Bhupal Dev

List of Publications by Year
in descending order

126	6,842	36303 51	64796 79
papers	citations	h-index	g-index

133	133	133	6684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light scalars in neutron star mergers. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 006.	5.4	8
2	Leptonic scalars and collider signatures in a UV-complete model. Journal of High Energy Physics, 2022, 2022, 1.	4.7	9
3	Neutrinoless double beta decay via light neutralinos in R-parity violating supersymmetry. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
4	Searching for new physics from SMEFT and leptoquarks at the P2 experiment. Physical Review D, 2022, 105, .	4.7	2
5	Probing the minimal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msub><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 577 Td (stre electron-positron colliders via fermion pair-production channels. Physical Review D, 2022, 105, .	4.7	10
6	Probing neutrino mass models through resonances at neutrino telescopes. International Journal of Modern Physics A, 2022, 37, .	1.5	4
7	Hints of natural supersymmetry in flavor anomalies?. Physical Review D, 2022, 106, .	4.7	9
8	Perturbativity Constraints on $$U(1)_{B-L}$$ and Left-Right Models. Springer Proceedings in Physics, 2021, , 401-407.	0.2	0
9	Fast radio bursts from axion stars moving through pulsar magnetospheres. Physical Review D, 2021, 103, .	4.7	41
10	Unified framework for B-anomalies, muon g â˜’ 2 and neutrino masses. Journal of High Energy Physics, 2021, 2021, 1.	4.7	64
11	Stellar limits on light CP-even scalar. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 014.	5.4	9
12	Searching for Zâ€² bosons at the P2 experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
13	Light, long-lived B â˜’ L gauge and Higgs bosons at the DUNE near detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
14	Impact of improved energy resolution on DUNE sensitivity to neutrino non-standard interactions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	16
15	PASSAT at future neutrino experiments: Hybrid beam-dump-helioscope facilities to probe light axionlike particles. Physical Review D, 2021, 104, .	4.7	4
16	New interference effects from light gauge bosons in neutrino-electron scattering. Physical Review D, 2021, 104, .	4.7	7
17	Neutrinoless double beta decay versus other probes of heavy sterile neutrinos. Journal of High Energy Physics, 2020, 2020, 1.	4.7	109
18	Revisiting supernova constraints on a light CP-even scalar. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 003-003.	5.4	38

#	Article	IF	Citations
19	Unified explanation of flavor anomalies, radiative neutrino masses, and ANITA anomalous events in a vector leptoquark model. Physical Review D, 2020, 102, .	4.7	35
20	Addressing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">R</mml:mi></mml:mrow><mml:mrow><mml:mi>D</mml:mi><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mo>*</mml:mo><mml:mo mathvariant="bold") Tj ETQq0 0 rgBT /Overlock 10	4.7	56
21	Predictive Dirac and Majorana neutrino mass textures from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>6</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> grand unified theories. Physical Review D, 2020, 102, .	4.7	5
22	New mechanism for matter-antimatter asymmetry and connection with dark matter. Physical Review D, 2020, 102, .	4.7	14
23	Constraints on long-lived light scalars with flavor-changing couplings and the KOTO anomaly. Physical Review D, 2020, 101, .	4.7	39
24	Non-standard interactions in radiative neutrino mass models. Journal of High Energy Physics, 2020, 2020, 1.	4.7	90
25	Zee-Burst: A New Probe of Neutrino Nonstandard Interactions at IceCube. Physical Review Letters, 2020, 124, 041805.	7.8	15
26	MUonE sensitivity to new physics explanations of the muon anomalous magnetic moment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
27	Leptonic scalars at the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	18
28	Vacuum stability in inert higgs doublet model with right-handed neutrinos. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
29	Neutrino nonstandard interactions via light scalars in the Earth, Sun, supernovae, and the early Universe. Physical Review D, 2020, 101, .	4.7	42
30	Signatures of Supersymmetry in Neutrino Telescopes. , 2020, , 317-352.		1
31	TeV scale leptogenesis, inflaton dark matter, and neutrino mass in a scotogenic model. Physical Review D, 2019, 99, .	4.7	66
32	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math> -parity violating supersymmetric explanation of the anomalous events at ANITA. Physical Review D, 2019, 99, .	4.7	39
33	Gravitational waves from first-order phase transition in a simple axion-like particle model. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 006-006.	5.4	59
34	Doubly-charged Higgs boson at a future electron-proton collider. Physical Review D, 2019, 99, .	4.7	12
35	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
36	Perturbativity constraints on U(1)Bâ^'L and left-right models and implications for heavy gauge boson searches. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22

