

Milestone of the Day

2002 - Discovery that Solar Neutrinos Change Type Shows Neutrinos Have Mass

To celebrate the Department of Energy's 40th anniversary, the Office of Science has collected 40 major papers from the past 40 years that we've supported via research through our National Laboratories, user facilities, and grants programs.

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THE OFFICE OF SCIENCE PRESENTS

Research milestones over the past 40 years

1977 - 2017

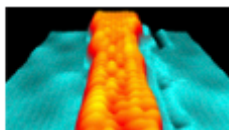
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Artificial Intelligence Analyzes Gravitational Lenses 10 Million Times Faster

SLAC and Stanford researchers demonstrate that brain-mimicking 'neural networks' can revolutionize the way astrophysicists analyze their most complex data, including extreme distortions in spacetime that are crucial for our understanding of the universe. [Read More](#)



Controlling Traffic on the Electron Highway: Researching Graphene

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Berkeley Lab-led team also provides most precise band gap measurement yet for hotly studied monolayer moly sulfide. [Read More](#)

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New Study Looks Deeper Into Atoms Than Ever Before

Researchers at Binghamton University and the Brookhaven National Laboratory have observed a never before seen atomic transformation that may take place in many catalytic reactions.

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Perspectives on Building Nanofactories for Energy and Medical Uses

At the MSU-DOE Plant Research Laboratory (PRL), scientists are learning how bacterial nanofactories are constructed in nature. Recent experiments show we could engineer their building blocks into new structures, for useful applications.

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Niyanth Sridharan: Asking the Right Questions

09.14.17 Niyanth Sridharan grew up in a family that indulged his questions by using real-world examples to explain scientific concepts. That natural curiosity still drives the materials researcher today as he explores additive manufacturing techniques at the Department of Energy's Oak Ridge National Laboratory.

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NERSC Supercomputers Help Berkeley Lab Scientists Map Key DNA Protein Complex

09.14.17 Chalking up another success for a new imaging technology that has energized the field of structural biology, researchers at the Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) obtained the highest resolution map yet of a large assembly of human proteins that is critical to DNA function.

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Physicists Propose New Way to Stabilize Next-Generation Fusion Plasmas

09.12.17 Recent experiments have revealed evidence confirming that losses of up to 40 percent of high-energy particles are observed in experiments when many Alfvén waves are excited by deuterium beam ions used to simulate alpha particles and higher-energy beam ions in a fusion reactor.

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