Javier Vijande

List of Publications by Year
in descending order

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	A Monte Carlo study of the relative biological effectiveness in surface brachytherapy. Medical Physics, 2022, 49, 5576-5588.	3.0	0
2	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
3	Effect of relativistic kinematics on the stability of multiquarks. Physical Review D, 2021, 103, .	4.7	4
4	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
5	Spectroscopy, lifetime and decay modes of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msubsup><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>b</mml:mi><mml:mi>b</mml:mi></mml:mrow><mml:mrow><mml:mo linebreak="badbreak" linebreakstyle="after">â^’</mml:mo></mml:mrow></mml:msubsup></mml:math> tetraquark. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135073.	4.1	38
6	On the use of the absorbed depthâ€dose measurements in the beam calibration of a surface electronic highâ€doseâ€rate brachytherapy unit, a Monte Carloâ€based study. Medical Physics, 2020, 47, 693-702.	3.0	2
7	Hallâ€“Post inequalities: Review and application to molecules and tetraquarks. Annals of Physics, 2020, 412, 168009.	2.8	14
8	Model-Based Dose Calculation Algorithms for Brachytherapy Dosimetry. Seminars in Radiation Oncology, 2020, 30, 77-86.	2.2	18
9	Neutral baryonic systems with strangeness. International Journal of Modern Physics E, 2020, 29, 1930009.	1.0	1
10	Depth-dose measurement corrections for the surface electronic brachytherapy beams of an EsteyaÂ® unit: a Monte Carlo study. Physics in Medicine and Biology, 2020, 65, 245026.	3.0	2
11	Very Heavy Flavored Dibaryons. Physical Review Letters, 2020, 124, 212001.	7.8	21
12	quasibound state instead of Î›Î›nn bound state *. Chinese Physics C, 2020, 44, 024102.	3.7	2
13	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
14	Few-Body Insights of Multiquark Exotic Hadrons. Springer Proceedings in Physics, 2020, , 755-762.	0.2	1
15	Basics of doubly heavy tetraquarks. Journal of Physics: Conference Series, 2019, 1137, 012038.	0.4	0
16	Production of exotic tetraquarks <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi><mml:mi>Q</mml:mi><mml:mover accent="true"><mml:mi>q</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:mover accent="true"><mml:mi>q</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover></mml:math> in heavy-ion collisions at the LHC. Physical Review D, 2019, 99, .	4.7	22
17	Pentaquarks with anticharm or beauty revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 248-250.	4.1	14
18	A Monte Carloâ€based dosimetric characterization of Esteya^{Â®}, an electronic surface brachytherapy unit. Medical Physics, 2019, 46, 356-369.	3.0	5

#	Article	IF	Citations
19	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>b</mml:mi><mml:mi>c</mml:mi><mml:mover accent="true"><mml:mrow><mml:mi>q</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover><mml:mover accent="true"><mml:mrow><mml:mi>q</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:mrow></mml:math> four-quark states.	4.7	27
20	Calibration of a thermoluminescent dosimeter worn over lead aprons in fluoroscopy guided procedures. Journal of Radiological Protection, 2018, 38, 549-564.	1.1	3
21	Few-body quark dynamics for doubly heavy baryons and tetraquarks. Physical Review C, 2018, 97, .	2.9	72
22	Charmed baryons in nuclear matter. Physical Review D, 2018, 98, .	4.7	7
23	Peripheral dose around a mobile linac for intraoperative radiotherapy: radiation protection aspects. Journal of Radiological Protection, 2018, 38, 1393-1411.	1.1	3
24	Breaking Symmetry Effects on Heavy Tetraquarks. International Journal of Modern Physics Conference Series, 2018, 46, 1860036.	0.7	0
25	Stability of Heavy Tetraquarks. Few-Body Systems, 2018, 59, 1.	1.5	2
26	Correction factors for ionization chamber measurements with the â€˜Valenciaâ€™ and â€˜large field Valenciaâ€™ brachytherapy applicators. Physics in Medicine and Biology, 2018, 63, 125004.	3.0	2
27	Evaluation of the shielding in a treatment room with an electronic brachytherapy unit. Journal of Radiological Protection, 2017, 37, N5-N12.	1.1	5
28	Towards clinical application of RayStretch for heterogeneity corrections in LDR permanent 125 I prostate brachytherapy. Brachytherapy, 2017, 16, 616-623.	0.5	1
29	String dynamics and metastability of all-heavy tetraquarks. Physical Review D, 2017, 95, .	4.7	79
30	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
31	Stable heavy pentaquarks in constituent models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 710-714.	4.1	26
32	A generic TGâ€186 shielded applicator for commissioning modelâ€based dose calculation algorithms for highâ€doseâ€rate ¹⁹²Ir brachytherapy. Medical Physics, 2017, 44, 5961-5976.	3.0	34
33	Prescription Depth in Surface Skin Brachytherapy. Brachytherapy, 2017, 16, S50-S51.	0.5	2
34	Commissioning and quality assurance procedures for the HDR Valencia skin applicators. Journal of Contemporary Brachytherapy, 2016, 5, 441-447.	0.9	12
35	On the origin of the XYZ mesons. AIP Conference Proceedings, 2016, , .	0.4	0
36	Response to â€œComment on â€˜Comparison and uncertainty evaluation of different calibration protocols and ionization chambers for lowâ€energy surface brachytherapy dosimetryâ€™ â€•[Med. Phys. 42, 4954â€“4964 (2015)]. Medical Physics, 2016, 43, 2007-2008.	3.0	0

