

# Hai-Bo Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

5,348  
citations

134610

34  
h-index

232693

48  
g-index

49  
all docs

49  
docs citations

49  
times ranked

6675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical instability of collapsed dark matter halos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 036.	1.9	10
2	Seeding Supermassive Black Holes with Self-interacting Dark Matter: A Unified Scenario with Baryons. <i>Astrophysical Journal Letters</i> , 2021, 914, L26.	3.0	31
3	Density spikes near black holes in self-interacting dark matter halos and indirect detection constraints. <i>Physical Review D</i> , 2021, 104, .	1.6	6
4	Constraining self-interacting dark matter with the full dataset of PandaX-II. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	12
5	Self-interacting dark matter and small-scale gravitational lenses in galaxy clusters. <i>Physical Review D</i> , 2021, 104, .	1.6	17
6	Relativistic capture of dark matter by electrons in neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 809, 135767.	1.5	48
7	Dark matter cores and cusps in spiral galaxies and their explanations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 027-027.	1.9	45
8	Astrophysical probes of inelastic dark matter with a light mediator. <i>Physical Review D</i> , 2020, 101, .	1.6	11
9	Self-Interacting Dark Matter and the Origin of Ultradiffuse Galaxies NGC1052-DF2 and -DF4. <i>Physical Review Letters</i> , 2020, 125, 111105.	2.9	23
10	Dark kinetic heating of neutron stars from contact interactions with relativistic targets. <i>Physical Review D</i> , 2020, 102, .	1.6	44
11	The structure of dissipative dark matter halos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 051-051.	1.9	23
12	Self-Interacting Dark Matter Subhalos in the Milky Way's Tides. <i>Physical Review Letters</i> , 2020, 124, 141102.	2.9	52
13	Reconciling the Diversity and Uniformity of Galactic Rotation Curves with Self-Interacting Dark Matter. <i>Physical Review X</i> , 2019, 9, .	2.8	77
14	Displaced lepton jet signatures from self-interacting dark matter bound states. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	3
15	Too big to fail in light of Gaia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 231-242.	1.6	67
16	Constraining Dissipative Dark Matter Self-Interactions. <i>Physical Review Letters</i> , 2019, 123, 121102.	2.9	66
17	The Effect of Dark Matter's Dark Radiation Interactions on Halo Abundance: A Press-Schechter Approach. <i>Astrophysical Journal</i> , 2019, 874, 101.	1.6	16
18	Neutron stars at the dark matter direct detection frontier. <i>Physical Review D</i> , 2018, 97, .	1.6	78

#	ARTICLE	IF	CITATIONS
19	Dark matter self-interactions and small scale structure. Physics Reports, 2018, 730, 1-57.	10.3	617
20	The diverse density profiles of galaxy clusters with self-interacting dark matter plus baryons. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 476, L20-L24.	1.2	62
21	Self-interacting dark matter and muon ( $g \hat{\sim} 2$ ) in a gauged $U(1)_{L_{\mu}}-L_{\tau}$ model. Journal of High Energy Physics, 2018, 2018, 1.	1.6	76
22	Signatures of self-interacting dark matter in the matter power spectrum and the CMB. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 76-81.	1.5	34
23	Constraining Dark Matter Models with a Light Mediator at the PandaX-II Experiment. Physical Review Letters, 2018, 121, 021304.	2.9	57
24	Dark matter self-interactions from the internal dynamics of dwarf spheroidals. Nature Astronomy, 2018, 2, 907-912.	4.2	56
25	The impact of baryonic discs on the shapes and profiles of self-interacting dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2018, 479, 359-367.	1.6	46
26	Self-Interacting Dark Matter Can Explain Diverse Galactic Rotation Curves. Physical Review Letters, 2017, 119, 111102.	2.9	183
27	Spreading out and staying sharp – creating diverse rotation curves via baryonic and self-interaction effects. Monthly Notices of the Royal Astronomical Society, 2017, 468, 2283-2295.	1.6	109
28	Dark Matter Halos as Particle Colliders: Unified Solution to Small-Scale Structure Puzzles from Dwarfs to Clusters. Physical Review Letters, 2016, 116, 041302.	2.9	353
29	Coherent propagation of PeV neutrinos and the dip in the neutrino spectrum at IceCube. Physical Review D, 2015, 92, .	1.6	110
30	Direct detection signatures of self-interacting dark matter with a light mediator. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 055-055.	1.9	56
31	Galactic Center Excess in $\langle \mathcal{M} \rangle^3$ Rays from Annihilation of Self-Interacting Dark Matter. Physical Review Letters, 2015, 114, 211303.	2.9	52
32	Direct detection portals for self-interacting dark matter. Physical Review D, 2014, 89, .	1.6	112
33	Tying Dark Matter to Baryons with Self-Interactions. Physical Review Letters, 2014, 113, 021302.	2.9	113
34	Dark matter at colliders. , 2013, , .		0
35	Resonant Dark Forces and Small-Scale Structure. Physical Review Letters, 2013, 110, 111301.	2.9	147
36	Three exceptions for thermal dark matter with enhanced annihilation to $\langle \mathcal{M} \rangle^3$ . Physical Review D, 2013, 87, .	1.6	38

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37	Beyond collisionless dark matter: Particle physics dynamics for dark matter halo structure. Physical Review D, 2013, 87, .	1.6	330
38	Oscillating asymmetric dark matter. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 013-013.	1.9	64
39	Confluence of constraints in gauge mediation: The 125 GeV Higgs boson and "Goldilocks" cosmology. Physical Review D, 2012, 86, .	1.6	14
40	Symmetric and asymmetric light dark matter. Physical Review D, 2012, 85, .	1.6	120
41	Constraints on scalar asymmetric dark matter from black hole formation in neutron stars. Physical Review D, 2012, 85, .	1.6	149
42	Constraints on light Majorana dark matter from colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 185-188.	1.5	317
43	Distinguishing dark matter annihilation enhancement scenarios via halo shapes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 70-73.	1.5	33
44	Halo-Shape and Relic-Density Exclusions of Sommerfeld-Enhanced Dark Matter Explanations of Cosmic Ray Excesses. Physical Review Letters, 2010, 104, 151301.	2.9	257
45	Sommerfeld enhancements for thermal relic dark matter. Physical Review D, 2010, 82, .	1.6	196
46	Constraints on dark matter from colliders. Physical Review D, 2010, 82, .	1.6	430
47	Hidden charged dark matter. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 004-004.	1.9	341
48	Fermion mass hierarchy and proton stability from nonanomalous supersymmetric		