

# 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  
g-index

74  
all docs

74  
docs citations

74  
times ranked

930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a Bound $H$ Dibaryon from Lattice QCD. Physical Review Letters, 2011, 106, 162001.	7.8	210
2	Two nucleons on a lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 585, 106-114.	4.1	189
3	Light nuclei and hypernuclei from quantum chromodynamics in the limit of SU(3) flavor symmetry. Physical Review D, 2013, 87, .	4.7	172
4	Weak decay of hypernuclei. Physical Review C, 1997, 56, 339-364.	2.9	108
5	Deuteron and exotic two-body bound states from lattice QCD. Physical Review D, 2012, 85, .	4.7	107
6	Two nucleon systems at $m_\pi \rightarrow 0$ from lattice QCD. Physical Review D, 2015, 92, .	4.7	92
7	Precise determination of the $n\bar{p}$ scattering length from mixed-action lattice QCD. Physical Review D, 2008, 77, .	4.7	89
8	A framework for exploring the interactions and decays of hyperons with lattice QCD. Nuclear Physics A, 2005, 747, 55-74.	1.5	84
9	Hyperon-nucleon scattering from fully-dynamical lattice QCD. Nuclear Physics A, 2007, 794, 62-72.	1.5	83
10	Multipion states in lattice QCD and the charged-pion condensate. Physical Review D, 2008, 78, .	4.7	82
11	$\pi\pi$ scattering phase shift from lattice QCD. Physical Review D, 2009, 79, .	4.7	74
12	Nucleon-nucleon scattering parameters in the limit of SU(3) flavor symmetry. Physical Review C, 2013, 88, .	2.9	72
13	Hyperon-Nucleon Interactions from Quantum Chromodynamics and the Composition of Dense Nuclear Matter. Physical Review Letters, 2012, 109, 172001.	7.8	71
14	High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, .	4.7	69
15	Calculation of the $^3P_0$ Radiative Capture Process. Physical Review Letters, 2015, 115, 132001.	7.8	68
16	Final-state interactions in hypernuclear decay. Physical Review C, 2001, 65, .	2.9	62
17	Magnetic Moments of Light Nuclei from Lattice Quantum Chromodynamics. Physical Review Letters, 2014, 113, 252001.	7.8	62
18	Magnetic structure of light nuclei from lattice QCD. Physical Review D, 2015, 92, .	4.7	62

#	ARTICLE	IF	CITATIONS
19	PRESENT CONSTRAINTS ON THE H-DIBARYON AT THE PHYSICAL POINT FROM LATTICE QCD. Modern Physics Letters A, 2011, 26, 2587-2595.	1.2	61
20	$\bar{K}K$ scattering in full QCD with domain-wall valence quarks. Physical Review D, 2006, 74, .	4.7	58
21	High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, .	4.7	58
22	Towards a solution of the $\Lambda^0 \rightarrow \Lambda^0 p$ puzzle in the nonmesonic weak decay of $\Lambda$ hypernuclei. Physical Review C, 2004, 69, .	2.9	56
23	Chiral unitary approach to the $\Lambda(1520)$ couplings for the resonance. Nuclear Physics A, 2000, 678, 187-211.	1.5	50
24	Nucleon-Nucleon Coincidence Spectra in the Nonmesonic Weak Decay of $\Lambda$ Hypernuclei and the $\Lambda^0 \rightarrow \Lambda^0 p$ Puzzle. Physical Review Letters, 2003, 91, 112501.	7.8	46
25	$K^+K^+$ scattering length from lattice QCD. Physical Review D, 2008, 77, .	4.7	46
26	High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses. Physical Review D, 2011, 84, .	4.7	42
27	Meson-baryon scattering lengths from mixed-action lattice QCD. Physical Review D, 2010, 81, .	4.7	41
28	Quarkonium-nucleus bound states from lattice QCD. Physical Review D, 2015, 91, .	4.7	40
29	Nuclear matrix elements from lattice QCD for electroweak and beyond-Standard-Model processes. Physics Reports, 2021, 900, 1-74.	25.6	39
30	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
31	$\Lambda^0 \rightarrow \Lambda^0 p$ NN weak interaction in effective-field theory. Physical Review C, 2004, 70, .	2.9	30
32	Nonmesonic weak decay of the hypertriton. Physical Review C, 1997, 55, 2196-2213.	2.9	26
33	Two-pion-exchange in the non-mesonic weak decay of $\Lambda$ -hypernuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 657, 180-186.	4.1	24
34	Asymmetries in the Nonmesonic Weak Decay of Polarized $\Lambda$ -Hypernuclei. Physical Review Letters, 2005, 94, 082501.	7.8	23
35	Single and double coincidence nucleon spectra in the weak decay of $\Lambda$ -hypernuclei. Nuclear Physics A, 2010, 836, 199-224.	1.5	23
36	$\Lambda^0 \rightarrow \Lambda^0 p$ NN weak interaction in effective-field theory. Physical Review D, 2012, 86, .		

