Giuseppe La Vacca

List of Publications by Year
in descending order

55 papers	5,815 citations	172207 29 h-index	161609 54 g-index
57 all docs	57 docs citations	57 times ranked	7207 citing authors

#	Article	IF	Citations
1	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
2	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1ÂGV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	2.9	655
3	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
4	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5â€“500ÂGeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	2.9	428
5	Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121102.	2.9	397
6	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9ÂGV to 3ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 115, 211101.	2.9	369
7	Antiproton Flux, Antiproton-to-Proton Flux Ratio, and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 091103.	2.9	295
8	Precision Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo>+</mml:mo><mml:msu Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 221102.	2.9	238
9	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9ÂGV to 2.6ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 231102.	2.9	236
10	Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2017, 119, 251101.	2.9	204
11	Towards Understanding the Origin of Cosmic-Ray Positrons. Physical Review Letters, 2019, 122, 041102.	2.9	174
12	Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 120, 021101.	2.9	172
13	The Alpha Magnetic Spectrometer (AMS) on the international space station: Part II â€”ÂResults from the first seven years. Physics Reports, 2021, 894, 1-116.	10.3	160
14	Towards Understanding the Origin of Cosmic-Ray Electrons. Physical Review Letters, 2019, 122, 101101.	2.9	109
15	Solution of Heliospheric Propagation: Unveiling the Local Interstellar Spectra of Cosmic-ray Species. Astrophysical Journal, 2017, 840, 115.	1.6	102
16	Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051101.	2.9	98
17	Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051103.	2.9	68
18	Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051102.	2.9	62

#	Article	IF	Citations
19	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	2.9	58
20	Do WMAP data favor neutrino mass and a coupling between Cold Dark Matter and Dark Energy?. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 007-007.	1.9	57
21	Inference of the Local Interstellar Spectra of Cosmic-Ray Nuclei ZÂâ‰Â28 with the GalPropâ€œHelMod Framework. Astrophysical Journal, Supplement Series, 2020, 250, 27.	3.0	56
22	Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 041104.	2.9	46
23	The HelMod model in the works for inner and outer heliosphere: From AMS to Voyager probes observations. Advances in Space Research, 2019, 64, 2459-2476.	1.2	42
24	Deciphering the Local Interstellar Spectra of Secondary Nuclei with the Galprop/Helmod Framework and a Hint for Primary Lithium in Cosmic Rays. Astrophysical Journal, 2020, 889, 167.	1.6	42
25	HelMod in the Works: From Direct Observations to the Local Interstellar Spectrum of Cosmic-Ray Electrons. Astrophysical Journal, 2018, 854, 94.	1.6	40
26	Deciphering the Local Interstellar Spectra of Primary Cosmic-Ray Species with HelMod. Astrophysical Journal, 2018, 858, 61.	1.6	40
27	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	2.9	40
28	Propagation of cosmic rays in heliosphere: The HelMod model. Advances in Space Research, 2018, 62, 2859-2879.	1.2	39
29	On the forwardâ€backwardâ€inâ€time approach for Monte Carlo solution of Parker's transport equation: Oneâ€dimensional case. Journal of Geophysical Research: Space Physics, 2016, 121, 3920-3930.	0.8	31
30	Periodicities in the Daily Proton Fluxes from 2011 to 2019 Measured by the Alpha Magnetic Spectrometer on the International Space Station from 1 to 100ÂGV. Physical Review Letters, 2021, 127, 271102.	2.9	27
31	Tomographic weak-lensing shear spectra from large<i>N</i>-body and hydrodynamical simulations. Astronomy and Astrophysics, 2012, 542, A126.	2.1	23
32	The Discovery of a Low-energy Excess in Cosmic-Ray Iron: Evidence of the Past Supernova Activity in the Local Bubble. Astrophysical Journal, 2021, 913, 5.	1.6	20
33	Higher neutrino mass allowed if Cold Dark Matter and Dark Energy are coupled. New Astronomy, 2009, 14, 435-442.	0.8	19
34	Coupling between cold dark matter and dark energy from neutrino mass experiments. New Astronomy, 2010, 15, 609-613.	0.8	19
35	Non-linear weak lensing forecasts. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 026-026.	1.9	19
36	Properties of Heavy Secondary Fluorine Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 081102.	2.9	19

#	Article	IF	Citations
37	Properties of a New Group of Cosmic Nuclei: Results from the Alpha Magnetic Spectrometer on Sodium, Aluminum, and Nitrogen. Physical Review Letters, 2021, 127, 021101.	2.9	18
38	Dark energy from dark radiation in strongly coupled cosmologies with no fine tuning. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 015-015.	1.9	16
39	Gravitational lensing constraints on dynamical and coupled dark energy. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 007.	1.9	15
40	DARK MATTER-DARK ENERGY COUPLING BIASING PARAMETER ESTIMATES FROM COSMIC MICROWAVE BACKGROUND DATA. Astrophysical Journal, 2009, 697, 1946-1955.	1.6	15
41	Properties of Daily Helium Fluxes. Physical Review Letters, 2022, 128, .	2.9	15
42	Dynamical Dark Energy model parameters with or without massive neutrinos. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 036-036.	1.9	10
43	Mass-varying neutrino in light of cosmic microwave background and weak lensing. Astronomy and Astrophysics, 2013, 560, A53.	2.1	10
44	A Hint of a Low-energy Excess in Cosmic-Ray Fluorine. Astrophysical Journal, 2022, 925, 108.	1.6	6
45	The transport of galactic cosmic rays in heliosphere: The HelMod model compared with other commonly employed solar modulation models. Advances in Space Research, 2022, 70, 2636-2648.	1.2	6
46	Mildly mixed coupled models vs. WMAP7 data. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 68-71.	0.5	3
47	Do WMAP data favor neutrino mass and a coupling between Cold Dark Matter and Dark Energy ?. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 254-259.	0.5	2
48	Constraints on Dark Energy state equation with varying pivoting redshift. New Astronomy, 2014, 26, 106-111.	0.8	2
49	The HelMod Monte Carlo Model for the Propagation of Cosmic Rays in Heliosphere. Proceedings of the International Astronomical Union, 2017, 13, 276-279.	0.0	2
50	A quantitative study on the effects of external geomagnetic fields by using the GeoMagSphere back-tracing code. Advances in Space Research, 2021, 68, 2904-2918.	1.2	2
51	Comparison and Time Evolution of the Geomagnetic Cutoff at the ISS Position: Internal vs External Earthâ€™s Magnetic Field Models. Proceedings of the International Astronomical Union, 2017, 13, 105-108.	0.0	1
52	Anisotropy of cosmic ray fluxes measured with AMS-02 on the ISS. Journal of Physics: Conference Series, 2020, 1468, 012083.	0.3	1
53	Forecasting of cosmic rays intensities with HelMod Model. Advances in Space Research, 2022, , .	1.2	1
54	Do WMAP data favor neutrino mass and a coupling between Cold Dark Matter and Dark Energy?. , 2010, , .		0

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55	Spectra of Cosmic-Ray Sodium and Aluminum and Unexpected Aluminum Excess. Astrophysical Journal, 2022, 933, 147.	1.6	0