#	Article	IF	Citations
37	Vacuum structure of the left-right symmetric model. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
38	Model-independent astrophysical constraints on leptophilic Dark Matter in the framework of Tsallis statistics. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 032-032.	5.4	23
39	Long-lived TeV-scale right-handed neutrino production at the LHC in gauged U(1) model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 799, 135052.	4.1	51
40	CP violating effects in heavy neutrino oscillations: implications for colliders and leptogenesis. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
41	Neutrino non-standard interactions: A status report. SciPost Physics Proceedings, 2019, , .	0.4	56
42	Baryogenesis and Leptogenesis. Springer Proceedings in Physics, 2019, , 301-308.	0.2	0
43	Lepton flavor violation induced by a neutral scalar at future lepton colliders. , 2019, , .		0
44	Flavor effects in leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842001.	1.5	69
45	Probing leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842005.	1.5	69
46	Same sign versus opposite sign dileptons as a probe of low scale seesaw mechanisms. Physical Review D, 2018, 97, .	4.7	60
47	Resonant enhancement in leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842003.	1.5	67
48	A combined astrophysical and dark matter interpretation of the IceCube HESE and throughgoing muon events. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	40
49	Displaced vertex signatures of doubly charged scalars in the type-II seesaw and its left-right extensions. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
50	Probing TeV scale origin of neutrino mass at future lepton colliders via neutral and doubly-charged scalars. Physical Review D, 2018, 98, .	4.7	21
51	Doubly-charged scalars in the type II seesaw mechanism: Fundamental symmetry tests and high-energy searches. Physical Review D, 2018, 98, .	4.7	38
52	Leptogenesis constraints on B â˜’ L breaking Higgs boson in TeV scale seesaw models. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
53	A simple testable model of baryon number violation: Baryogenesis, dark matter, neutronâ€“antineutron oscillation and collider signals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 262-268.	4.1	32
54	Lepton Flavor Violation Induced by a Neutral Scalar at Future Lepton Colliders. Physical Review Letters, 2018, 120, 221804.	7.8	39

#	Article	IF	Citations
55	LHC-13 and Neutrinos. , 2018, , .		0
56	A White Paper on keV sterile neutrino Dark Matter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 025-025.	5.4	256
57	Heavy right-handed neutrino dark matter in leftâ€“right models. Modern Physics Letters A, 2017, 32, 1740007.	1.2	21
58	Gravitational waves as a new probe of Boseâ€“Einstein condensate Dark Matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 219-224.	4.1	47
59	Right-handed neutrino dark matter in left-right symmetric models. Journal of Physics: Conference Series, 2017, 873, 012029.	0.4	0
60	Naturalness, vacuum stability, and leptogenesis in the minimal seesaw model. Physical Review D, 2017, 95, .	4.7	66
61	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>R</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow><m stretchy="false">(</mml:mo><mml:mo>*</mml:mo><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (stretchy="false"> anomaly: A possible hint for natural supersymmetry with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml: Physic	4.7	131
62	Long lived light scalars as probe of low scale seesaw models. Nuclear Physics B, 2017, 923, 179-221.	2.5	59
63	Naturalness in testable type II seesaw scenarios. Nuclear Physics B, 2017, 921, 436-453.	2.5	35
64	Probing left-right seesaw models using beam polarization at an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo>â collider. Physical Review D, 2017, 95, .	4.7	14
65	Displaced photon signal from a possible light scalar in minimal left-right seesaw model. Physical Review D, 2017, 95, .	4.7	34
66	Constraining sterile neutrinos from precision Higgs data. Physical Review D, 2017, 95, .	4.7	52
67	Natural Alignment in the Two Higgs Doublet Model. Journal of Physics: Conference Series, 2017, 873, 012008.	0.4	13
68	Testing Neutrino Mass Models at the LHC and beyond. , 2017, , .		0
69	Naturally stable right-handed neutrino dark matter. Journal of High Energy Physics, 2016, 2016, 1.	4.7	36
70	Heavy right-handed neutrino dark matter and PeV neutrinos at IceCube. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 034-034.	5.4	68
71	R-parity violating supersymmetry at IceCube. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 116-123.	4.1	30
72	Lepton flavor violating Zâ€² explanation of the muon anomalous magnetic moment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 389-398.	4.1	121

