

Manuel Fiolhais

List of Publications by Year in descending order

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95
papers

1,256
citations

471509

17
h-index

395702

33
g-index

97
all docs

97
docs citations

97
times ranked

456
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical apparatus for the fold catastrophe demonstration. European Journal of Physics, 2021, 42, 045001.	0.6	1
2	Four-vector description of the photon-in-a-box problem. European Journal of Physics, 2019, 40, 025601.	0.6	4
3	Modelling meson clouds using coherent states. Journal of Physics: Conference Series, 2019, 1391, 012061.	0.4	0
4	Principles of time evolution in classical physics. European Journal of Physics, 2018, 39, 045010.	0.6	5
5	Relativistic solar sails. European Journal of Physics, 2018, 39, 035601.	0.6	4
6	Relativistic rotation "how does the energy vary with angular momentum?". Journal of Physics: Conference Series, 2018, 1141, 012131.	0.4	4
7	Relativistic description of the photoelectric effect. American Journal of Physics, 2018, 86, 825-830.	0.7	4
8	Relativistic rotation dynamics "Formalism and examples. Europhysics Letters, 2017, 119, 10001.	2.0	10
9	The principle of relativity and the de Broglie relation. American Journal of Physics, 2016, 84, 443-447.	0.7	9
10	Dissipation effects in mechanics and thermodynamics. European Journal of Physics, 2016, 37, 045101.	0.6	5
11	Relativistic mechanical "thermodynamical formalism" description of inelastic collisions. European Journal of Physics, 2016, 37, 015602.	0.6	8
12	"Walking" Along a Free Rotating Bicycle Wheel (Round and Round). Physics Teacher, 2015, 53, 90-92.	0.3	0
13	On the work of internal forces. European Journal of Physics, 2015, 36, 045008.	0.6	0
14	Relativistic pseudospin and spin symmetries in physical systems "recent results. Journal of Physics: Conference Series, 2014, 490, 012069.	0.4	7
15	Thermodynamical asymmetries in whirling, jumping and walking. European Journal of Physics, 2014, 35, 035008.	0.6	4
16	Thermodynamics in rotating systems "analysis of selected examples. European Journal of Physics, 2014, 35, 015013.	0.6	6
17	The physics of articulated toys "a jumping and rotating kangaroo. European Journal of Physics, 2014, 35, 045018.	0.6	1
18	Forces on wheels and fuel consumption in cars. European Journal of Physics, 2013, 34, 1005-1013.	0.6	17

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19	From mechanics to thermodynamicsâ€™ analysis of selected examples. European Journal of Physics, 2013, 34, 345-357.	0.6	17
20	The physics of a walking robot. Physics Education, 2013, 48, 455-458.	0.5	8
21	A 4-vector formalism for classical mechanics. Revista Brasileira De Ensino De Fisica, 2013, 35, 1-13.	0.2	2
22	Pion Electro-Production in the Region of Low-Lying P11 and S11 Resonances. Few-Body Systems, 2011, 50, 355-358.	1.5	0
23	Quarks stars in SU(2) Nambu-Jona-Lasinio model with vector coupling. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 325-328.	0.4	6
24	Color Superconductivity and Confinement in the Chromodielectric Model. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 308-313.	0.4	0
25	INVESTIGATION OF THE EXISTENCE OF HYBRID STARS USING NAMBUâ€™JONAâ€™LASINIO MODELS. International Journal of Modern Physics D, 2010, 19, 1521-1524.	2.1	14
26	Spin and pseudospin symmetries in the antinucleon spectrum of nuclei. Physical Review C, 2010, 81, .	2.9	53
27	THE EFFECT OF CONFINEMENT ON THE CFL QUARK PAIRING IN THE CHROMODIELECTRIC MODEL. International Journal of Modern Physics D, 2010, 19, 1737-1741.	2.1	0
28	Toys in physics lectures and demonstrationsâ€™ a brief review. Physics Education, 2009, 44, 53-64.	0.5	36
29	Pion electro-production in the Roper region in chiral quark models. European Physical Journal A, 2009, 42, 185.	2.5	20
30	Physics of the fire piston and the fog bottle. European Journal of Physics, 2007, 28, 1199-1205.	0.6	10
31	Center-of-mass correction in a relativistic Hartree approximation including meson degrees of freedom. Physical Review C, 2007, 75, .	2.9	2
32	Color superconductivity and quark stars. Nuclear Physics A, 2007, 790, 562c-565c.	1.5	5
33	The color flavor locked phase in the chromodielectric model and quark stars. Brazilian Journal of Physics, 2006, 36, 1391-1396.	1.4	11
34	Center-of-mass correction in a relativistic Hartree approximation. Brazilian Journal of Physics, 2006, 36, 1375-1378.	1.4	2
35	Direct calculation of the K-matrix for pion electro-production in the delta channel. European Physical Journal A, 2005, 26, 99-106.	2.5	5
36	Quantitative experiments on supersaturated solutions for the undergraduate thermodynamics laboratory. European Journal of Physics, 2005, 26, 25-31.	0.6	2

