

Neal Weiner

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

8,470
citations

50276

46
h-index

45317

90
g-index

90
all docs

90
docs citations

90
times ranked

8155
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A theory of dark matter. <i>Physical Review D</i> , 2009, 79, . | 4.7 | 1,218 |
| 2 | Inelastic dark matter. <i>Physical Review D</i> , 2001, 64, . | 4.7 | 601 |
| 3 | Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211. | 6.7 | 350 |
| 4 | Dark energy from mass varying neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 005-005. | 5.4 | 304 |
| 5 | Cores in Dwarf Galaxies from Dark Matter with a Yukawa Potential. <i>Physical Review Letters</i> , 2011, 106, 171302. | 7.8 | 280 |
| 6 | Exciting dark matter and the INTEGRAL/SPI 511 keV signal. <i>Physical Review D</i> , 2007, 76, . | 4.7 | 274 |
| 7 | LHC signals for a SuperUnified theory of Dark Matter. <i>Journal of High Energy Physics</i> , 2008, 2008, 104-104. | 4.7 | 256 |
| 8 | Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015, 9-10, 8-23. | 4.9 | 250 |
| 9 | Neutrino Mass Anarchy. <i>Physical Review Letters</i> , 2000, 84, 2572-2575. | 7.8 | 230 |
| 10 | THE FERMI-HAZE: A GAMMA-RAY COUNTERPART TO THE MICROWAVE HAZE. <i>Astrophysical Journal</i> , 2010, 717, 825-842. | 4.5 | 226 |
| 11 | Dirac Gaugino Masses and Supersoft Supersymmetry Breaking. <i>Journal of High Energy Physics</i> , 2002, 2002, 035-035. | 4.7 | 221 |
| 12 | Dark matter direct detection with non-Maxwellian velocity structure. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 030-030. | 5.4 | 182 |
| 13 | Status of inelastic dark matter. <i>Physical Review D</i> , 2005, 72, . | 4.7 | 171 |
| 14 | CoGeNT interpretations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 018-018. | 5.4 | 165 |
| 15 | Neutrino Oscillations as a Probe of Dark Energy. <i>Physical Review Letters</i> , 2004, 93, 091801. | 7.8 | 155 |
| 16 | Inelastic dark matter in light of DAMA/LIBRA. <i>Physical Review D</i> , 2009, 79, . | 4.7 | 151 |
| 17 | Small neutrino masses from supersymmetry breaking. <i>Physical Review D</i> , 2001, 64, . | 4.7 | 147 |
| 18 | Integrating out astrophysical uncertainties. <i>Physical Review D</i> , 2011, 83, . | 4.7 | 129 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Halometry from astrometry. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 041-041. | 5.4 | 59 |
| 38 | PAMELA, DAMA, INTEGRAL and signatures of metastable excited WIMPs. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 037-037. | 5.4 | 56 |
| 39 | Little inflatons and gauge inflation. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 005-005. | 5.4 | 55 |
| 40 | Visible Cascade Higgs Decays to Four Photons at Hadron Colliders. Physical Review Letters, 2007, 98, 111802. | 7.8 | 54 |
| 41 | An effective χ^2 Physical Review D, 2011, 84, . | 4.7 | 54 |
| 42 | Solving the hierarchy problem with exponentially large dimensions. Physical Review D, 2000, 62, . | 4.7 | 51 |
| 43 | Using the energy spectrum measured by DAMA/LIBRA to probe light dark matter. Physical Review D, 2009, 79, . | 4.7 | 50 |
| 44 | Inelastic dark matter and DAMA/LIBRA: An experimentum crucis. Physical Review D, 2009, 80, . | 4.7 | 49 |
| 45 | Flavor at the TeV scale with extra dimensions. Physical Review D, 2000, 61, . | 4.7 | 47 |
| 46 | UV completions of magnetic inelastic and Rayleigh dark matter for the Fermi Line(s). Physical Review D, 2013, 87, . | 4.7 | 47 |
| 47 | Signals of a light dark force in the galactic center. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 46 |
| 48 | Exponentially small supersymmetry breaking from extra dimensions. Physical Review D, 2001, 63, . | 4.7 | 44 |
| 49 | A CoGeNT modulation analysis. Physical Review D, 2012, 85, . | 4.7 | 44 |
| 50 | Supersymmetric theories of neutrino dark energy. Journal of High Energy Physics, 2006, 2006, 042-042. | 4.7 | 43 |
| 51 | High energy electron signals from dark matter annihilation in the Sun. Physical Review D, 2010, 82, . | 4.7 | 41 |
| 52 | X-ray line from exciting dark matter. Physical Review D, 2016, 94, . | 4.7 | 39 |
| 53 | Higgs friends and counterfeits at hadron colliders. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 38 |
| 54 | The dark side of the electroweak phase transition. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | THE <i>FERMI</i> GAMMA-RAY HAZE FROM DARK MATTER ANNIHILATIONS AND ANISOTROPIC DIFFUSION. <i>Astrophysical Journal</i> , 2011, 741, 25. | 4.5 | 36 |
| 56 | Capture and indirect detection of inelastic dark matter. <i>Physical Review D</i> , 2010, 82, . | 4.7 | 35 |
| 57 | Effect of Thallium Impurities in the DAMA Experiment on the Allowed Parameter Space for Inelastic Dark Matter. <i>Physical Review Letters</i> , 2011, 106, 011301. | 7.8 | 33 |
| 58 | Late forming dark matter in theories of neutrino dark energy. <i>Physical Review D</i> , 2011, 84, . | 4.7 | 30 |
| 59 | Dark matter detection in two easy steps. <i>Physical Review D</i> , 2014, 89, . | 4.7 | 30 |
| 60 | Vectorlike fermions and Higgs couplings. <i>Physical Review D</i> , 2012, 86, . | 4.7 | 29 |
| 61 | Light signals from a lighter Higgs. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 29 |
| 62 | Neutrino mass, sneutrino dark matter and signals of lepton flavor violation in the MRSSM. <i>Journal of High Energy Physics</i> , 2010, 2010, 1. | 4.7 | 28 |
| 63 | Goldstone Gauginos. <i>Physical Review Letters</i> , 2015, 115, 161801. | 7.8 | 27 |
| 64 | Looking for new charged states at the LHC: signatures of magnetic and Rayleigh dark matter. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 4.7 | 25 |
| 65 | Inelastic dark matter at DAMA, CDMS and future experiments. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 124, 197-200. | 0.4 | 24 |
| 66 | CMB and 21-cm signals for dark matter with a long-lived excited state. <i>Physical Review D</i> , 2008, 78, . | 4.7 | 24 |
| 67 | Electroweak unification into a five-dimensional SU(3) at a TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 534, 124-130. | 4.1 | 21 |
| 68 | Mixed sneutrinos, dark matter, and the CERN LHC. <i>Physical Review D</i> , 2008, 77, . | 4.7 | 21 |
| 69 | Dark matter in light of the LUX results. <i>Physical Review D</i> , 2014, 89, . | 4.7 | 21 |
| 70 | First Results on Dark Matter Substructure from Astrometric Weak Lensing. <i>Physical Review Letters</i> , 2020, 125, 111101. | 7.8 | 20 |
| 71 | New matter effects and BBN constraints for mass-varying neutrinos. <i>Physical Review D</i> , 2006, 74, . | 4.7 | 19 |
| 72 | Peaked signals from dark matter velocity structures in direct detection experiments. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 032-032. | 5.4 | 19 |

