

Javier Vijande

List of Publications by Year in descending order

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139
papers

2,843
citations

201674

27
h-index

189892

50
g-index

142
all docs

142
docs citations

142
times ranked

1303
citing authors

#	ARTICLE	IF	CITATIONS
1	Constituent quark model study of the meson spectra. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 481-506.	3.6	302
2	Towards an understanding of heavy baryon spectroscopy. European Physical Journal A, 2008, 37, 217-225.	2.5	157
3	Faddeev study of heavy-baryon spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 961-976.	3.6	137
4	Four-quark spectroscopy within the hyperspherical formalism. Physical Review D, 2006, 73, .	4.7	112
5	Tetraquarks in a chiral constituent-quark model. European Physical Journal A, 2004, 19, 383-389.	2.5	91
6	Exotic meson-meson molecules and compact four-quark states. Physical Review D, 2009, 79, .	4.7	91
7	Stability of multiquarks in a simple string model. Physical Review D, 2007, 76, .	4.7	84
8	String dynamics and metastability of all-heavy tetraquarks. Physical Review D, 2017, 95, .	4.7	79
9	Spectroscopy of doubly charmed baryons. Physical Review D, 2004, 70, .	4.7	75
10	Dosimetry revisited for the HDR brachytherapy source model mHDR \hat{v} 2. Medical Physics, 2011, 38, 487-494.	3.0	75
11	Few-body quark dynamics for doubly heavy baryons and tetraquarks. Physical Review C, 2018, 97, .	2.9	72
12	Nature of the light scalar mesons. Physical Review D, 2005, 72, .	4.7	69
13	Are there compact heavy four-quark bound states?. Physical Review D, 2007, 76, .	4.7	64
14	A generic high-dose rate ¹⁹² Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. Medical Physics, 2015, 42, 3048-3062.	3.0	64
15	Constituent quark model study of light- and strange-baryon spectra. Physical Review C, 2005, 72, .	2.9	63
16	Charmonium Spectroscopy above Thresholds. Physical Review Letters, 2009, 103, 222001.	7.8	61
17	Open-charm meson spectroscopy. Physical Review D, 2006, 73, .	4.7	57
18	Doubly charmed exotic mesons: A gift of nature?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 291-295.	4.1	49

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37	Stability of hexaquarks in the string limit of confinement. Physical Review D, 2012, 85, .	4.7	22
38	Production of exotic tetraquarks $Q\bar{Q}q\bar{q}$ in heavy-ion collisions at the LHC. Physical Review D, 2019, 99, .	4.7	22
39	Very Heavy Flavored Dibaryons. Physical Review Letters, 2020, 124, 212001.	7.8	21
40	HEAVY HADRON SPECTROSCOPY: A QUARK MODEL PERSPECTIVE. International Journal of Modern Physics E, 2013, 22, 1330011.	1.0	19
41	Angular pseudomomentum theory for the generalized nonlinear Schrödinger equation in discrete rotational symmetry media. Physica D: Nonlinear Phenomena, 2009, 238, 1432-1438.	2.8	18
42	Dosimetry comparison between TG-43 and Monte Carlo calculations using the Freiburg flap for skin high-dose-rate brachytherapy. Brachytherapy, 2012, 11, 528-535.	0.5	18
43	Adiabaticity and color mixing in tetraquark spectroscopy. Physical Review D, 2013, 87, .	4.7	18
44	Unraveling the pattern of the XYZ mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 325-328.	4.1	18
45	Model-Based Dose Calculation Algorithms for Brachytherapy Dosimetry. Seminars in Radiation Oncology, 2020, 30, 77-86.	2.2	18
46	Commissioning and periodic tests of the Esteya [®] electronic brachytherapy system. Journal of Contemporary Brachytherapy, 2015, 2, 189-195.	0.9	17
47	Technical Note: Dosimetry of Leipzig and Valencia applicators without the plastic cap. Medical Physics, 2016, 43, 2087-2090.	3.0	17
48	Design and characterization of a new high-dose-rate brachytherapy Valencia applicator for larger skin lesions. Medical Physics, 2016, 43, 1639-1648.	3.0	15
49	Charged charmonium molecules. Physical Review D, 2010, 82, .	4.7	14
50	Heavy-baryon quark model picture from lattice QCD. Physical Review D, 2014, 90, .	4.7	14
51	Pentaquarks with anticharm or beauty revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 248-250.	4.1	14
52	Hall's Post inequalities: Review and application to molecules and tetraquarks. Annals of Physics, 2020, 412, 168009.	2.8	14
53	Comparison and uncertainty evaluation of different calibration protocols and ionization chambers for low-energy surface brachytherapy dosimetry. Medical Physics, 2015, 42, 4954-4964.	3.0	13
54	Commissioning and quality assurance procedures for the HDR Valencia skin applicators. Journal of Contemporary Brachytherapy, 2016, 5, 441-447.	0.9	12

