

# Partha Konar

## List of Publications by Year in descending order

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56  
papers

1,029  
citations

430754

18  
h-index

454834

30  
g-index

56  
all docs

56  
docs citations

56  
times ranked

4012  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark matter particle spectroscopy at the LHC: generalizing M T2 to asymmetric event topologies. Journal of High Energy Physics, 2010, 2010, 1.	1.6	89
2	Production of heavy neutrino in next-to-leading order QCD at the LHC and beyond. Journal of High Energy Physics, 2016, 2016, 1.	1.6	80
3	$\sqrt{s}_{\text{hat min}}$ : a global inclusive variable for determining the mass scale of new physics in events with missing energy at hadron colliders. Journal of High Energy Physics, 2009, 2009, 085-085.	1.6	64
4	Superpartner Mass Measurement Technique using 1D Orthogonal Decompositions of the Cambridge Transverse Mass Variable $\langle M \rangle_T$ Physical Review Letters, 2010, 105, 051802.	2.9	61
5	Copositive criteria and boundedness of the scalar potential. Physical Review D, 2014, 89, .	1.6	45
6	Shedding light on the dark sector with direct WIMP production. New Journal of Physics, 2009, 11, 105004.	1.2	38
7	Constraining a class of $B\hat{a}L$ extended models from vacuum stability and perturbativity. Physical Review D, 2014, 89, .	1.6	36
8	RECO level $\sqrt{s}_{\text{min}}$ and subsystem improved $\sqrt{s}_{\text{min}}$ : global inclusive variables for measuring the new physics mass scale in events at hadron colliders. Journal of High Energy Physics, 2011, 2011, 1.	1.6	35
9	Looking for a heavy higgsino LSP in collider and dark matter experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 114-126.	1.5	34
10	Jet substructure shedding light on heavy Majorana neutrinos at the LHC. Journal of High Energy Physics, 2018, 2018, 1.	1.6	34
11	Invisible Charginos and Neutralinos from Gauge Boson Fusion: A Way to Explore Anomaly Mediation. Physical Review Letters, 2002, 88, 181802.	2.9	33
12	Generation of neutrino mass from new physics at TeV scale and multilepton signatures at the LHC. Physical Review D, 2013, 88, .	1.6	26
13	Looking for a heavyW-ino lightest supersymmetric particle in collider and dark matter experiments. Physical Review D, 2007, 75, .	1.6	23
14	R-parity violation in split supersymmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 606, 384-390.	1.5	22
15	A revisit to a compressed supersymmetric spectrum with 125 GeV Higgs. Journal of High Energy Physics, 2016, 2016, 1.	1.6	21
16	Probing the inert doublet model using jet substructure with a multivariate analysis. Physical Review D, 2019, 100, .	1.6	21
17	Graviton production with 2 jets at the LHC in large extra dimensions. Journal of High Energy Physics, 2008, 2008, 019-019.	1.6	20
18	A dark clue to seesaw and leptogenesis in a pseudo-Dirac singlet doublet scenario with (non)standard cosmology. Journal of High Energy Physics, 2021, 2021, 1.	1.6	19