#	Article	IF	Citations
73	Implications of the diboson excess for neutrinoless double beta decay and lepton flavor violation in TeV scale left-right symmetric model. Physical Review D, 2016, 93, .	4.7	24
74	750ÂGeV diphoton excess explained by a resonant sneutrino inR-parity violating supersymmetry. Physical Review D, 2016, 93, .	4.7	27
75	Asymmetric dark matter in the Sun and diphoton excess at the LHC. Physical Review D, 2016, 94, .	4.7	33
76	ATLAS diboson excess could be anR-parity violating dismuon excess. Physical Review D, 2016, 93, .	4.7	11
77	Probing the scale of new physics by Advanced LIGO/VIRGO. Physical Review D, 2016, 93, .	4.7	89
78	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201.	20.1	496
79	Probing the Higgs sector of the minimal Left-Right symmetric model at future hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	77
80	The scalar triplet contribution to lepton flavour violation and neutrinoless double beta decay in Left-Right Symmetric Model. Journal of High Energy Physics, 2016, 2016, 1-28.	4.7	24
81	Disambiguating seesaw models using invariant mass variables at hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	50
82	Quark seesaw, vectorlike fermions and diphoton excess. Journal of High Energy Physics, 2016, 2016, 1.	4.7	72
83	TeV-Scale Leptogenesis. Springer Proceedings in Physics, 2016, , 245-253.	0.2	6
84	TeV-scale left-right symmetry and large mixing effects in neutrinoless double beta decay. Physical Review D, 2015, 91, .	4.7	66
85	TeV scale model for baryon and lepton number violation and resonant baryogenesis. Physical Review D, 2015, 92, .	4.7	46
86	Two-component flux explanation for the high energy neutrino events at IceCube. Physical Review D, 2015, 92, .	4.7	54
87	Prospects of heavy neutrino searches at future lepton colliders. Physical Review D, 2015, 92, .	4.7	76
88	Unified Explanation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>e</mml:mi><mml:mi>e</mml:mi><mml:mi>j</mml:mi><mml:mi>j</mml:mi></mml:mrow></mml:math>Diboson, and Dijet Resonances at the LHC. Physical Review Letters, 2015, 115, 181803.	7.8	105
89	TeV Scale Lepton Number Violation and Baryogenesis. Journal of Physics: Conference Series, 2015, 631, 012007.	0.4	29
90	Natural Standard Model Alignment in the Two Higgs Doublet Model. Journal of Physics: Conference Series, 2015, 631, 012030.	0.4	8