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37	PEIERLSâ€™ YOCCOZ PROJECTION IN $\bar{u}d$ MODELS. International Journal of Modern Physics E, 2005, 14, 1171-1196.	1.0	3
38	PERTURBATIVE BREAKING OF THE PSEUDOSPIN SYMMETRY IN THE RELATIVISTIC HARMONIC OSCILLATOR. International Journal of Modern Physics D, 2004, 13, 1447-1451.	2.1	21
39	Electroweak amplitudes in chiral quark models. AIP Conference Proceedings, 2004, , .	0.4	0
40	Medium modification of nucleon properties in a Walecka â€™ Linear Sigma Model description. AIP Conference Proceedings, 2004, , .	0.4	0
41	Superconducting quark matter in the Chromodielectric Model. AIP Conference Proceedings, 2004, , .	0.4	0
42	Harmonic oscillator and nuclear pseudospin. AIP Conference Proceedings, 2004, , .	0.4	0
43	A Big Sunbird. Physics Teacher, 2004, 42, 307-309.	0.3	1
44	Pseudospin symmetry and the relativistic harmonic oscillator. Physical Review C, 2004, 69, .	2.9	217
45	Axial amplitudes for $\hat{\pi}$ excitation in chiral quark models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 553, 51-60.	4.1	10
46	Metastable strange matter and compact quark stars. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 1045-1051.	3.6	30
47	Cylinder on an incline as a fold catastrophe system. European Journal of Physics, 2003, 24, 115-123.	0.6	3
48	Experiments with the drinking bird. American Journal of Physics, 2003, 71, 1257-1263.	0.7	23
49	Experiments with a sunbird. American Journal of Physics, 2003, 71, 1264-1267.	0.7	2
50	A Demonstration Apparatus for the Cartesian Diver. Physics Teacher, 2003, 41, 495-496.	0.3	5
51	CENTER-OF-MASS CORRECTIONS IN RELATIVISTIC MEAN FIELD DESCRIPTIONS OF LIGHT NUCLEI. , 2003, , .		0
52	STABILITY OF QUARK MATTER AND QUARK STARS. , 2003, , .		1
53	RADIAL EXCITED STATES OF THE NUCLEON IN QUARK MODELS WITH DYNAMICAL CONFINEMENT. , 2003, , .		0
54	DYNAMICAL NATURE OF THE NUCLEAR PSEUDOSPIN AND ITS ISOSPIN ASYMMETRY. , 2003, , .		0