#	Article	IF	Citations
37	Design and characterization of a new highâ€doseâ€rate brachytherapy Valencia applicator for larger skin lesions. Medical Physics, 2016, 43, 1639-1648.	3.0	15
38	Transit dose comparisons for⁶⁰Co and¹⁹²Ir HDR sources. Journal of Radiological Protection, 2016, 36, 858-864.	1.1	2
39	Technical Note: Dosimetry of Leipzig and Valencia applicators without the plastic cap. Medical Physics, 2016, 43, 2087-2090.	3.0	17
40	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
41	Hadronic molecules with aDÂ¯meson in a medium. Physical Review D, 2016, 94, .	4.7	11
42	Study of CT/MRI mutual information based registration applied in brachytherapy. , 2016, , .		0
43	Doubly heavy baryon spectra guided by lattice QCD. Physical Review D, 2016, 94, .	4.7	10
44	Search for doubly-heavy dibaryons in a quark model. Physical Review D, 2016, 94, .	4.7	24
45	Maximal isospin few-body systems of nucleons and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Îž</mml:mi></mml:math>hyperons. Physical Review C, 2016, 94, .	2.9	12
46	Comparison and uncertainty evaluation of different calibration protocols and ionization chambers for lowâ€energy surface brachytherapy dosimetry. Medical Physics, 2015, 42, 4954-4964.	3.0	13
47	Commissioning and periodic tests of the EsteyaÂ® electronic brachytherapy system. Journal of Contemporary Brachytherapy, 2015, 2, 189-195.	0.9	17
48	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
49	Assaying multiple 125 I seeds with the well-ionization chamber SourceCheck 4ÏŁ 33005 and a new insert. Journal of Contemporary Brachytherapy, 2015, 6, 492-496.	0.9	3
50	A generic high-dose rate¹⁹²Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. Medical Physics, 2015, 42, 3048-3062.	3.0	64
51	Constituent-quark model description of triply heavy baryon nonperturbative lattice QCD data. Physical Review D, 2015, 91, .	4.7	24
52	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
53	Air-kerma evaluation at the maze entrance of HDR brachytherapy facilities. Journal of Radiological Protection, 2014, 34, 741-753.	1.1	1
54	Heavy-baryon quark model picture from lattice QCD. Physical Review D, 2014, 90, .	4.7	14

#	Article	IF	Citations
55	Multiquark Systems. Few-Body Systems, 2014, 55, 675-681.	1.5	0
56	Limitations of the TGâ€43 formalism for skin highâ€doseâ€rate brachytherapy dose calculations. Medical Physics, 2014, 41, 021703.	3.0	27
57	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
58	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
59	Heavy baryon spectroscopy with relativistic kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 288-295.	4.1	6
60	Too many Xâ€™s, Yâ€™s and Zâ€™s?. Few-Body Systems, 2013, 54, 1005-1009.	1.5	1
61	Stability of Multiquarks in an Improved Flip-Flop Model of Confinement. Few-Body Systems, 2013, 54, 1015-1018.	1.5	3
62	Heavy hadron spectroscopy: A quark model perspective. Nuclear Physics A, 2013, 914, 472-481.	1.5	2
63	Monte Carlo dosimetric study of the medium dose rate CSM40 source. Applied Radiation and Isotopes, 2013, 82, 283-288.	1.5	9
64	HEAVY HADRON SPECTROSCOPY: A QUARK MODEL PERSPECTIVE. International Journal of Modern Physics E, 2013, 22, 1330011.	1.0	19
65	Adiabaticity and color mixing in tetraquark spectroscopy. Physical Review D, 2013, 87, .	4.7	18
66	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
67	Stability of hexaquarks in the string limit of confinement. Physical Review D, 2012, 85, .	4.7	22
68	Monte Carlo dosimetric study of the Flexisource Co-60 high dose rate source. Journal of Contemporary Brachytherapy, 2012, 1, 34-44.	0.9	25
69	Too many XÊ¼s, YÊ¼s and ZÊ¼s?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 358-361.	4.1	24
70	Hunting exotics. , 2012, , .		0
71	Dosimetry revisited for the HDR brachytherapy source model mHDRâ€v2. Medical Physics, 2011, 38, 487-494.	3.0	75
72	CHARMONIUM: X(3872) AND BEYOND. International Journal of Modern Physics Conference Series, 2011, 02, 20-24.	0.7	1

