

Assumpta Parreño

List of Publications by Year in descending order

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72
papers

2,708
citations

159585

30
h-index

175258

52
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74
all docs

74
docs citations

74
times ranked

930
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear matrix elements from lattice QCD for electroweak and beyond-Standard-Model processes. Physics Reports, 2021, 900, 1-74.	25.6	39
2	Low-energy scattering and effective interactions of two baryons at $\epsilon \ll \Lambda_{\text{QCD}}$ from lattice quantum chromodynamics. Physical Review D, 2021, 103, .	4.7	20
3	Axial charge of the triton from lattice QCD. Physical Review D, 2021, 103, .	4.7	11
4	Baryon magnetic moments: Symmetries and relations. EPJ Web of Conferences, 2018, 175, 06001.	0.3	1
5	Effects of Λ - Σ mixing in the decay of Λ_{b} . Journal of Physics: Conference Series, 2018, 1024, 012012.	0.4	0
6	Effects of Λ - Σ mixing in the decay of Λ_{b} . Journal of Physics: Conference Series, 2018, 1024, 012012.	2.9	0
7	Octet baryon magnetic moments from lattice QCD: Approaching experiment from a three-flavor symmetric point. Physical Review D, 2017, 95, .	4.7	22
8	Unitary Limit of Two-Nucleon Interactions in Strong Magnetic Fields. Physical Review Letters, 2016, 116, 112301.	7.8	20
9	Next-to-leading order effective field theory Λ - Σ NN potential in coordinate space. Nuclear Physics A, 2016, 954, 213-241.	1.5	2
10	Quarkonium-nucleus bound states from lattice QCD. Physical Review D, 2015, 91, .	4.7	40
11	Magnetic structure of light nuclei from lattice QCD. Physical Review D, 2015, 92, .	4.7	62
12	Two nucleon systems at $\epsilon \ll \Lambda_{\text{QCD}}$ from lattice QCD. Physical Review D, 2015, 92, .	4.7	62
13	Calculation of the Λ - Σ Radiative Capture Process. Physical Review Letters, 2015, 115, 132001.	7.8	68
14	Magnetic Moments of Light Nuclei from Lattice Quantum Chromodynamics. Physical Review Letters, 2014, 113, 252001.	7.8	62
15	Lattice QCD calculations for nuclear physics. , 2014, , .		0
16	Non-mesonic weak decay of hypernuclei with effective field theory. Journal of Physics: Conference Series, 2014, 503, 012033.	0.4	0
17	Higher order contributions to the weak Λ - Σ transition. Nuclear Physics A, 2013, 911, 1-12.	1.5	2
18	Nucleon-nucleon scattering parameters in the limit of SU(3) flavor symmetry. Physical Review C, 2013, 88, .	2.9	72

#	ARTICLE	IF	CITATIONS
19	Light nuclei and hypernuclei from quantum chromodynamics in the limit of SU(3) flavor symmetry. Physical Review D, 2013, 87, .	4.7	172
20	One-loop contributions in the effective field theory for the $\Lambda \rightarrow p \pi$ transition. Physical Review C, 2013, 87, .	2.9	11
21	S_{11} and S_{11} hypernuclei. Physical Review D, 2012, 86, .	4.7	11
22	Hyperon-Nucleon Interactions from Quantum Chromodynamics and the Composition of Dense Nuclear Matter. Physical Review Letters, 2012, 109, 172001.	7.8	71
23	Microscopic approach to the proton asymmetry in the nonmesonic weak decay of Λ hypernuclei. Physical Review C, 2012, 85, .	2.9	8
24	Deuteron and exotic two-body bound states from lattice QCD. Physical Review D, 2012, 85, .	4.7	107
25	Λ hypernuclei. Physical Review D, 2012, 85, .	4.7	74
26	Binding two baryons in Lattice QCD. Nuclear Physics A, 2012, 881, 14-27.	1.5	1
27	High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses. Physical Review D, 2011, 84, .	4.7	42
28	Evidence for a Bound Λ -Dibaryon from Lattice QCD. Physical Review Letters, 2011, 106, 162001.	7.8	210
29	Publisher's Note: High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses [Phys. Rev. D 84 , 014507 (2011)]. Physical Review D, 2011, 84, .	4.7	3
30	Constraints on effective field theory parameters for the $\Lambda \rightarrow p \pi$ transition. Physical Review C, 2011, 84, .	2.9	10
31	PRESENT CONSTRAINTS ON THE H-DIBARYON AT THE PHYSICAL POINT FROM LATTICE QCD. Modern Physics Letters A, 2011, 26, 2587-2595.	1.2	61
32	Single and double coincidence nucleon spectra in the weak decay of Λ -hypernuclei. Nuclear Physics A, 2010, 836, 199-224.	1.5	23
33	YN and YY interactions from lattice QCD simulations. Nuclear Physics A, 2010, 835, 184-191.	1.5	0
34	Meson-baryon scattering lengths from mixed-action lattice QCD. Physical Review D, 2010, 81, .	4.7	41
35	High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, .	4.7	69
36	High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, .	4.7	58

