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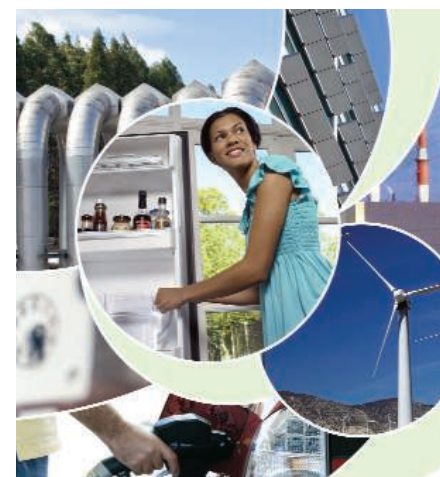
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COVER

Pulsars in our Galaxy newly discovered by the Fermi Gamma-ray Space Telescope, launched in June 2008. The objects emit broad gamma-ray beams that have enabled Fermi to locate a never-before-seen population. Fermi has also seen pulsars with millisecond periods and has detected at least one globular cluster (center left). See the Research Article and two Reports beginning on page 840.

Image: NASA/U.S. Department of Energy/Fermi LAT Collaboration/Sonoma State University/Aurore Simonnet

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- 840** Detection of 16 Gamma-Ray Pulsars Through Blind Frequency Searches Using the Fermi LAT
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- 848** A Population of Gamma-Ray Millisecond Pulsars Seen with the Fermi Large Area Telescope
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Well-designed polymer photodetectors show performance comparable with the best inorganic devices.

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An Acidic Matrix Protein, Pif, Is a Key Macromolecule for Nacre Formation

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A matrix protein is identified that regulates nacre formation in the Japanese pearl oyster.

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A catalyst enables versatile carbon-fluorine bond formation using simple fluoride salts.

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Evidence for Obliquity Forcing of Glacial Termination II

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Researchers investigate mysterious incident off Hawaii 5 years ago.

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RESEARCH ARTICLE: Neuronal and Intestinal Protein Kinase D Isoforms Mediate Na⁺ (Salt Taste)–Induced Learning

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Protein kinase D signaling in the intestine and nervous system enables worms to learn to avoid salt.

RESEARCH ARTICLE: Cooperativity Between T Cell Receptor Complexes Revealed by Conformational Mutants of CD3ε

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