#	ARTICLE	IF	CITATIONS
19	How to Look for Supersymmetry under the LHC Lamppost. Physical Review Letters, 2010, 105, 221801.	2.9	18
20	Looking for minimal inverse seesaw scenarios at the LHC with jet substructure techniques. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 075002.	1.4	18
21	Signals of neutralinos and charginos from gauge boson fusion at the CERN Large Hadron Collider. Physical Review D, 2002, 65, .	1.6	17
22	Looking for hints of a reconstructible seesaw model at the Large Hadron Collider. Physical Review D, 2015, 91, .	1.6	17
23	Constraints on a seesaw model leading to quasidegenerate neutrinos and signatures at the LHC. Physical Review D, 2015, 91, .	1.6	17
24	Slepton production from gauge boson fusion. Physical Review D, 2003, 68, .	1.6	16
25	Constrained $S^{\min} \sqrt{\widehat{S}_{\min}}$ and reconstructing with semi-invisible production at hadron colliders. Journal of High Energy Physics, 2015, 2015, 1.	1.6	16
26	Mass reconstruction with $M_{22}$ under constraint in semi-invisible production at a hadron collider. Physical Review D, 2016, 93, .	1.6	16
27	Energy-weighted message passing: an infra-red and collinear safe graph neural network algorithm. Journal of High Energy Physics, 2022, 2022, 1.	1.6	15
28	Drell-Yan process as an avenue to test a noncommutative standard model at the Large Hadron Collider. Physical Review D, 2016, 93, .	1.6	14
29	Linking pseudo-Dirac dark matter to radiative neutrino masses in a singlet-doublet scenario. Physical Review D, 2020, 102, .	1.6	14
30	Reconstructing semi-invisible events in resonant tau pair production from Higgs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 211-215.	1.5	12
31	Search for a compressed supersymmetric spectrum with a light gravitino. Journal of High Energy Physics, 2017, 2017, 1.	1.6	12
32	Invisible Higgs search through vector boson fusion: a deep learning approach. European Physical Journal C, 2020, 80, 1.	1.4	12
33	Freeze-in dark matter through forbidden channel in $U(1)_{B-L}$ . Journal of Cosmology and Astroparticle Physics, 2022, 2022, 021.	1.9	12
34	Bhabha scattering with radiated gravitons at linear colliders. Physical Review D, 2003, 68, .	1.6	10
35	Event shape discrimination of supersymmetry from large extra dimensions at a linear collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 295-301.	1.5	8
36	Next-to-leading order QCD corrections to slepton pair production via vector boson fusion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 460-465.	1.5	8

#	ARTICLE	IF	CITATIONS
37	New Higgs signals from vector boson fusion in R-parity violating supersymmetry. Physical Review D, 2001, 63, .	1.6	7
38	Gauge boson fusion as a probe of inverted hierarchies in supersymmetry. Physical Review D, 2004, 70, .	1.6	7
39	Modelling the influence of progressive social awareness, lockdown and anthropogenic migration on the dynamics of an epidemic. International Journal of Dynamics and Control, 2021, 9, 797-806.	1.5	7
40	Boosted jet techniques for a supersymmetric scenario with gravitino LSP. Journal of High Energy Physics, 2020, 2020, 1.	1.6	7
41	Search for associated production of Higgs with Z boson in the noncommutative Standard Model at linear colliders. International Journal of Modern Physics A, 2015, 30, 1550159.	0.5	6
42	Demystifying the compressed top squark region with kinematic variables. Physical Review D, 2017, 96, .	1.6	6
43	Working group report: High energy and collider physics. Pramana - Journal of Physics, 2004, 63, 1331-1353.	0.9	5
44	Implications of unitarity and charge breaking minima in a left-right symmetric model. Physical Review D, 2015, 92, .	1.6	5
45	Inferring the covariant $\hat{\Gamma}$ -exact noncommutative coupling in the top quark pair production at linear colliders. Journal of High Energy Physics, 2019, 2019, 1.	1.6	5
46	Exploring CP phase in $\langle i \rangle \tilde{L}, \langle i \rangle$ -lepton Yukawa coupling in Higgs decays at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 105001.	1.4	4
47	Precise probing of the inert Higgs-doublet model at the LHC. Physical Review D, 2022, 105, .	1.6	4
48	Mass Determination and Event Reconstruction at Large Hadron Collider. Springer Proceedings in Physics, 2016, , 599-603.	0.1	3
49	Constraining slepton and chargino through compressed top squark search. Journal of High Energy Physics, 2018, 2018, 1.	1.6	3
50	Probing non-standard $bb\hat{A}h$ interaction at the LHC at $s=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136358.	1.5	3
51	Mass restricting variables in semi-invisible production at the LHC. Pramana - Journal of Physics, 2017, 89, 1.	0.9	2
52	Influence of QCD parton showers in deep learning invisible Higgs bosons through vector boson fusion. Physical Review D, 2022, 105, .	1.6	2
53	Higgsino LSP in colliders and dark matter experiments. AIP Conference Proceedings, 2005, , .	0.3	0
54	Towards Efficient Reconstruction of Semi-invisible Events from Higgs at the LHC. Springer Proceedings in Physics, 2018, , 547-550.	0.1	0

#	ARTICLE	IF	CITATIONS
55	CP Sensitive Observable Exploring Tau Lepton Pairs from Higgs at the LHC. Springer Proceedings in Physics, 2018, , 427-429.	0.1	0
56	Exploring Compressed Top Squark Region with Kinematic Variables. Springer Proceedings in Physics, 2018, , 539-542.	0.1	0