

# Geneviève Bâclanger

## List of Publications by Year in descending order

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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	Leptoquark manoeuvres in the dark: a simultaneous solution of the dark matter problem and the $R_{D^*}$ anomalies. Journal of High Energy Physics, 2022, 2022, 1.	4.7	24
2	Two dark matter candidates: The case of inert doublet and singlet scalars. Physical Review D, 2022, 105, .	4.7	16
3	Phenomenological analysis of multi-pseudoscalar mediated dark matter models. Journal of High Energy Physics, 2022, 2022, .	4.7	6
4	Current bounds and future prospects of light neutralino dark matter in the NMSSM. Physical Review D, 2021, 103, .	4.7	10
5	Recasting direct detection limits within micrOMEGAs and implication for non-standard dark matter scenarios. European Physical Journal C, 2021, 81, 1.	3.9	64
6	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
7	Dark matter abundance from the sequential freeze-in mechanism. Physical Review D, 2020, 102, .	4.7	18
8	The Z5 model of two-component dark matter. Journal of High Energy Physics, 2020, 2020, 1.	4.7	17
9	Status of low mass LSP in SUSY. European Physical Journal: Special Topics, 2020, 229, 3159-3185.	2.6	17
10	LHC-friendly minimal freeze-in models. Journal of High Energy Physics, 2019, 2019, 1.	4.7	64
11	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
12	Novel signature for long-lived particles at the LHC. Physical Review D, 2018, 98, .	4.7	8
13	Long-lived stau, sneutrino dark matter and right-slepton spectrum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
14	micrOMEGAs5.0 : Freeze-in. Computer Physics Communications, 2018, 231, 173-186.	7.5	327
15	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
16	One-loop renormalization of the NMSSM in SloopS. II. The Higgs sector. Physical Review D, 2017, 96, .	4.7	16
17	Cornering pseudoscalar-mediated dark matter with the LHC and cosmology. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
18	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

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19	One-loop renormalization of the NMSSM in SloopS: The neutralino-chargino and sfermion sectors. Physical Review D, 2016, 93, .	4.7	14
20	Dark sector for $g\hat{1}/4$ , $R<K$ and a 750 GeV diphoton resonance. Physical Review D, 2016, 94, .	4.7	6
21	Signatures of sneutrino dark matter in an extension of the CMSSM. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
22	Implications of a high-mass diphoton resonance for heavy quark searches. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
23	Status and prospects of the nMSSM after LHC Run-1. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
24	Dilepton constraints in the inert doublet model from Run 1 of the LHC. Physical Review D, 2015, 91, .	4.7	76
25	Dark matter relic from muon anomalies. Physical Review D, 2015, 92, .	4.7	92
26	A new look at the cosmic ray positron fraction. Astronomy and Astrophysics, 2015, 575, A67.	5.1	74
27	The dark side of electroweak naturalness beyond the MSSM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	2
28	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
29	Light stop in the MSSM after LHC Run 1. Journal of High Energy Physics, 2015, 2015, 1.	4.7	28
30	Limits on dark matter proton scattering from neutrino telescopes using micrOMEGAs. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 036-036.	5.4	12
31	micrOMEGAs4.1: Two dark matter candidates. Computer Physics Communications, 2015, 192, 322-329.	7.5	342
32	Probing the flavor violating scalar top quark signal at the LHC. Physical Review D, 2014, 89, .	4.7	10
33	Boosting Higgs boson decays into gamma and aZ in the NMSSM. Physical Review D, 2014, 89, .	4.7	21
34	micrOMEGAs_3: A program for calculating dark matter observables. Computer Physics Communications, 2014, 185, 960-985.	7.5	582
35	Isospin-violating dark matter from a double portal. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 020-020.	5.4	31
36	Minimal semi-annihilating $\hat{a}_{N<N}$ scalar dark matter. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 021-021.	5.4	56

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37	Higgs couplings at the end of 2012. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	67
38	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
39	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
40	Status of invisible Higgs decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 340-347.	4.1	120
41	Global fit to Higgs signal strengths and couplings and implications for extended Higgs sectors. <i>Physical Review D</i> , 2013, 88, .	4.7	155
42	Impact of semi-annihilations on dark matter phenomenology. An example of $Z$ - $N$ symmetric scalar dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 010-010.	5.4	88
43	Assisted freeze-out. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 038-038.	5.4	79
44	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
45	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
46	Model-independent bounds on squarks from monophoton searches. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	29
47	Light neutralino dark matter in the MSSM and its implication for LHC searches for staus. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	24
48	Higgs boson in the MSSM in light of the LHC. <i>Physical Review D</i> , 2012, 85, .	4.7	14
49	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
50	Revisiting light neutralino scenarios in the MSSM. <i>Physical Review D</i> , 2011, 84, .	4.7	20
51	Light sneutrino dark matter at the LHC. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	27
52	Indirect search for dark matter with micrOMEGAs_2.4. <i>Computer Physics Communications</i> , 2011, 182, 842-856.	7.5	280
53	The right-handed sneutrino as thermal dark matter in U(1) extensions of the MSSM. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 014-014.	5.4	22
54	Can neutralinos in the MSSM and NMSSM scenarios still be light?. <i>Physical Review D</i> , 2010, 82, .	4.7	59

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55	Precision measurements, dark matter direct detection and LHC Higgs searches in a constrained NMSSM. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 023-023.	5.4	24
56	SUSY Les Houches Accord 2. <i>Computer Physics Communications</i> , 2009, 180, 8-25.	7.5	295
57	Dark matter direct detection rate in a generic model with micrOMEGAs_2.2. <i>Computer Physics Communications</i> , 2009, 180, 747-767.	7.5	561
58	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
59	micrOMEGAsâ€™2.0: A program to calculate the relic density of dark matter in a generic model. <i>Computer Physics Communications</i> , 2007, 176, 367-382.	7.5	574
60	micrOMEGAs: Version 1.3. <i>Computer Physics Communications</i> , 2006, 174, 577-604.	7.5	332
61	Automatic calculations in high energy physics and GRACE at one-loop. <i>Physics Reports</i> , 2006, 430, 117-209.	25.6	96
62	Relic density of dark matter in the next-to-minimal supersymmetric standard model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 001-001.	5.4	167
63	Lower limit on the neutralino mass in the general MSSM. <i>Journal of High Energy Physics</i> , 2004, 2004, 012-012.	4.7	56
64	SUSY Les Houches Accord: Interfacing SUSY Spectrum Calculators, Decay Packages, and Event Generators. <i>Journal of High Energy Physics</i> , 2004, 2004, 036-036.	4.7	413
65	micrOMEGAs: A program for calculating the relic density in the MSSM. <i>Computer Physics Communications</i> , 2002, 149, 103-120.	7.5	493
66	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
67	SUSY Higgs at the LHC: effects of light charginos and neutralinos. <i>Nuclear Physics B</i> , 2000, 581, 3-33.	2.5	32