Philipp Mertsch

List of Publications by Year
in descending order

27	1,160	471509 17	580821 25
papers	citations	h-index	g-index

27	27	27	1372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	No Longer Ballistic, Not Yet Diffusiveâ€"the Formation of Cosmic-Ray Small-scale Anisotropies. Astrophysical Journal, 2022, 927, 110.	4.5	2
2	Self-confinement of low-energy cosmic rays around supernova remnants. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 024.	5.4	6
3	Stochastic Fluctuations of Low-Energy Cosmic Rays and the Interpretation of Voyager Data. Physical Review Letters, 2021, 127, 141101.	7.8	19
4	Explaining cosmic ray antimatter with secondaries from old supernova remnants. Physical Review D, 2021, 104, .	4.7	16
5	Test particle simulations of cosmic rays. Astrophysics and Space Science, 2020, 365, 1.	1.4	24
6	Breaks in interstellar spectra of positrons and electrons derived from time-dependent AMS data. Physical Review D, 2019, 100, .	4.7	25
7	The origin of Galactic cosmic rays: Challenges to the standard paradigm. International Journal of Modern Physics D, 2019, 28, 1930022.	2.1	108
8	Time-Dependent AMS-02 Electron-Positron Fluxes in an Extended Force-Field Model. Physical Review Letters, 2019, 123, 251104.	7.8	13
9	Stochastic cosmic ray sources and the TeV break in the all-electron spectrum. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 045-045.	5.4	25
10	Detection prospects for high energy neutrino sources from the anisotropic matter distribution in the local Universe. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 011-011.	5.4	16
11	Origin of small-scale anisotropies in Galactic cosmic rays. Progress in Particle and Nuclear Physics, 2017, 94, 184-216.	14.4	49
12	Footprints of Loop I on Cosmic Microwave Background maps. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 023-023.	5.4	5
13	SMALL-SCALE ANISOTROPIES OF COSMIC RAYS FROM RELATIVE DIFFUSION. Astrophysical Journal Letters, 2015, 815, L2.	8.3	27
14	Solution to the Cosmic Ray Anisotropy Problem. Physical Review Letters, 2015, 114, 021101.	7.8	46
15	What does the PAMELA antiproton spectrum tell us about dark matter?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 021-021.	5.4	64
16	A hadronic explanation of the lepton anomaly. Journal of Physics: Conference Series, 2014, 531, 012008.	0.4	0
17	AMS-02 data confront acceleration of cosmic ray secondaries in nearby sources. Physical Review D, 2014, 90, .	4.7	87
18	FINGERPRINTS OF GALACTIC LOOP I ON THE COSMIC MICROWAVE BACKGROUND. Astrophysical Journal Letters, 2014, 789, L29.	8.3	62

#	Article	IF	Citations
19	Loops and spurs: the angular power spectrum of the Galactic synchrotron background. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 041-041.	5.4	31
20	Loop-induced dark matter direct detection signals from Î³-ray lines. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 033-033.	5.4	63
21	Second-order Fermi acceleration as the origin of the Fermi bubbles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 692, 265-268.	1.6	0
22	The high energy neutrino cross-section in the Standard Model and its uncertainty. Journal of High Energy Physics, 2011, 2011, 1.	4.7	143
23	A new analytic solution for 2nd-order Fermi acceleration. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 010-010.	5.4	10
24	Fermi Gamma-Ray â€œBubblesâ€•from Stochastic Acceleration of Electrons. Physical Review Letters, 2011, 107, 091101.	7.8	94
25	Systematic effects in the extraction of the `WMAP haze'. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 019-019.	5.4	15
26	Testing Astrophysical Models for the PAMELA Positron Excess with Cosmic Ray Nuclei. Physical Review Letters, 2009, 103, 081104.	7.8	106
27	Cosmic ray acceleration in supernova remnants and the FERMI/PAMELA data. Physical Review D, 2009, 80, .	4.7	104