

Geneviève Böhlinger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6999268/publications.pdf>

Version: 2024-02-01

67
papers

6,571
citations

136950

32
h-index

98798

67
g-index

68
all docs

68
docs citations

68
times ranked

6479
citing authors

#	ARTICLE	IF	CITATIONS
1	micrOMEGAs_3: A program for calculating dark matter observables. Computer Physics Communications, 2014, 185, 960-985.	7.5	582
2	micrOMEGAs 2.0: A program to calculate the relic density of dark matter in a generic model. Computer Physics Communications, 2007, 176, 367-382.	7.5	574
3	Dark matter direct detection rate in a generic model with micrOMEGAs_2.2. Computer Physics Communications, 2009, 180, 747-767.	7.5	561
4	micrOMEGAs: A program for calculating the relic density in the MSSM. Computer Physics Communications, 2002, 149, 103-120.	7.5	493
5	SUSY Les Houches Accord: Interfacing SUSY Spectrum Calculators, Decay Packages, and Event Generators. Journal of High Energy Physics, 2004, 2004, 036-036.	4.7	413
6	micrOMEGAs4.1: Two dark matter candidates. Computer Physics Communications, 2015, 192, 322-329.	7.5	342
7	micrOMEGAs: Version 1.3. Computer Physics Communications, 2006, 174, 577-604.	7.5	332
8	micrOMEGAs5.0 : Freeze-in. Computer Physics Communications, 2018, 231, 173-186.	7.5	327
9	SUSY Les Houches Accord 2. Computer Physics Communications, 2009, 180, 8-25.	7.5	295
10	Indirect search for dark matter with micrOMEGAs_2.4. Computer Physics Communications, 2011, 182, 842-856.	7.5	280
11	Relic density of dark matter in the next-to-minimal supersymmetric standard model. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	5.4	167
12	Global fit to Higgs signal strengths and couplings and implications for extended Higgs sectors. Physical Review D, 2013, 88, .	4.7	155
13	Status of invisible Higgs decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 340-347.	4.1	120
14	Collider limits on new physics within micrOMEGAs $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml19" display="inline" overflow="scroll" altimg="si19.gif" \rangle \langle \text{mml:mtext} \rangle \langle \text{mml:mtext} \rangle \langle \text{mml:math} \rangle$ 4.3. Computer Physics Communications, 2018, 222, 327-338.	7.5	118
15	Automatic calculations in high energy physics and GRACE at one-loop. Physics Reports, 2006, 430, 117-209.	25.6	96
16	Dark matter relic from muon anomalies. Physical Review D, 2015, 92, .	4.7	92
17	Impact of semi-annihilations on dark matter phenomenology. An example of Z symmetric scalar dark matter. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 010-010.	5.4	88
18	Assisted freeze-out. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 038-038.	5.4	79

#	ARTICLE	IF	CITATIONS
19	Dilepton constraints in the inert doublet model from Run 1 of the LHC. <i>Physical Review D</i> , 2015, 91, .	4.7	76
20	The MSSM invisible Higgs in the light of dark matter and $g\tilde{a}^2$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 519, 93-102.	4.1	75
21	A new look at the cosmic ray positron fraction. <i>Astronomy and Astrophysics</i> , 2015, 575, A67.	5.1	74
22	Higgs bosons at 98 and 125 GeV at LEP and the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	68
23	Higgs couplings at the end of 2012. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	67
24	LHC-friendly minimal freeze-in models. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	64
25	Recasting direct detection limits within micrOMEGAs and implication for non-standard dark matter scenarios. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	64
26	Can neutralinos in the MSSM and NMSSM scenarios still be light?. <i>Physical Review D</i> , 2010, 82, .	4.7	59
27	Lower limit on the neutralino mass in the general MSSM. <i>Journal of High Energy Physics</i> , 2004, 2004, 012-012.	4.7	56
28	Minimal semi-annihilating $\tilde{a}, \langle \text{sub} \rangle N \langle / \text{sub} \rangle$ scalar dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 021-021.	5.4	56
29	125 GeV Higgs boson in the NMSSM in light of the LHC results and astrophysics constraints. <i>Physical Review D</i> , 2012, 86, .	4.7	48
30	LHC constraints on light neutralino dark matter in the MSSM. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 773-780.	4.1	45
31	Dark matter in a constrained next-to-minimal supersymmetric standard model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 009-009.	5.4	43
32	Mixed sneutrino dark matter in light of the 2011 XENON and LHC results. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 013-013.	5.4	36
33	SUSY Higgs at the LHC: effects of light charginos and neutralinos. <i>Nuclear Physics B</i> , 2000, 581, 3-33.	2.5	32
34	Isospin-violating dark matter from a double portal. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 020-020.	5.4	31
35	PAMELA and FERMI limits on the neutralino-chargino mass degeneracy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 028-028.	5.4	29
36	Model-independent bounds on squarks from monophoton searches. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	29

