Jacky Kumar

List of Publications by Year
in descending order

30 papers	900 citations	623188 14 h-index	500791 28 g-index
30 all docs	30 docs citations	30 times ranked	3140 citing authors

#	Article	IF	Citations
1	New physics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>b</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>s</mml:mi><mml:msup><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">+</mml:mi></mml:mrow></mml:msup><mml:msup><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">−</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math> after the measurement of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub>. Physical Review D, 2017, 96, .	1.6	110
2	: a Python package for the running and matching of Wilson coefficients above and below the electroweak scale. European Physical Journal C, 2018, 78, 1.	1.4	109
3	WCxf: An exchange format for Wilson coefficients beyond the Standard Model. Computer Physics Communications, 2018, 232, 71-83.	3.0	102
4	A global likelihood for precision constraints and flavour anomalies. European Physical Journal C, 2019, 79, 1.	1.4	95
5	Combined explanations of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>b</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>s</mml:mi><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>Î¼</mml:mi><mml:mo>−</mml:mo></mml:msup></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>b</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>c</mml:mi><mml:msup><mml:mi>Ï„</mml:mi><mml:mo>â¯</mml:mo></mml:msup><mml:mi	1.6	79
6	The B anomalies and new physics in bâ€¯â†’â€¯se+eâ¯. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134858.	1.5	75
7	New physics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>b</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>s</mml:mi><mml:msup><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">+</mml:mi></mml:mrow></mml:msup><mml:msup><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">−</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:math> : Distinguishing models through <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml: Physical Review D, 2017, 96, .	1.6	57
8	New physics solutions for RD and RDâ—. Journal of High Energy Physics, 2018, 2018, 1.	1.6	52
9	New light mediators for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>R</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>R</mml:mi><mml:msup><mml:mi>K</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:msub></mml:math>	1.6	29
10	Resolving the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>g</mml:mi><mml:mo>â’</mml:mo><mml:mn>2</mml:mn><mml:msub><mml:mrow><mml:mo	1.6	24
11	and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math> anomalies with leptoquarks and a dark Higgs boson. New physics in bâ†’se+eâ¯ ?. Physical Review D, 2019, 99, .	1.6	19
12	Light Higgs bosons in NMSSM at the LHC. International Journal of Modern Physics A, 2016, 31, 1650069.	0.5	18
13	Diphoton signal of a light pseudoscalar in the NMSSM at the LHC. Physical Review D, 2017, 95, .	1.6	18
14	Another SMEFT story: Zâ€² facing new results on Îµâ€²/Îµ, â¯†MK and K â†’ $$ pi u overline{u} $$. Journal of High Energy Physics, 2020, 2020, 1.	1.6	15
15	Lepton flavor non-universality in the B-sector: a global analyses of various new physics models. European Physical Journal C, 2019, 79, 1.	1.4	11
16	Anomalous dimensions from gauge couplings in SMEFT with right-handed neutrinos. Journal of High Energy Physics, 2021, 2021, 1.	1.6	11
17	SMEFT atlas of â¯†F = 2 transitions. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
18	General non-leptonic â¯†F = 1 WET at the NLO in QCD. Journal of High Energy Physics, 2021, 2021, .	1.6	10

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19	Anomalous dimensions from Yukawa couplings in SMNEFT: four-fermion operators. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
20	CP violation in rare lepton-number-violating W decays at the LHC. Journal of High Energy Physics, 2021, 2021, 1.	1.6	7
21	Flavour violating effects of Yukawa running in SMEFT. Journal of High Energy Physics, 2020, 2020, 1.	1.6	7
22	BSM master formula for Îµâ€²/Îµ in the WET basis at NLO in QCD. Journal of High Energy Physics, 2021, 2021, 1.	1.6	7
23	The role of non-universal Z couplings in explaining the V anomaly. Nuclear Physics B, 2021, 971, 115538.	0.9	6
24	Distinguishing between MSSM and NMSSM through âˆ†F = 2 processes. Journal of High Energy Physics, 2016, 2016, 1.	1.6	5
25	Renormalization group improved implications of semileptonic operators in SMEFT. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
26	Detection prospects of light pseudoscalar Higgs boson at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	1.6	4
27	Beyond the standard model effective field theory with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>b</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mi>c</mml:mi><mml:msup><mml:mi>Ï„</mml:mi><mml:mo>â€²</mml:mo></mml:msup><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover></mml:math>. Physical Review D, 2022, 105, .	1.6	3
28	Higgs Sector of NMSSM in the Light of Higgs Discovery. Springer Proceedings in Physics, 2016, , 619-625.	0.1	1
29	signal of NMSSM at the LHC. Pramana - Journal of Physics, 2017, 89, 1.	0.9	0
30	CP violation in same-sign dilepton production at the LHC. Physical Review D, 2020, 102, .	1.6	0