

# R Sekhar Chivukula

## List of Publications by Year in descending order

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146  
papers

38,380  
citations

94381

37  
h-index

11928

134  
g-index

150  
all docs

150  
docs citations

150  
times ranked

16627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Particle Physics. Chinese Physics C, 2014, 38, 090001.	1.5	5,997
2	Review of Particle Physics. Physical Review D, 2012, 86, .	1.6	5,054
3	Review of Particle Physics. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 075021.	1.4	4,745
4	Review of Particle Physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 592, 1-5.	1.5	4,599
5	Review of Particle Physics. Journal of Physics G: Nuclear and Particle Physics, 2006, 33, 1-1232.	1.4	3,613
6	Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	3,177
7	Review of Particle Properties. Physical Review D, 2002, 66, .	1.6	2,845
8	Electroweak fermion number violation and the production of stable particles in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 387-391.	1.5	273
9	Simplified models for LHC new physics searches. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 105005.	1.4	273
10	Top quark seesaw theory of electroweak symmetry breaking. Physical Review D, 1999, 59, .	1.6	217
11	Unitarity of compactified five-dimensional Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 175-182.	1.5	159
12	Polychromatic penguins don't fly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 171, 453-458.	1.5	117
13	A heavy top quark and the vertex in non-commuting extended technicolor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 331, 383-389.	1.5	113
14	Unitarity of the higher-dimensional standard model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 562, 109-117.	1.5	113
15	Technicolor cosmology. Nuclear Physics B, 1990, 329, 445-463.	0.9	111
16	New strong interactions at the Tevatron?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 380, 92-98.	1.5	104
17	Nonoblique effects in the $Zb\bar{b}\gamma$ vertex from extended technicolor dynamics. Physical Review Letters, 1992, 69, 575-577.	2.9	96
18	A Three site Higgsless model. Physical Review D, 2006, 74, .	1.6	93

#	ARTICLE	IF	CITATIONS
19	Unitarity of deconstructed five-dimensional Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 532, 121-128.	1.5	87
20	Structure of corrections to electroweak interactions in Higgsless models. Physical Review D, 2004, 70, .	1.6	79
21	Aspects of dynamical electroweak symmetry breaking. Nuclear Physics B, 1990, 343, 554-570.	0.9	77
22	Limits on a light Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 207, 86-90.	1.5	72
23	CERN LHC signatures of new gauge bosons in the minimal Higgsless model. Physical Review D, 2008, 78, .	1.6	65
24	Limits on noncommuting extended technicolor. Physical Review D, 1996, 53, 5258-5267.	1.6	63
25	Ideal fermion delocalization in Higgsless models. Physical Review D, 2005, 72, .	1.6	62
26	Axigluons cannot explain the observed top quark forward-backward asymmetry. Physical Review D, 2010, 82, .	1.6	62
27	Electroweak limits on nonuniversal $Z^2$ bosons. Physical Review D, 2002, 66, .	1.6	58
28	Isospin breaking and fine-tuning in top-color assisted technicolor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 289-294.	1.5	55
29	Universal non-oblique corrections in Higgsless models and beyond. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 603, 210-218.	1.5	54
30	Deconstructed Higgsless models with one-site delocalization. Physical Review D, 2005, 71, .	1.6	49
31	Multi-jet physics at hadron colliders. Nuclear Physics B, 1991, 363, 83-96.	0.9	48
32	Phenomenology of a nonstandard Higgs boson in $WW$ scattering. Physical Review D, 1994, 50, 3218-3234.	1.6	46
33	Electroweak corrections and unitarity in linear moose models. Physical Review D, 2005, 71, .	1.6	44
34	Bounds on halo-particle interactions from interstellar calorimetry. Physical Review Letters, 1990, 65, 957-959.	2.9	43
35	A composite technicolor standard model of quarks. Nuclear Physics B, 1987, 292, 93-108.	0.9	40
36	Doubly charged pseudo-goldstone bosons and dynamical $SU(2) \times U(1)$ breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 182, 181-186.	1.5	37