#	ARTICLE	IF	CITATIONS
37	Light stop in the MSSM after LHC Run 1. Journal of High Energy Physics, 2015, 2015, 1.	4.7	28
38	Cornering pseudoscalar-mediated dark matter with the LHC and cosmology. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
39	Light sneutrino dark matter at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	27
40	Precision measurements, dark matter direct detection and LHC Higgs searches in a constrained NMSSM. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 023-023.	5.4	24
41	Light neutralino dark matter in the MSSM and its implication for LHC searches for staus. Journal of High Energy Physics, 2012, 2012, 1.	4.7	24
42	Leptoquark manoeuvres in the dark: a simultaneous solution of the dark matter problem and the $\{R\}_{D^{\left(ast ight)\}}$ anomalies. Journal of High Energy Physics, 2022, 2022, 1.	4.7	24
43	Signatures of sneutrino dark matter in an extension of the CMSSM. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
44	The right-handed sneutrino as thermal dark matter in U(1) extensions of the MSSM. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 014-014.	5.4	22
45	Boosting Higgs boson decays into gamma and aZ in the NMSSM. Physical Review D, 2014, 89, .	4.7	21
46	Revisiting light neutralino scenarios in the MSSM. Physical Review D, 2011, 84, .	4.7	20
47	Invisible decay of the Higgs boson in the context of a thermal and nonthermal relic in MSSM. Physical Review D, 2017, 95, .	4.7	20
48	Implications of a high-mass diphoton resonance for heavy quark searches. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
49	Probing U(1) extensions of the MSSM at the LHC Run I and in dark matter searches. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
50	Dark matter abundance from the sequential freeze-in mechanism. Physical Review D, 2020, 102, .	4.7	18
51	Long-lived stau, sneutrino dark matter and right-slepton spectrum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
52	The Z5 model of two-component dark matter. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
53	Status of low mass LSP in SUSY. European Physical Journal: Special Topics, 2020, 229, 3159-3185.	2.6	17
54	One-loop renormalization of the NMSSM in SloopS. II. The Higgs sector. Physical Review D, 2017, 96, .	4.7	16

#	ARTICLE	IF	CITATIONS
55	Two dark matter candidates: The case of inert doublet and singlet scalars. Physical Review D, 2022, 105, .	4.7	16
56	Higgs boson in the MSSM in light of the LHC. Physical Review D, 2012, 85, .	4.7	14
57	One-loop renormalization of the NMSSM in SloopS: The neutralino-chargino and sfermion sectors. Physical Review D, 2016, 93, .	4.7	14
58	Limits on dark matter proton scattering from neutrino telescopes using micrOMEGAs. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 036-036.	5.4	12
59	Status and prospects of the nMSSM after LHC Run-1. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
60	Probing the flavor violating scalar top quark signal at the LHC. Physical Review D, 2014, 89, .	4.7	10
61	Current bounds and future prospects of light neutralino dark matter in the NMSSM. Physical Review D, 2021, 103, .	4.7	10
62	Right handed neutrinos, TeV scale BSM neutral Higgs boson, and FIMP dark matter in an EFT framework. Physical Review D, 2021, 104, .	4.7	9
63	Novel signature for long-lived particles at the LHC. Physical Review D, 2018, 98, .	4.7	8
64	Dark sector for $g\hat{1}/4$, $R<K$ and a 750 GeV diphoton resonance. Physical Review D, 2016, 94, .	4.7	6
65	Phenomenological analysis of multi-pseudoscalar mediated dark matter models. Journal of High Energy Physics, 2022, 2022, .	4.7	6
66	Extracting constraints from direct detection searches of supersymmetric dark matter in the light of null results from the LHC in the squark sector. Physical Review D, 2016, 93, .	4.7	3
67	The dark side of electroweak naturalness beyond the MSSM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	2