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55	Maximal isospin few-body systems of nucleons and Λ hyperons. Physical Review C, 2016, 94, .	2.9	12
56	DESCRIBING NON- Q CANDIDATES. International Journal of Modern Physics A, 2005, 20, 702-704.	1.5	11
57	Meson-baryon threshold effects in the light-quark baryon spectrum. Physical Review C, 2008, 77, .	2.9	11
58	Topological charge selection rule for phase singularities. Physical Review A, 2009, 80, .	2.5	11
59	Hadronic molecules with Λ -meson in a medium. Physical Review D, 2016, 94, .	4.7	11
60	Four-Quark Stability. Few-Body Systems, 2009, 45, 99-103.	1.5	10
61	Dosimetric perturbations of a lead shield for surface and interstitial high-dose-rate brachytherapy. Journal of Radiological Protection, 2014, 34, 297-311.	1.1	10
62	Doubly heavy baryon spectra guided by lattice QCD. Physical Review D, 2016, 94, .	4.7	10
63	HYPERSPHERICAL HARMONIC FORMALISM FOR TETRAQUARKS. International Journal of Modern Physics A, 2007, 22, 561-565.	1.5	9
64	Monte Carlo dosimetric study of the medium dose rate CSM40 source. Applied Radiation and Isotopes, 2013, 82, 283-288.	1.5	9
65	A study of Type B uncertainties associated with the photoelectric effect in low-energy Monte Carlo simulations. Physics in Medicine and Biology, 2021, 66, 105014.	3.0	9
66	Spectral patterns in the nonstrange-baryon spectrum. European Physical Journal A, 2006, 29, 235-244.	2.5	8
67	A practical MRI-based reconstruction method for a new endocavitary and interstitial gynaecological template. Journal of Contemporary Brachytherapy, 2015, 5, 407-414.	0.9	8
68	DOUBLY CHARMED MESONS. International Journal of Modern Physics Conference Series, 2011, 02, 173-177.	0.7	7
69	Charmed baryons in nuclear matter. Physical Review D, 2018, 98, .	4.7	7
70	Monte Carlo calculation of beam quality correction factors for PTW cylindrical ionization chambers in photon beams. Physics in Medicine and Biology, 2020, 65, 205005.	3.0	7
71		4.1	6
72	Screened potential and quarkonia properties at high temperatures. European Physical Journal A, 2009, 40, 89-97.	2.5	6