#	Article	IF	Citations
91	Flavour effects in Resonant Leptogenesis from semi-classical and Kadanoff-Baym approaches. Journal of Physics: Conference Series, 2015, 631, 012087.	0.4	7
92	Kadanoffâ€“Baym approach to flavour mixing and oscillations in resonant leptogenesis. Nuclear Physics B, 2015, 891, 128-158.	2.5	69
93	Neutrinos and collider physics. New Journal of Physics, 2015, 17, 075019.	2.9	381
94	Constraining non-thermal and thermal properties of Dark Matter. Frontiers in Physics, 2014, 2, .	2.1	31
95	Direct bounds on electroweak scale pseudo-Dirac neutrinos from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>8</mml:mn><mml:mtext>Â</mml:mtext>Â</mml:mn> LHC data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 364-370.	4.1	138
96	Neutrino mass and dark matter in light of recent AMS-02 results. Physical Review D, 2014, 89, .	4.7	44
97	Leptogenesis constraints on the mass of right-handed gauge bosons. Physical Review D, 2014, 90, .	4.7	34
98	New Production Mechanism for Heavy Neutrinos at the LHC. Physical Review Letters, 2014, 112, .	7.8	123
99	Standard model explanation of the ultrahigh energy neutrino events at IceCube. Physical Review D, 2014, 89, .	4.7	48
100	Maximally symmetric two Higgs doublet model with natural standard model alignment. Journal of High Energy Physics, 2014, 2014, 1.	4.7	164
101	Implications of purely classical gravity for inflationary tensor modes. Modern Physics Letters A, 2014, 29, 1450163.	1.2	37
102	Flavour covariant transport equations: An application to resonant leptogenesis. Nuclear Physics B, 2014, 886, 569-664.	2.5	143
103	Maximally symmetric two Higgs doublet model with natural standard model alignment. , 2014, 2014, 1.		1
104	Naturalness of light neutralino dark matter in pMSSM after LHC, XENON100 and Planck data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
105	125 GeV Higgs boson and the type-II seesaw model. Journal of High Energy Physics, 2013, 2013, 1.	4.7	66
106	Constraining neutrino mass from neutrinoless double beta decay. Physical Review D, 2013, 88, .	4.7	72
107	Invisible Higgs decay in a supersymmetric inverse seesaw model with light sneutrino dark matter. Journal of High Energy Physics, 2013, 2013, 1.	4.7	35
108	Erratum 2: Phenomenology of light sneutrino dark matter in cMSSM/mSUGRA with inverse seesaw. Journal of High Energy Physics, 2013, 2013, 1.	4.7	0

#	Article	IF	Citations
109	Expectations for neutron-antineutron oscillation time from TeV scale baryogenesis. , 2013, , .		2
110	Probing heavy-light neutrino mixing in left-right seesaw models at the LHC. Physical Review D, 2013, 88, .	4.7	72
111	Multiple dark matter scenarios from ubiquitous stringy throats. Physical Review D, 2013, 87, .	4.7	47
112	Post-sphaleron baryogenesis and an upper limit on the neutron-antineutron oscillation time. Physical Review D, 2013, 87, .	4.7	54
113	Light and superlight sterile neutrinos in the minimal radiative inverse seesaw model. Physical Review D, 2013, 87, .	4.7	65
114	Natural TeV-scale left-right seesaw mechanism for neutrinos and experimental tests. Physical Review D, 2013, 88, .	4.7	95
115	display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>and proton lifetime in a minimal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo mathvariant="bold") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 437	4.7	89
116	mathvariant="bold">Â—</mml:mo><mml:msub><mml:mi>S</mml:m Minimal radiative neutrino mass mechanism for inverse seesaw models. Physical Review D, 2012, 86, .	4.7	128
117	Sneutrino Dark Matter in Gauged Inverse Seesaw Models for Neutrinos. Physical Review Letters, 2012, 108, 081806.	7.8	65
118	Multilepton collider signatures of heavy Dirac and Majorana neutrinos. Physical Review D, 2012, 85, .	4.7	56
119	Bounds on TeV seesaw models from LHC Higgs data. Physical Review D, 2012, 86, .	4.7	58
120	Phenomenology of light sneutrino dark matter in cMSSM/mSUGRA with inverse seesaw. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
121	Neutrino masses in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (stretchy="false"	4.7	41
122	xmlns:mml="http://www.w3.org/1998/Math/MathML" "display="inline"><mml:mi>S</mml:mi></mml:mn></mml:msub></mml:math>. Leptogenesis with TeV-scale inverse seesaw model in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 207 Td (stretchy="false">)</mml	4.7	55
123	TeV scale inverse seesaw model in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 177 Td (stretchy="false"	4.7	41
124	Electroweak symmetry breaking and proton decay in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td (stretchy="false">)</mml	4.7	26
125	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>W</mml:mi> Neutrino mass hierarchy, neutron-antineutron oscillation from baryogenesis. Physical Review D, 2009, 79, .	4.7	40
126	Determining the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>Properties of the Higgs Boson. Physical Review Letters, 2008, 100, 051801.	7.8	73