#	Article	IF	Citations
73	DOUBLY CHARMED MESONS. International Journal of Modern Physics Conference Series, 2011, 02, 173-177.	0.7	7
74	Quark-model study of the hadron structure and the hadron-hadron interaction. Journal of Physics: Conference Series, 2011, 322, 012015.	0.4	0
75	Double Charmed and Charmless Four-Quark States. Few-Body Systems, 2011, 50, 195-198.	1.5	4
76	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
77	ON THE NATURE OF THE X(3872). International Journal of Modern Physics A, 2011, 26, 570-572.	1.5	1
78	Baryon Resonances. Nuclear Physics A, 2010, 835, 271-278.	1.5	5
79	Unveiling charmonium molecules. , 2010, , .		0
80	Molecular and compact four-quark states. Chinese Physics C, 2010, 34, 1290-1293.	3.7	2
81	Charmonium molecules?. , 2010, , .		0
82	Meson-Meson molecules and compact four-quark states. , 2010, , .		1
83	Vector baryon interaction and dynamically generated resonances. , 2010, , .		1
84	Hidden and open charm meson spectrum. , 2010, , .		0
85	Charged charmonium molecules. Physical Review D, 2010, 82, .	4.7	14
86	Tetraquark Spectroscopy: A Symmetry Analysis. Symmetry, 2009, 1, 155-179.	2.2	27
87	Topological charge selection rule for phase singularities. Physical Review A, 2009, 80, .	2.5	11
88	Charmonium Spectroscopy above Thresholds. Physical Review Letters, 2009, 103, 222001.	7.8	61
89	Explanation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mo>Î”</mml:mo><mml:mrow><mml:mn>5</mml:mn><mml:mo>/</mml:mo><mml:m stretchy="false">(</mml:mo><mml:mn>1930</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 Td (stretchy="fa xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î</mml:mi><mml:mo>Î”</mml:mo. Physical Review C, 2009, 79, .	2.9	46
90	Probabilities in nonorthogonal bases: Four-quark systems. Physical Review C, 2009, 80, .	2.9	33

#	Article	IF	Citations
91	An explanation of the Î” D 35 (1930) as a ÏƒÎ” bound state. Chinese Physics C, 2009, 33, 1267-1272.	3.7	0
92	Dynamically generated resonances. Chinese Physics C, 2009, 33, 1132-1139.	3.7	1
93	Four-Quark Stability. Few-Body Systems, 2009, 45, 99-103.	1.5	10
94	The <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	4.1	6
95	Screened potential and quarkonia properties at high temperatures. European Physical Journal A, 2009, 40, 89-97.	2.5	6
96	Multiquark description of theDsJ(2860)andDsJ(2700). Physical Review D, 2009, 79, .	4.7	22
97	Exotic meson-meson molecules and compact four-quark states. Physical Review D, 2009, 79, .	4.7	91
98	Angular pseudomomentum theory for the generalized nonlinear SchrÃ¶dinger equation in discrete rotational symmetry media. Physica D: Nonlinear Phenomena, 2009, 238, 1432-1438.	2.8	18
99	A topological charge selection rule for phase singularities. , 2009, , .		0
100	Quark-model hadron structure. Few-Body Systems, 2008, 43, 233-239.	1.5	0
101	On the existence of exotic and non-exotic multiquark meson states. Few-Body Systems, 2008, 44, 99-101.	1.5	0
102	Towards an understanding of heavy baryon spectroscopy. European Physical Journal A, 2008, 37, 217-225.	2.5	157
103	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math>meson spectroscopy. Physical Review D, 2008, 77, .	4.7	24
104	Hadron physics: a quark-model analysis. AIP Conference Proceedings, 2008, , .	0.4	0
105	Recent issues in heavy-light meson spectroscopy. AIP Conference Proceedings, 2008, , .	0.4	0
106	Meson-baryon threshold effects in the light-quark baryon spectrum. Physical Review C, 2008, 77, .	2.9	11
107	HYPERSPHERICAL HARMONIC FORMALISM FOR TETRAQUARKS. International Journal of Modern Physics A, 2007, 22, 561-565.	1.5	9
108	UNDERSTANDING OPEN-CHARM MESONS. International Journal of Modern Physics A, 2007, 22, 550-554.	1.5	1