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|----|---|-----|-----------|
| 73 | Electromagnetic signals of inelastic dark matter scattering. Journal of High Energy Physics, 2022, 2022, . | 4.7 | 19 |
| 74 | Large Extra Dimensions from a Small Extra Dimension. Journal of High Energy Physics, 2002, 2002, 001-001. | 4.7 | 18 |
| 75 | U(2) and maximal mixing of $\hat{1}/2\hat{1}/4$. Physical Review D, 1999, 60, . | 4.7 | 16 |
| 76 | Nuclear scattering of dark matter coupled to a new light scalar. Physical Review D, 2008, 78, . | 4.7 | 15 |
| 77 | Models of Goldstone gauginos. Physical Review D, 2016, 93, . | 4.7 | 15 |
| 78 | Power of halometry. Physical Review D, 2020, 102, . | 4.7 | 15 |
| 79 | Sommerfeld-enhanced annihilation in dark matter substructure: Consequences for constraints on cosmic-ray excesses. Physical Review D, 2012, 86, . | 4.7 | 14 |
| 80 | A collective breaking of R-parity. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 14 |
| 81 | Hiding missing energy in missing energy. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 13 |
| 82 | A portalino to the dark sector. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 11 |
| 83 | Nonstandard Higgs decays with visible and missing energy. Journal of High Energy Physics, 2008, 2008, 074-074. | 4.7 | 10 |
| 84 | Cosmic ray positrons from annihilations into a new, heavy lepton. Physical Review D, 2009, 80, . | 4.7 | 10 |
| 85 | Alternative theories of CP violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 425, 119-125. | 4.1 | 8 |
| 86 | Electroweakinos hiding in Higgs searches. Physical Review D, 2012, 85, . | 4.7 | 5 |
| 87 | Charged Higgs signals in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle t \langle \text{mml:mi} \rangle \langle \text{mml:mover accent="true"} \rangle \langle \text{mml:mi} \rangle t \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \hat{\text{A}} \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ searches. Physical Review D, 2017, 96, . | 4.7 | 5 |
| 88 | Sensitivity and insensitivity of galaxy cluster surveys to new physics. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 006. | 5.4 | 4 |
| 89 | Supersymmetry with a sister Higgs boson. Physical Review D, 2015, 91, . | 4.7 | 4 |
| 90 | Halometry from Astrometry: New Gravitational Methods to Search for Dark Matter. Thirty Years of Astronomical Discovery With UKIRT, 2019, , 153-159. | 0.3 | 1 |