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10 years of Fermi-LAT successes and recent results

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The Fermi Gamma-ray Space Telescope was launched 10 years ago, and since then it has observed the sky mainly in survey mode. In these years the main instrument on board, the Large Area telescope (LAT), has provided unprecedented results on Galactic and extragalactic science. Last year, the LAT collaboration released a catalog of sources detected at energies above 10 GeV, and many follow-up studies have been published. In the near future a new list based on 8 years of data above 100 MeV will be released, which is expected to contain more than 5000 sources. Among them, about a third remain unassociated, meaning that there is not a known counterpart at other energies. What are these gamma-ray sources? I will present a more in-depth look at them discussing their gamma-ray properties and possible interpretations. In this talk I will also show the huge mine of information contained in catalogs and concentrate on the extragalactic sources such as Active Galactic Nuclei reviewing the main recent results.

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