

João P Silva

List of Publications by Year in descending order

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86
papers

4,075
citations

159585

30
h-index

118850

62
g-index

88
all docs

88
docs citations

88
times ranked

6192
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory and phenomenology of two-Higgs-doublet models. <i>Physics Reports</i> , 2012, 516, 1-102.	25.6	1,725
2	Jarlskog-like invariants for theories with scalars and fermions. <i>Physical Review D</i> , 1995, 51, 3870-3875.	4.7	189
3	Oblique corrections from vectorlike singlet and doublet quarks. <i>Physical Review D</i> , 1993, 47, 2046-2057.	4.7	158
4	Fundamental CP-violating quantities in an $SU(2)_C \times U(1)$ model with many Higgs doublets. <i>Physical Review D</i> , 1994, 50, 4619-4624.	4.7	156
5	Determining the penguin effect on CP violation in $B \rightarrow \pi^0 \pi^+ \pi^-$. <i>Physical Review D</i> , 1994, 49, R1151-R1155.	4.7	67
6	Renormalization-group constraints on Yukawa alignment in multi-Higgs-doublet models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 688, 341-344.	4.1	66
7	Detecting new physics from CP-violating phase measurements in B decays. <i>Physical Review D</i> , 1997, 55, 5331-5333.	4.7	60
8	Generalized C and P symmetries and special regions of parameter space in the two-Higgs-doublet model. <i>Physical Review D</i> , 2009, 79, .	4.7	60
9	$h \rightarrow Z \gamma$ in the complex two Higgs doublet model. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	56
10	THE GEOMETRIC PICTURE OF GENERALIZED-CP AND HIGGS-FAMILY TRANSFORMATIONS IN THE TWO-HIGGS-DOUBLET MODEL. <i>International Journal of Modern Physics A</i> , 2011, 26, 769-808.	1.5	50
11	Bounds on the mixing of the down-type quarks with vectorlike singlet quarks. <i>Physical Review D</i> , 1993, 47, 1117-1126.	4.7	48
12	Use of early data on $B \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , 2000, 62, .	4.7	46
13	Impact of $D^0 \text{--} \bar{D}^0$ mixing on the experimental determination of β^3 . <i>Physical Review D</i> , 2000, 61, .	4.7	46
14	The C2HDM revisited. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	42
15	Tree-level metastability bounds for the most general two Higgs doublet model. <i>Physical Review D</i> , 2015, 92, .	4.7	40
16	Stability of the normal vacuum in multi-Higgs-doublet models. <i>Physical Review D</i> , 2006, 74, .	4.7	39
17	Probing the scalar-pseudoscalar mixing in the 125 GeV Higgs particle with current data. <i>Physical Review D</i> , 2012, 86, .	4.7	39
18	Implications of the LHC two-photon signal for two-Higgs-doublet models. <i>Physical Review D</i> , 2012, 85, .	4.7	39

#	ARTICLE	IF	CITATIONS
19	Multi-Higgs doublet models: physical parametrization, sum rules and unitarity bounds. Journal of High Energy Physics, 2017, 2017, 1.	4.7	37
20	Could the LHC two-photon signal correspond to the heavier scalar in two-Higgs-doublet models?. Physical Review D, 2012, 85, .	4.7	36
21	A RESOURCE FOR SIGNS AND FEYNMAN DIAGRAMS OF THE STANDARD MODEL. International Journal of Modern Physics A, 2012, 27, 1230025.	1.5	36
22	Mass-degenerate Higgs bosons at 125 GeV in the two-Higgs-doublet model. Physical Review D, 2013, 87, .	4.7	35
23	Neutrino masses and mixing in models with three Higgs doublets. Physical Review D, 2013, 88, .	4.7	35
24	Models with three Higgs doublets in the triplet representations of A_4 or S_4 . Physical Review D, 2013, 87, .	4.7	35
25	Higgs EFT for 2HDM and beyond. European Physical Journal C, 2017, 77, 176.	3.9	34
26	Discrete and continuous symmetries in multi-Higgs-doublet models. Physical Review D, 2008, 78, .	4.7	33
27	Evading death by vacuum. European Physical Journal C, 2013, 73, 1.	3.9	33
28	A two-Higgs doublet model with remarkable CP properties. European Physical Journal C, 2010, 69, 45-52.	3.9	32
29	C -conserving multi-Higgs model with irremovable complex coefficients. Physical Review D, 2016, 93, .	4.7	32
30	Large pseudoscalar Yukawa couplings in the complex 2HDM. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
31	Weak magnetic dipole moments in two-Higgs-doublet models. Physical Review D, 1996, 53, 5222-5232.	4.7	28
32	Abelian symmetries in the two-Higgs-doublet model with fermions. Physical Review D, 2011, 83, .	4.7	28
33	Detecting New Physics Contributions to the D^0 - \bar{D}^0 Mixing through Their Effects on B Decays. Physical Review Letters, 1998, 81, 1377-1380.	7.8	25
34	Constraining new interactions with leptonic \bar{l}_i decays. Physical Review D, 1995, 52, 4006-4018.	4.7	24
35	New CP-violating parameters in cascade decays. Physical Review D, 1999, 59, .	4.7	24
36	Reparametrization invariance of B decay amplitudes and implications for new physics searches in B decays. Physical Review D, 2005, 71, .	4.7	24