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73	Heavy baryon spectroscopy with relativistic kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 288-295.	4.1	6
74	$\bar{b}b$ DESCRIPTION WITH A SCREENED POTENTIAL. International Journal of Modern Physics A, 2005, 20, 1842-1845.	1.5	5
75	Baryon Resonances. Nuclear Physics A, 2010, 835, 271-278.	1.5	5
76	Evaluation of the shielding in a treatment room with an electronic brachytherapy unit. Journal of Radiological Protection, 2017, 37, N5-N12.	1.1	5
77	Collision-kerma conversion between dose-to-tissue and dose-to-water by photon energy-fluence corrections in low-energy brachytherapy. Physics in Medicine and Biology, 2017, 62, 146-164.	3.0	5
78	A Monte Carlo based dosimetric characterization of Esteya [®] , an electronic surface brachytherapy unit. Medical Physics, 2019, 46, 356-369.	3.0	5
79	Hyperspherical harmonic study of identical-flavor four-quark systems. Nuclear Physics A, 2007, 790, 542c-545c.	1.5	4
80	Double Charmed and Charmless Four-Quark States. Few-Body Systems, 2011, 50, 195-198.	1.5	4
81	Effect of relativistic kinematics on the stability of multiquarks. Physical Review D, 2021, 103, .	4.7	4
82	Multiquark structures in heavy-light meson systems. Nuclear Physics A, 2007, 790, 506c-509c.	1.5	3
83	Stability of Multiquarks in an Improved Flip-Flop Model of Confinement. Few-Body Systems, 2013, 54, 1015-1018.	1.5	3
84	Assaying multiple ¹²⁵ I seeds with the well-ionization chamber SourceCheck 4i 33005 and a new insert. Journal of Contemporary Brachytherapy, 2015, 6, 492-496.	0.9	3
85	A simple analytical method for heterogeneity corrections in low dose rate prostate brachytherapy. Physics in Medicine and Biology, 2015, 60, 5455-5469.	3.0	3
86	Calibration of a thermoluminescent dosimeter worn over lead aprons in fluoroscopy guided procedures. Journal of Radiological Protection, 2018, 38, 549-564.	1.1	3
87	Peripheral dose around a mobile linac for intraoperative radiotherapy: radiation protection aspects. Journal of Radiological Protection, 2018, 38, 1393-1411.	1.1	3
88	A SU(4) → O(3) scheme for nonstrange baryons. European Physical Journal A, 2007, 31, 515-518.	2.5	2
89	Molecular and compact four-quark states. Chinese Physics C, 2010, 34, 1290-1293.	3.7	2
90	Heavy hadron spectroscopy: A quark model perspective. Nuclear Physics A, 2013, 914, 472-481.	1.5	2

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91	Transit dose comparisons for ^{60}Co and ^{192}Ir HDR sources. Journal of Radiological Protection, 2016, 36, 858-864.	1.1	2
92	Prescription Depth in Surface Skin Brachytherapy. Brachytherapy, 2017, 16, S50-S51.	0.5	2
93	Stability of Heavy Tetraquarks. Few-Body Systems, 2018, 59, 1.	1.5	2
94	Correction factors for ionization chamber measurements with the "Valencia"™ and "large field Valencia"™ brachytherapy applicators. Physics in Medicine and Biology, 2018, 63, 125004.	3.0	2
95	On the use of the absorbed depth-dose measurements in the beam calibration of a surface electronic high-dose-rate brachytherapy unit, a Monte Carlo-based study. Medical Physics, 2020, 47, 693-702.	3.0	2
96	Depth-dose measurement corrections for the surface electronic brachytherapy beams of an Esteya® unit: a Monte Carlo study. Physics in Medicine and Biology, 2020, 65, 245026.	3.0	2
97	quasibound state instead of $\hat{b}b$ bound state *. Chinese Physics C, 2020, 44, 024102.	3.7	2
98	Review on Treatment Planning Systems for Cervix Brachytherapy (Interventional Radiotherapy): Some Desirable and Convenient Practical Aspects to Be Implemented from Radiation Oncologist and Medical Physics Perspectives. Cancers, 2022, 14, 3467.	3.7	2
99	TOWARDS THE UNDERSTANDING OF THE MESON SPECTRA. International Journal of Modern Physics A, 2005, 20, 622-624.	1.5	1
100	Scalar Mesons As A Mixing Of Two And Four Quark States. AIP Conference Proceedings, 2006, , .	0.4	1
101	UNDERSTANDING OPEN-CHARM MESONS. International Journal of Modern Physics A, 2007, 22, 550-554.	1.5	1
102	The puzzle of the D and Ds mesons. European Physical Journal A, 2007, 31, 722-724.	2.5	1
103	Dynamically generated resonances. Chinese Physics C, 2009, 33, 1132-1139.	3.7	1
104	Meson-Meson molecules and compact four-quark states. , 2010, , .		1
105	Vector baryon interaction and dynamically generated resonances. , 2010, , .		1
106	CHARMONIUM: X(3872) AND BEYOND. International Journal of Modern Physics Conference Series, 2011, 02, 20-24.	0.7	1
107	ON THE NATURE OF THE X(3872). International Journal of Modern Physics A, 2011, 26, 570-572.	1.5	1
108	Too many X TM s, Y TM s and Z TM s?. Few-Body Systems, 2013, 54, 1005-1009.	1.5	1

