronics (or nanoscale electronics). His discussion also includes a look at prospects for how this emerging field will help engineers devise and implement novel high-performance devices at the atomic and molecular

levels, as well as help to improve yields for electronics fabrication.

Tags: [Electronics](#) [Engineering](#) [Physics](#)

Special Features

[DOWNLOAD: NNI FY2009 Budget Summary](#)



A copy of the U.S. National Nanotechnology Initiative (NNI) budget for FY2009 is now available. Released by the Nanoscale Science, Engineering, and Technology (NSET) Subcommittee of the National Science and Technology Council's Committee on Technology. This 4-page summary report provides added details on NNI's \$1.5 billion budget request, as well as highlights planned NNI activities. [Click here to Download.](#)

Featured Institutions

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[Ben Gurion University \(Institute of Applied Biosciences\)](#)

The role of the Institute for Applied Biosciences is to serve as Ben-Gurion University's Center for biotechnology, which has recognized importance of nanoscale biosensors and nanoelectronics for medicine, environmental quality, and other areas. The school takes a broad multi-disciplinary approach to basic and applied research.

Disciplines: [Chemistry](#) [Nanofluidics](#) [Engineering](#) [Nanomedicine](#) [Nanomaterials](#) [Quantum](#) [Dots](#) [Modeling](#)



Ben Gurion University (Institute of Applied Biosciences)

[Indiana University \(Jacobson Research Group\)](#)



The Indiana University (Bloomington) Jacobson Research Group supports a variety of nanoscale imaging programs for research and fabrication, including photolithography.

Disciplines: [Nanomedicine](#) [Nanomaterials](#) [Nanometrology](#)

[Nanostructures](#)