#	ARTICLE	IF	CITATIONS
37	CP properties of symmetry-constrained two-Higgs-doublet models. Journal of High Energy Physics, 2010, 2010, 1. Reappraisal of the wrong-sign $h \rightarrow b\bar{b}$ coupling and the study of $h \rightarrow Z\tau^+\tau^-$. Physical Review D, 2010, 2010, 1.	4.7	23
38	stretchy="false"> \hat{A} </mml:mo></mml:mover></mml:math>coupling and the study of $h \rightarrow Z\tau^+\tau^-$. Physical Review D, 2010, 2010, 1.	4.7	22
39	Constraining multi-Higgs flavour models. European Physical Journal C, 2014, 74, 1.	3.9	22
40	Using Kaon Regeneration to Probe the Quark Mixing Parameter $\cos 2\hat{\beta}$ in $B \rightarrow \tau^+\tau^-$ Decays. Physical Review Letters, 2000, 85, 5284-5287.	7.8	20
41	Undoubtable signs of CP-violation in Higgs boson decays at the LHC run 2. Physical Review D, 2015, 92, . Constraining wrong-sign $h \rightarrow b\bar{b}$ couplings with $h \rightarrow Z\tau^+\tau^-$. Physical Review D, 2016, 94, .	4.7	17
42	display="inline">\hat{A}</mml:mo></mml:mover></mml:math> couplings with $h \rightarrow Z\tau^+\tau^-$. Physical Review D, 2016, 94, .	4.7	17
43	Basis-independent treatment of the complex 2HDM. Physical Review D, 2020, 101, .	4.7	17
44	Implications of the possibility that $\sin 2\hat{\beta}$ is small. Physical Review D, 2001, 63, .	4.7	16
45	Disentangling violations of CPT from other new-physics effects. Physical Review D, 1999, 60, .	4.7	14
46	Can one detect new physics in $h \rightarrow b\bar{b}$ and $h \rightarrow Z\tau^+\tau^-$ contributions to the decays $B \rightarrow \tau^+\tau^-$. Physical Review D, 2005, 72, .	4.7	14
47	Use of the reciprocal basis in neutral meson mixing. Physical Review D, 2000, 62, .	4.7	12
48	Self-cancellation of a scalar in neutral meson mixing and implications for the LHC. Physical Review D, 2015, 92, .	4.7	12
49	Two Higgs doublet models with an S_{33} symmetry. Physical Review D, 2016, 93, .	4.7	12
50	Multi-Higgs doublet models: the Higgs-fermion couplings and their sum rules. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
51	Leaks of CP violation in the real two-Higgs-doublet model. European Physical Journal C, 2021, 81, 1.	3.9	12
52	Measurements of new physics in $B \rightarrow \tau^+\tau^-$ decays. Physical Review D, 2005, 72, .	4.7	11
53	CP violation in 2HDM and EFT: the ZZZ vertex. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
54	Approximate flavor symmetries in the lepton sector. Physical Review D, 1994, 49, R20-R23.	4.7	10