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37	Walking technicolor and the vertex. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 157-162.	1.5	36
38	Analyticity, crossing symmetry, and the limits of chiral perturbation theory. Physical Review D, 1993, 47, 2930-2939.	1.6	35
39	Six-jet signals of highly colored fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 257, 403-408.	1.5	32
40	Weak-isospin violation in "walking" technicolor. Physical Review Letters, 1988, 61, 2657-2660.	2.9	30
41	Zero temperature chiral phase transition in SU(N) gauge theories. Physical Review D, 1997, 55, 5238-5240.	1.6	30
42	Hadron collider production of massive color-octet vector bosons at next-to-leading order. Physical Review D, 2013, 87, .	1.6	29
43	Higgs decay into goldstone bosons. Annals of Physics, 1989, 192, 93-103.	1.0	28
44	Precision electroweak constraints on top-color assisted technicolor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 385, 209-217.	1.5	28
45	Critical constraints on chiral hierarchies. Physical Review Letters, 1993, 70, 1587-1590.	2.9	27
46	Structure of electroweak corrections due to extended gauge symmetries. Physical Review D, 2004, 69, .	1.6	27
47	Electroweak corrections in technicolor reconsidered. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 292, 435-441.	1.5	26
48	Flavor physics and fine-tuning in theory space. Physical Review D, 2002, 66, .	1.6	26
49	One-loop corrections to the S and T parameters in a three site Higgsless model. Physical Review D, 2007, 75, .	1.6	26
50	Global symmetries and renormalizability of Lee-Wick theories. Physical Review D, 2010, 82, .	1.6	26
51	Production of massive color-octet vector bosons at next-to-leading order. Physical Review D, 2012, 85, .	1.6	26
52	Hiding the electroweak symmetry breaking sector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 267, 233-239.	1.5	25
53	Limits on the unified standard model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 346, 284-290.	1.5	25
54	Limits on a Composite Higgs Boson. Physical Review Letters, 2000, 85, 511-514.	2.9	25

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55	Multigauge-boson vertices and chiral Lagrangian parameters in Higgsless models with ideal fermion delocalization. Physical Review D, 2005, 72, .	1.6	24
56	Distinguishing dijet resonances at the LHC. Physical Review D, 2015, 91, .	1.6	23
57	Couplings of a light Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 222, 258-262.	1.5	22
58	Low-energy effective theory, unitarity, and nondecoupling behavior in a model with heavy Higgs-triplet fields. Physical Review D, 2008, 77, .	1.6	22
59	Triviality and the precision bound on the Higgs mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 244-248.	1.5	21
60	Three site Higgsless model at one loop. Physical Review D, 2007, 75, .	1.6	21
61	Constraints on the scalar sector of the renormalizable coloron model. Physical Review D, 2013, 88, .	1.6	21
62	Massive spin-2 scattering amplitudes in extra-dimensional theories. Physical Review D, 2020, 101, .	1.6	21
63	Triviality bounds in two-doublet models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 304, 152-158.	1.5	20
64	Ideal fermion delocalization in five dimensional gauge theories. Physical Review D, 2005, 72, .	1.6	20
65	Top triangle moose: Combining Higgsless and topcolor mechanisms for mass generation. Physical Review D, 2009, 80, .	1.6	20
66	General sum rules for WW scattering in Higgsless models: Equivalence theorem and deconstruction identities. Physical Review D, 2008, 78, .	1.6	18
67	Hypercharge-universal topcolor. Physical Review D, 2008, 77, .	1.6	17
68	Top-Higgs and top-pion phenomenology in the top triangle moose model. Physical Review D, 2011, 83, .	1.6	17
69	A flavorful top-coloron model. Physical Review D, 2013, 87, .	1.6	16
70	Phenomenology of a non-standard Higgs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 309, 371-377.	1.5	15
71	Two-gluon coupling and collider phenomenology of color-octet technirho mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 239-242.	1.5	15
72	Technipion limits from LHC Higgs searches. Physical Review D, 2011, 84, .	1.6	15