#	Article	IF	Citations
109	Faddeev study of heavy-baryon spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 961-976.	3.6	137
110	Stability of multiquarks in a simple string model. Physical Review D, 2007, 76, .	4.7	84
111	Are there compact heavy four-quark bound states?. Physical Review D, 2007, 76, .	4.7	64
112	Do<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>c</mml:mi><mml:mover accent="true"><mml:mi>c</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>n</mml:mi><mml:mover accent="true"><mml:mi>n</mml:mi><mml:mo>Â¯</mml:mo></mml:mover></mml:math>bound states exist?. Physical Review D, 2007, 76, .	4.7	42
113	Multiquark structures in heavy-light meson systems. Nuclear Physics A, 2007, 790, 506c-509c.	1.5	3
114	A SU(4)âŠ—O(3) scheme for nonstrange baryons. European Physical Journal A, 2007, 31, 515-518.	2.5	2
115	The puzzle of the D and Ds mesons. European Physical Journal A, 2007, 31, 722-724.	2.5	1
116	Hyperspherical harmonic study of identical-flavor four-quark systems. Nuclear Physics A, 2007, 790, 542c-545c.	1.5	4
117	Symmetry patterns in the (N, Î”) spectrum. Nuclear Physics A, 2007, 790, 550c-553c.	1.5	0
118	A SU(4) (âŠ—) O(3) scheme for nonstrange baryons. , 2007, , 147-150.		0
119	The puzzle of the D and Ds mesons. , 2007, , 415-417.		0
120	Dynamical study ofQQâ€“uÂ¯dÂ¯mesons. Physical Review D, 2006, 74, .	4.7	41
121	Four-quark spectroscopy within the hyperspherical formalism. Physical Review D, 2006, 73, .	4.7	112
122	Open-charm meson spectroscopy. Physical Review D, 2006, 73, .	4.7	57
123	Spectral patterns in the nonstrange-baryon spectrum. European Physical Journal A, 2006, 29, 235-244.	2.5	8
124	Spectroscopy of doubly charmed baryons. AIP Conference Proceedings, 2006, , .	0.4	0
125	Recent results on charm spectroscopy. AIP Conference Proceedings, 2006, , .	0.4	0
126	Scalar Mesons As A Mixing Of Two And Four Quark States. AIP Conference Proceedings, 2006, , .	0.4	1

#	Article	IF	Citations
127	Scalar Mesons and the Valence Quark Model. AIP Conference Proceedings, 2006, , .	0.4	0
128	The meson spectra beyond a qq̀„ description. AIP Conference Proceedings, 2005, , .	0.4	0
129	The nature of the light scalar mesons. AIP Conference Proceedings, 2005, , .	0.4	0
130	Constituent quark model study of light- and strange-baryon spectra. Physical Review C, 2005, 72, .	2.9	63
131	DESCRIBING NON-$Qar{Q}$ CANDIDATES. International Journal of Modern Physics A, 2005, 20, 702-704.	1.5	11
132	TOWARDS THE UNDERSTANDING OF THE MESON SPECTRA. International Journal of Modern Physics A, 2005, 20, 622-624.	1.5	1
133	$bar b$ DESCRIPTION WITH A SCREENED POTENTIAL. International Journal of Modern Physics A, 2005, 20, 1842-1845.	1.5	5
134	Nature of the light scalar mesons. Physical Review D, 2005, 72, .	4.7	69
135	Constituent quark model study of the meson spectra. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 481-506.	3.6	302
136	Screened potential and the baryon spectrum. Physical Review D, 2004, 69, .	4.7	27
137	Spectroscopy of doubly charmed baryons. Physical Review D, 2004, 70, .	4.7	75
138	Tetraquarks in a chiral constituent-quark model. European Physical Journal A, 2004, 19, 383-389.	2.5	91
139	Heavy meson description with a screened potential. Physical Review D, 2003, 68, .	4.7	42