# 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 | The high energy neutrino cross-section in the Standard Model and its uncertainty. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 143 |
| 2 | The origin of Galactic cosmic rays: Challenges to the standard paradigm. International Journal of Modern Physics D, 2019, 28, 1930022. | 2.1 | 108 |
| 3 | Testing Astrophysical Models for the PAMELA Positron Excess with Cosmic Ray Nuclei. Physical Review Letters, 2009, 103, 081104. | 7.8 | 106 |
| 4 | Cosmic ray acceleration in supernova remnants and the FERMI/PAMELA data. Physical Review D, 2009, 80, . | 4.7 | 104 |
| 5 | Fermi Gamma-Ray â€œBubblesâ€•from Stochastic Acceleration of Electrons. Physical Review Letters, 2011, 107, 091101. | 7.8 | 94 |
| 6 | AMS-02 data confront acceleration of cosmic ray secondaries in nearby sources. Physical Review D, 2014, 90, . | 4.7 | 87 |
| 7 | What does the PAMELA antiproton spectrum tell us about dark matter?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 021-021. | 5.4 | 64 |
| 8 | Loop-induced dark matter direct detection signals from Î³-ray lines. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 033-033. | 5.4 | 63 |
| 9 | FINGERPRINTS OF GALACTIC LOOP I ON THE COSMIC MICROWAVE BACKGROUND. Astrophysical Journal Letters, 2014, 789, L29. | 8.3 | 62 |
| 10 | Origin of small-scale anisotropies in Galactic cosmic rays. Progress in Particle and Nuclear Physics, 2017, 94, 184-216. | 14.4 | 49 |
| 11 | Solution to the Cosmic Ray Anisotropy Problem. Physical Review Letters, 2015, 114, 021101. | 7.8 | 46 |
| 12 | 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 |
| 13 | SMALL-SCALE ANISOTROPIES OF COSMIC RAYS FROM RELATIVE DIFFUSION. Astrophysical Journal Letters, 2015, 815, L2. | 8.3 | 27 |
| 14 | 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 |
| 15 | Breaks in interstellar spectra of positrons and electrons derived from time-dependent AMS data. Physical Review D, 2019, 100, . | 4.7 | 25 |
| 16 | Test particle simulations of cosmic rays. Astrophysics and Space Science, 2020, 365, 1. | 1.4 | 24 |
| 17 | Stochastic Fluctuations of Low-Energy Cosmic Rays and the Interpretation of Voyager Data. Physical Review Letters, 2021, 127, 141101. | 7.8 | 19 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Explaining cosmic ray antimatter with secondaries from old supernova remnants. Physical Review D, 2021, 104, . | 4.7 | 16 |
| 20 | Systematic effects in the extraction of the `WMAP haze'. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 019-019. | 5.4 | 15 |
| 21 | Time-Dependent AMS-02 Electron-Positron Fluxes in an Extended Force-Field Model. Physical Review Letters, 2019, 123, 251104. | 7.8 | 13 |
| 22 | A new analytic solution for 2nd-order Fermi acceleration. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 010-010. | 5.4 | 10 |
| 23 | Self-confinement of low-energy cosmic rays around supernova remnants. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 024. | 5.4 | 6 |
| 24 | Footprints of Loop I on Cosmic Microwave Background maps. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 023-023. | 5.4 | 5 |
| 25 | No Longer Ballistic, Not Yet Diffusiveâ€”the Formation of Cosmic-Ray Small-scale Anisotropies. Astrophysical Journal, 2022, 927, 110. | 4.5 | 2 |
| 26 | 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 |
| 27 | A hadronic explanation of the lepton anomaly. Journal of Physics: Conference Series, 2014, 531, 012008. | 0.4 | 0 |