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55	Symmetry constrained two Higgs doublet models. European Physical Journal C, 2018, 78, 1.	3.9	10
56	Nondecoupling in multi-Higgs doublet models. European Physical Journal C, 2020, 80, 1.	3.9	10
57	Basis-invariant conditions for $C < P < /math > symmetry of order four. Physical Review D, 2019, 99, .$	4.7	9
58	A note on thermal activation. Nuclear Physics B, 1995, 441, 595-608.	2.5	8
59	Symmetry and decoupling in multi-Higgs boson models. Physical Review D, 2021, 103, .	4.7	7
60	Current bounds on the type-Z $Z^3 < /math > three-Higgs-doublet model. Physical Review D, 2021, 104, .$	4.7	7
61	Natural masslessness conservation for neutrinos in two-Higgs-doublet models. Physical Review D, 1994, 50, 4581-4588.	4.7	6
62	Looking for $I=5/2$ amplitude components in $B^+ \rightarrow \pi^0 \pi^+$ and $B^+ \rightarrow \pi^+ \pi^0$ experiments. Physical Review D, 2006, 73, .	4.7	6
63	Basis invariant conditions for supersymmetry in the two-Higgs-doublet model. Physical Review D, 2010, 82, .	4.7	6
64	A soft origin for CKM-type CP violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 179-188.	4.1	6
65	Decoupling or nondecoupling: Is that the question?. Physical Review D, 1996, 54, 1176-1181.	4.7	5
66	Qualitative signals of new physics in $B^+ \rightarrow B^0 \pi^+$ mixing. Physical Review D, 2000, 62, .	4.7	5
67	Baryogenesis through split Higgsogenesis. Journal of High Energy Physics, 2013, 2013, 1.	4.7	5
68	Exceptional regions of the 2HDM parameter space. Physical Review D, 2021, 103, .	4.7	5
69	What can we learn from a measurement of $\sin(2\hat{\theta}^2 + \hat{\theta}^3)$?. Physical Review D, 2003, 67, .	4.7	4
70	Comparing a current-carrying circular wire with polygons of equal perimeter: magnetic field versus magnetic flux. European Journal of Physics, 2005, 26, 783-790.	0.6	3
71	On the relation between angular momentum and angular velocity. American Journal of Physics, 2007, 75, 53-55.	0.7	3
72	Avoiding Death by Vacuum. Journal of Physics: Conference Series, 2013, 447, 012051.	0.4	3

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73	Matter effects in the $D_0\bar{D}_0$ -system. <i>Physical Review D</i> , 2000, 63, .	4.7	2
74	Tilted boxes on inclined planes. <i>American Journal of Physics</i> , 2000, 68, 1042-1049.	0.7	2
75	Bounds on β from CP violation measurements in $B \rightarrow \pi^0 \pi^0$ and $B \rightarrow \pi^0 K_S$. <i>Physical Review D</i> , 2004, 70, .	4.7	2
76	Surprises of the transformer as a coupled oscillator system. <i>European Journal of Physics</i> , 2008, 29, 413-420.	0.6	2
77	One-loop corrections to the $Zb\bar{b}$ vertex in models with scalar doublets and singlets. <i>Nuclear Physics B</i> , 2020, 958, 115131.	2.5	2
78	Off diagonal charged scalar couplings with the Z boson: Zee-type models as an example. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	2
79	Probing CP violation with time integrated decay rates into non-CP eigenstates. <i>Physical Review D</i> , 1998, 58, .	4.7	1
80	Magnetic Forces Acting on Rigid Current-Carrying Wires Placed in a Uniform Magnetic Field. <i>Physics Teacher</i> , 2004, 42, 161-163.	0.3	1
81	CP VIOLATION. <i>International Journal of Modern Physics A</i> , 2007, 22, 4989-4997.	1.5	1
82	Probing Wrong-Sign hbb Couplings in $h \rightarrow \gamma \gamma$. <i>Springer Proceedings in Physics</i> , 2018, , 873-875.	0.2	1
83	Remarks on "Neutrino masses and mixing angles in a predictive theory of fermion masses". <i>Physical Review D</i> , 1994, 49, 3783-3786.	4.7	0
84	Mutual inductance between piecewise-linear loops. <i>American Journal of Physics</i> , 2013, 81, 829-835.	0.7	0
85	DISCRETE 2012 – Third Symposium on Prospects in the Physics of Discrete Symmetries. <i>Journal of Physics: Conference Series</i> , 2013, 447, 011001.	0.4	0
86	A fully basis invariant symmetry map of the 2HDM. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	0