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109	Air-kerma evaluation at the maze entrance of HDR brachytherapy facilities. Journal of Radiological Protection, 2014, 34, 741-753.	1.1	1
110	Towards clinical application of RayStretch for heterogeneity corrections in LDR permanent 125 I prostate brachytherapy. Brachytherapy, 2017, 16, 616-623.	0.5	1
111	Neutral baryonic systems with strangeness. International Journal of Modern Physics E, 2020, 29, 1930009.	1.0	1
112	Few-Body Insights of Multiquark Exotic Hadrons. Springer Proceedings in Physics, 2020, , 755-762.	0.2	1
113	The meson spectra beyond a $qq\bar{l}$ description. AIP Conference Proceedings, 2005, , .	0.4	0
114	The nature of the light scalar mesons. AIP Conference Proceedings, 2005, , .	0.4	0
115	Spectroscopy of doubly charmed baryons. AIP Conference Proceedings, 2006, , .	0.4	0
116	Recent results on charm spectroscopy. AIP Conference Proceedings, 2006, , .	0.4	0
117	Scalar Mesons and the Valence Quark Model. AIP Conference Proceedings, 2006, , .	0.4	0
118	Symmetry patterns in the $(N, \hat{1}^{\prime\prime})$ spectrum. Nuclear Physics A, 2007, 790, 550c-553c.	1.5	0
119	Quark-model hadron structure. Few-Body Systems, 2008, 43, 233-239.	1.5	0
120	On the existence of exotic and non-exotic multiquark meson states. Few-Body Systems, 2008, 44, 99-101.	1.5	0
121	Hadron physics: a quark-model analysis. AIP Conference Proceedings, 2008, , .	0.4	0
122	Recent issues in heavy-light meson spectroscopy. AIP Conference Proceedings, 2008, , .	0.4	0
123	An explanation of the $\hat{1}^{\prime\prime} D 35$ (1930) as a $\bar{l}f\hat{1}^{\prime\prime}$ bound state. Chinese Physics C, 2009, 33, 1267-1272.	3.7	0
124	Unveiling charmonium molecules. , 2010, , .		0
125	Charmonium molecules?. , 2010, , .		0
126	Hidden and open charm meson spectrum. , 2010, , .		0

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127	Quark-model study of the hadron structure and the hadron-hadron interaction. Journal of Physics: Conference Series, 2011, 322, 012015.	0.4	0
128	Multiquark Systems. Few-Body Systems, 2014, 55, 675-681.	1.5	0
129	On the origin of the XYZ mesons. AIP Conference Proceedings, 2016, , .	0.4	0
130	Response to "Comment on "Comparison and uncertainty evaluation of different calibration protocols and ionization chambers for low-energy surface brachytherapy dosimetry" [Med. Phys. 42, 4954-4964 (2015)]. Medical Physics, 2016, 43, 2007-2008.	3.0	0
131	VoxelMages: a general-purpose graphical interface for designing geometries and processing DICOM images for PENELOPE. Applied Radiation and Isotopes, 2016, 118, 251-257.	1.5	0
132	Study of CT/MRI mutual information based registration applied in brachytherapy. , 2016, , .		0
133	Breaking Symmetry Effects on Heavy Tetraquarks. International Journal of Modern Physics Conference Series, 2018, 46, 1860036.	0.7	0
134	Basics of doubly heavy tetraquarks. Journal of Physics: Conference Series, 2019, 1137, 012038.	0.4	0
135	A topological charge selection rule for phase singularities. , 2009, , .		0
136	Hunting exotics. , 2012, , .		0
137	A SU(4) (S ⁻) O(3) scheme for nonstrange baryons. , 2007, , 147-150.		0
138	The puzzle of the D and Ds mesons. , 2007, , 415-417.		0
139	A Monte Carlo study of the relative biological effectiveness in surface brachytherapy. Medical Physics, 2022, 49, 5576-5588.	3.0	0