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37	Octet baryon magnetic moments from lattice QCD: Approaching experiment from a three-flavor symmetric point. Physical Review D, 2017, 95, .	4.7	22
38	Unitary Limit of Two-Nucleon Interactions in Strong Magnetic Fields. Physical Review Letters, 2016, 116, 112301.	7.8	20
39	Low-energy scattering and effective interactions of two baryons at $\mu \ll m_\pi$ from lattice quantum chromodynamics. Physical Review D, 2021, 103, .	4.7	20
40	Weak Decays of Hypernuclei. , 2007, , 141-189.		19
41	Novel weak decays in doubly strange systems. Physical Review C, 2001, 65, .	2.9	18
42	Weak strangeness production reaction $n\bar{p} \rightarrow p\bar{n}$ in a one-boson-exchange model. Physical Review C, 1999, 59, 2122-2129.	2.9	12
43	An EFT for the weak $\Lambda N$ interaction. Nuclear Physics A, 2005, 754, 127-136.	1.5	12
44	Short range correlations in the weak decay of $\Lambda$ hypernuclei. Physical Review C, 1995, 51, 2477-2487.	2.9	11
45	One-loop contributions in the effective field theory for the $\Lambda \rightarrow N\pi$ transition. Physical Review C, 2013, 87, .	2.9	11
46	Axial charge of the triton from lattice QCD. Physical Review D, 2021, 103, .	4.7	11
47	Constraints on effective field theory parameters for the $\Lambda \rightarrow N\pi$ transition. Physical Review C, 2011, 84, .	2.9	10
48	Role of deformation in the nonmesonic decay of light hypernuclei. Physical Review C, 2001, 63, .	2.9	9
49	A theoretical overview of hypernuclear weak decay. Nuclear Physics A, 2008, 804, 162-170.	1.5	9
50	Microscopic approach to the proton asymmetry in the nonmesonic weak decay of $\Lambda$ hypernuclei. Physical Review C, 2012, 85, .	2.9	8
51	Non-mesonic weak decay of $\Lambda$ -hypernuclei: a new determination of the ratio. Nuclear Physics A, 2005, 754, 137-143.	1.5	7
52	Non-mesonic weak decay of A hypernuclei. Nuclear Physics A, 1998, 639, 307c-316c.	1.5	3
53	The transition in finite nuclei. Nuclear Physics A, 2007, 791, 329-341.	1.5	3
54	Publisher's Note: High statistics analysis using anisotropic clover lattices: IV. Volume dependence of light hadron masses [Phys. Rev. D <b>84</b> , 014507 (2011)]. Physical Review D, 2011, 84, .	4.7	3

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55	The nonmesonic weak decay of the hypertriton. Nuclear Physics A, 1998, 631, 740-744.	1.5	2
56	Higher order contributions to the weak $\Lambda \rightarrow N \pi$ transition. Nuclear Physics A, 1998, 631, 740-744. <a href="http://www.elsevier.com/xml/xocs/dtd">Higher order contributions to the weak <math>\Lambda \rightarrow N \pi</math> transition. Nuclear Physics A, 1998, 631, 740-744.</a>	1.5	2
57	Next-to-leading order effective field theory $\Lambda \rightarrow N \pi$ NN potential in coordinate space. Nuclear Physics A, 2016, 954, 213-241.	1.5	2
58	Recent progress on the chiral unitary approach to meson meson and meson baryon interactions. Nuclear Physics A, 2000, 670, 111-118.	1.5	1
59	SU(3) Chiral approach to meson and baryon dynamics. Nuclear Physics A, 2000, 663-664, 497c-500c.	1.5	1
60	Binding two baryons in Lattice QCD. Nuclear Physics A, 2012, 881, 14-27.	1.5	1
61	Baryon magnetic moments: Symmetries and relations. EPJ Web of Conferences, 2018, 175, 06001.	0.3	1
62	Violation of the $I^G = 1/2$ rule in the nonmesonic weak decay of $\Lambda$ hypernuclei. Nuclear Physics A, 1998, 639, 333c-336c.	1.5	0
63	Decay of hypernuclei. Nuclear Physics A, 2000, 670, 257-264.	1.5	0
64	$\Lambda^-$ and $\Lambda \Lambda$ -hypernuclear decay predictions in a OME model. Nuclear Physics A, 2003, 721, C967-C970.	1.5	0
65	Recent theoretical progress in hypernuclear decay. AIP Conference Proceedings, 2006, , .	0.4	0
66	Extracting low-energy hadron-hadron physics from lattice QCD. Few-Body Systems, 2008, 43, 149-154.	1.5	0
67	YN and YY interactions from lattice QCD simulations. Nuclear Physics A, 2010, 835, 184-191.	1.5	0
68	Lattice QCD calculations for nuclear physics. , 2014, , .		0
69	Non-mesonic weak decay of hypernuclei with effective field theory. Journal of Physics: Conference Series, 2014, 503, 012033.	0.4	0
70	Effects of $\Lambda \Lambda$ mixing in the decay of $\Lambda \Lambda$ hypernuclei. Journal of Physics: Conference Series, 2018, 1024, 012012.	0.4	0
71	Effects of $\Lambda \Lambda$ mixing in the decay of $\Lambda \Lambda$ hypernuclei. Journal of Physics: Conference Series, 2018, 1024, 012012.	2.9	0
72	DYNAMICAL MESON-BARYON RESONANCES WITH CHIRAL LAGRANGIANS. , 2001, , 59-66.		0