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37	Extracting low-energy hadron-hadron physics from lattice QCD. <i>Few-Body Systems</i> , 2008, 43, 149-154.	1.5	0
38	A theoretical overview of hypernuclear weak decay. <i>Nuclear Physics A</i> , 2008, 804, 162-170.	1.5	9
39	K+K scattering length from lattice QCD. <i>Physical Review D</i> , 2008, 77, .	4.7	46
40	Multipion states in lattice QCD and the charged-pion condensate. <i>Physical Review D</i> , 2008, 78, .	4.7	82
41	Precise determination of the $\pi\pi$ scattering length from mixed-action lattice QCD. <i>Physical Review D</i> , 2008, 77, .	4.7	89
42	The transition in finite nuclei. <i>Nuclear Physics A</i> , 2007, 791, 329-341.	1.5	3
43	Hyperon-nucleon scattering from fully-dynamical lattice QCD. <i>Nuclear Physics A</i> , 2007, 794, 62-72.	1.5	83
44	Two-pion-exchange in the non-mesonic weak decay of Λ -hypernuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 657, 180-186.	4.1	24
45	Weak Decays of Hypernuclei. , 2007, , 141-189.		19
46	$\pi\pi$ scattering in full QCD with domain-wall valence quarks. <i>Physical Review D</i> , 2006, 74, .	4.7	58
47	Recent theoretical progress in hypernuclear decay. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
48	A framework for exploring the interactions and decays of hyperons with lattice QCD. <i>Nuclear Physics A</i> , 2005, 747, 55-74.	1.5	84
49	Non-mesonic weak decay of Λ -hypernuclei: a new determination of the ratio. <i>Nuclear Physics A</i> , 2005, 754, 137-143.	1.5	7
50	An EFT for the weak ΛN interaction. <i>Nuclear Physics A</i> , 2005, 754, 127-136.	1.5	12
51	Asymmetries in the Nonmesonic Weak Decay of Polarized Λ -Hypernuclei. <i>Physical Review Letters</i> , 2005, 94, 082501.	7.8	23
52	$\Lambda N \rightarrow NN$ weak interaction in effective-field theory. <i>Physical Review C</i> , 2004, 70, .	2.9	30
53	Towards a solution of the $\pi\pi$ puzzle in the nonmesonic weak decay of Λ -hypernuclei. <i>Physical Review C</i> , 2004, 69, .	2.9	56
54	Two nucleons on a lattice. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 585, 106-114.	4.1	189

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55	Λ - and Λ -hypernuclear decay predictions in a OME model. Nuclear Physics A, 2003, 721, C967-C970.	1.5	0
56	Nucleon-Nucleon Coincidence Spectra in the Nonmesonic Weak Decay of Λ -Hypernuclei and the n/\bar{n} Puzzle. Physical Review Letters, 2003, 91, 112501.	7.8	46
57	Final-state interactions in hypernuclear decay. Physical Review C, 2001, 65, .	2.9	62
58	Role of deformation in the nonmesonic decay of light hypernuclei. Physical Review C, 2001, 63, .	2.9	9
59	Novel weak decays in doubly strange systems. Physical Review C, 2001, 65, .	2.9	18
60	DYNAMICAL MESON-BARYON RESONANCES WITH CHIRAL LAGRANGIANS. , 2001, , 59-66.		0
61	Recent progress on the chiral unitary approach to meson meson and meson baryon interactions. Nuclear Physics A, 2000, 670, 111-118.	1.5	1
62	Chiral unitary approach to the , couplings for the resonance. Nuclear Physics A, 2000, 678, 187-211.	1.5	50
63	SU(3) Chiral approach to meson and baryon dynamics. Nuclear Physics A, 2000, 663-664, 497c-500c.	1.5	1
64	Decay of hypernuclei. Nuclear Physics A, 2000, 670, 257-264.	1.5	0
65	Weak strangeness production reaction $n\bar{n}\pi^+\pi^0$ in a one-boson-exchange model. Physical Review C, 1999, 59, 2122-2129.	2.9	12
66	The nonmesonic weak decay of the hypertriton. Nuclear Physics A, 1998, 631, 740-744.	1.5	2
67	Non-mesonic weak decay of A hypernuclei. Nuclear Physics A, 1998, 639, 307c-316c.	1.5	3
68	Violation of the $\Delta I=1/2$ rule in the nonmesonic weak decay of Λ hypernuclei. Nuclear Physics A, 1998, 639, 333c-336c.	1.5	0
69	Violation of the $\Delta I=1/2$ rule in the nonmesonic weak decay of hypernuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 435, 1-8.	4.1	30
70	Weak decay of hypernuclei. Physical Review C, 1997, 56, 339-364.	2.9	108
71	Nonmesonic weak decay of the hypertriton. Physical Review C, 1997, 55, 2196-2213.	2.9	26
72	Short range correlations in the weak decay of Λ hypernuclei. Physical Review C, 1995, 51, 2477-2487.	2.9	11