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73	$R < K < Z < \epsilon^2$ anomalies and simplified limits on $Z < \epsilon^2$ models at the LHC. Physical Review D, 2017, 96, .	1.6	15
74	Fourth generation quark masses and KM phenomenology from a fritzsch mass matrix. Nuclear Physics B, 1986, 271, 509-530.	0.9	14
75	A comment on the strong interactions of color-neutral technibaryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 380-382.	1.5	14
76	Scattering amplitudes of massive spin-2 Kaluza-Klein states grow only as $O(s < Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 607 Td$ (stretchy="false")	1.6	14
77	Phenomenology of composite technicolor standard models. Physical Review D, 1987, 36, 2102-2108.	1.6	12
78	Observing the techniomega at the Superconducting Super Collider. Physical Review D, 1990, 41, 2795-2799.	1.6	12
79	$Z\uparrow'bb\hat{A}^-$ and chiral currents in Higgsless models. Physical Review D, 2009, 79, .	1.6	12
80	Custodial isospin violation in the Lee-Wick standard model. Physical Review D, 2010, 81, .	1.6	12
81	Condensate enhancement and D-meson mixing in technicolor theories. Physical Review D, 2010, 82, .	1.6	12
82	Discovering new gauge bosons of electroweak symmetry breaking at LHC-8. Physical Review D, 2012, 86, .	1.6	12
83	Same-sign dileptons from colored scalars in the flavorful top-coloron model. Physical Review D, 2013, 88, .	1.6	12
84	Distinguishing color-octet and color-singlet resonances at the Large Hadron Collider. Physical Review D, 2013, 88, .	1.6	12
85	Radiative decays of vector mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 168, 127-130.	1.5	11
86	Generalized Weinberg Sum Rules in Deconstructed QCD. Journal of High Energy Physics, 2004, 2004, 004-004.	1.6	11
87	The meaning of $\hat{\epsilon}Higgs\hat{\epsilon}, \hat{I}, \hat{A}^{\prime}$ and $\hat{I}^{\prime}$ at the Fermilab Tevatron and the CERN LHC. Physical Review D, 2005, 72, 6		11
88	Sum rules for massive spin-2 Kaluza-Klein elastic scattering amplitudes. Physical Review D, 2019, 100, .	1.6	11
89	Large-Nand vacuum alignment in top-color models. Physical Review D, 1998, 58, .	1.6	10
90	Deconstruction and elastic scattering in Higgsless models. Physical Review D, 2007, 75, .	1.6	10

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91	LHC limits on the top-Higgs in models with strong top-quark dynamics. Physical Review D, 2011, 84, .	1.6	10
92	Color discriminant variable and scalar diquarks at the LHC. Physical Review D, 2015, 92, .	1.6	10
93	Custodial symmetry and the triviality bound on the Higgs mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 788-792.	1.5	9
94	Flavor physics and the triviality bound on the Higgs mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 74-80.	1.5	9
95	Effective field theory of vacuum tilting. Physical Review D, 1998, 58, .	1.6	9
96	Unitarity and bounds on the scale of fermion mass generation. Physical Review D, 2007, 75, .	1.6	9
97	Limits of custodial symmetry. Physical Review D, 2009, 80, .	1.6	9
98	Discovering strong top dynamics at the LHC. Physical Review D, 2012, 86, .	1.6	9
99	LHC constraints on a Higgs boson partner from an extended color sector. Physical Review D, 2014, 90, .	1.6	9
100	Vacuum stability and triviality analyses of the renormalizable coloron model. Physical Review D, 2015, 92, .	1.6	9
101	Distinguishing flavor nonuniversal colorons from $\alpha_s^2$ at the LHC. Physical Review D, 2015, 91, .	1.6	9
102	Vectorlike top quark production via a chromomagnetic moment at the LHC. Physical Review D, 2021, 104, .	1.6	9
103	Colored pseudo Goldstone bosons and gauge boson pairs. Physical Review Letters, 1992, 68, 2883-2886.	2.9	8
104	Scalar resonances in Goldstone boson scattering. Nuclear Physics B, 1992, 372, 44-60.	0.9	8
105	The phenomenology of a hidden symmetry breaking sector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 293, 400-404.	1.5	7
106	Bounds on flavor gauge bosons from precision electroweak data. Physical Review D, 2000, 61, .	1.6	7
107	The Higgs boson width is adjustable. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 62-69.	1.5	6
108	Saturating the bound on the scale of fermion mass generation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 389-392.	1.5	6

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109	WLWLscattering in Higgsless models: Identifying better effective theories. Physical Review D, 2009, 80, .	1.6	6
110	Probing color octet couplings at the Large Hadron Collider. Physical Review D, 2012, 86, .	1.6	6
111	Spin-2 Kaluza-Klein mode scattering in models with a massive radion. Physical Review D, 2021, 103, .	1.6	6
112	Could composite interactions be detected at $\hat{s} = MZ$ ?. Nuclear Physics B, 1989, 326, 1-14.	0.9	5
113	General constraints on light resonances in a strongly coupled symmetry-breaking sector. Physical Review D, 1998, 57, 2760-2770.	1.6	5
114	Four-site Higgsless model with wave function mixing. Physical Review D, 2008, 78, .	1.6	5
115	Patterns of custodial isospin violation from a composite top. Physical Review D, 2011, 84, .	1.6	5
116	Flavor structure of the three-site Higgsless model. Physical Review D, 2012, 85, .	1.6	5
117	Broadening the reach of simplified limits on resonances at the LHC. Physical Review D, 2017, 96, .	1.6	5
118	Characterizing boosted dijet resonances with energy correlation functions. Journal of High Energy Physics, 2018, 2018, 1.	1.6	5
119	Probing lepton structure at the SSC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 429-435.	1.5	4
120	Flavor gauge bosons at the Fermilab Tevatron. Physical Review D, 2000, 62, .	1.6	4
121	Simplified limits on resonances at the LHC. Physical Review D, 2016, 94, .	1.6	4
122	Colorphilic spin-2 resonances in the LHC dijet channel. Physica Scripta, 2018, 93, 115301.	1.2	4
123	TECHNICOLOR AND COMPOSITENESS. , 2001, , .		4
124	Ultraheavy quarks and mixing. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 159, 76-80.	1.5	3
125	Probing neutrino structure at the SSC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 436-440.	1.5	3
126	Diphoton resonances in the renormalizable coloron model. Physical Review D, 2016, 94, .	1.6	3



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127	How high-energy physics plans its future. Nature Reviews Physics, 2022, 4, 565-567.	11.9	3
128	Isospin Breaking and the Top Quark Mass in Models of Dynamical Electroweak Symmetry Breaking. Progress of Theoretical Physics Supplement, 1996, 123, 105-112.	0.2	1
129	THE LIMITS OF CUSTODIAL SYMMETRY. International Journal of Modern Physics A, 2010, 25, 5082-5096.	0.5	1
130	Coloron Models and LHC Phenomenology. , 2014, , .		1
131	Narrow resonances revisited: Simplifying multidimensional constraints. Physical Review D, 2021, 103, .	1.6	1
132	STRONGLY COUPLED ELECTROWEAK SYMMETRY BREAKING: IMPLICATIONS OF MODELS. Advanced Series on Directions in High Energy Physics, 1997, , 352-382.	0.7	1
133	Colored Pseudo Goldstone Bosons and Gauge Boson Pairs. Physical Review Letters, 1992, 69, 1291-1291.	2.9	0
134	Beyond the standard model. AIP Conference Proceedings, 1994, , .	0.3	0
135	Strong WLWL scattering. AIP Conference Proceedings, 1995, , .	0.3	0
136	Electroweak Symmetry Breaking: With Dynamics. AIP Conference Proceedings, 2005, , .	0.3	0
137	Vector Bosons Signals of Electroweak Symmetry Breaking. , 2014, , .		0
138	Direct search implications for a custodially-embedded composite top. Physical Review D, 2016, 94, .	1.6	0
139	Simplified Limits on New LHC Resonances. EPJ Web of Conferences, 2017, 137, 01019.	0.1	0
140	PRECISION ELECTROWEAK CONSTRAINTS ON HIDDEN LOCAL SYMMETRIES. , 2003, , .		0
141	DYNAMICAL ELECTROWEAK SYMMETRY BREAKING. , 2006, , .		0
142	One-Loop Corrections to the S and T Parameters in a Three Site Higgsless Model. , 2008, , .		0
143	WLWL Scattering in Higgsless Models: Identifying Better Effective Theories. , 2011, , .		0
144	The Limits of Custodial Symmetry. , 2011, , .		0

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145	Technicolor in the LHC Era. , 2013, , .		0
146	The Top Quark: Past, Present, and Future. , 2020, , .		0