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55	Sadi Carnot on Carnot's theorem. American Journal of Physics, 2002, 70, 42-47.	0.7	4
56	Pseudospin symmetry as a relativistic dynamical symmetry in the nucleus. Physical Review C, 2002, 65, .	2.9	98
57	Energetics of charge distributions. European Journal of Physics, 2002, 23, 427-431.	0.6	8
58	Revisiting Black's experiments on the latent heats of water. Physics Teacher, 2002, 40, 26-31.	0.3	12
59	Reproducing Black's experiments: freezing point depression and supercooling of water. European Journal of Physics, 2002, 23, 83-91.	0.6	9
60	The Cartesian diver and the fold catastrophe. American Journal of Physics, 2002, 70, 710-714.	0.7	16
61	Small Quark Stars in the Chromodielectric Model. AIP Conference Proceedings, 2002, , .	0.4	0
62	ROPER ELECTROPRODUCTION AMPLITUDES IN A CHIRAL CONFINEMENT MODEL. , 2002, , .		0
63	Rolling cylinder on a horizontal plane. Physics Education, 2001, 36, 250-254.	0.5	28
64	N^* electroproduction amplitudes in a model with dynamical confinement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 273-279.	4.1	15
65	Isospin Asymmetry in the Pseudospin Dynamical Symmetry. Physical Review Letters, 2001, 86, 5015-5018.	7.8	101
66	RECOIL EFFECTS IN THE ELECTROPRODUCTION OF THE DELTA. , 2001, , .		0
67	The electroproduction of the $\hat{\rho}^*(1232)$ in the chiral quark-soliton model. Nuclear Physics A, 2000, 675, 637-657.	1.5	20
68	E2M1 and C2M1 for the electroproduction of the $\hat{\rho}^*(1232)$ in the chiral quark-soliton model. Progress in Particle and Nuclear Physics, 2000, 44, 211-212.	14.4	2
69	Equivalence of thermodynamical fundamental equations. European Journal of Physics, 2000, 21, 395-404.	0.6	4
70	$\hat{\rho}^*(1232)$ electroproduction amplitudes in chiral soliton models of the nucleon. Physical Review C, 2000, 62, .	2.9	11
71	COMPARISON OF APPROXIMATE AND ACCURATE METHODS IN QUARK-PION MODELS. International Journal of Modern Physics A, 1999, 14, 731-759.	1.5	3
72	Thermodynamics at work: The pressure derivative of the specific heat. American Journal of Physics, 1999, 67, 1100-1104.	0.7	3

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73	On the relativistic L - S coupling. European Journal of Physics, 1998, 19, 553-562.	0.6	13
74	Soliton formation in \tilde{f} models. Physical Review C, 1997, 56, 3311-3319.	2.9	4
75	Counting pions in the nucleon. Progress in Particle and Nuclear Physics, 1996, 36, 151-159.	14.4	0
76	The role of the pion cloud in electroproduction of the $\tilde{N}^*(1232)$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 373, 229-234.	4.1	38
77	Recoil effects on nucleon electromagnetic form factors. Nuclear Physics A, 1996, 609, 488-500.	1.5	9
78	Quark matter in the chiral color-dielectric model. Nuclear Physics A, 1995, 588, 801-818.	1.5	26
79	Virial theorems for the pion cloud in one-radial-mode models. Journal of Physics G: Nuclear and Particle Physics, 1995, 21, 1657-1664.	3.6	2
80	On the Hadronic Neutron-Proton Mass Splitting in Chiral Soliton Models of Valence Quarks. Europhysics Letters, 1994, 25, 571-577.	2.0	0
81	Nucleon form factors in a projected chiral soliton model with dynamical confinement. Nuclear Physics A, 1994, 570, 782-796.	1.5	6
82	Quark dynamics and spin structure in the chiral chromodielectric model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 433-436.	4.1	11
83	Many-Body Physics. , 1994, , .		1
84	Nucleon description in a projected chiral soliton model with dynamical confinement. Nuclear Physics A, 1993, 560, 909-944.	1.5	30
85	Analysis of the projected hedgehog approximation for quarks and mesons. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, 49-74.	3.6	12
86	Linear and angular momentum projected observables in the chiral chromodielectric model of the nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 1-5.	4.1	9
87	Neutron-proton mass difference in a baryonic medium and the Nolen-Schiffer anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 269, 43-48.	4.1	10
88	Medium effects on \tilde{N}^* properties and $N-\tilde{N}^*$ transition form factors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 333-340.	4.1	7
89	Form factors in the projected linear chiral sigma model. Zeitschrift für Physik A, Atomic Nuclei, 1990, 336, 449-460.	0.3	3
90	The nucleon as a projected chiral soliton: Vacuum and medium properties. Progress in Particle and Nuclear Physics, 1990, 24, 283-302.	14.4	1

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91	The generalized hedgehog and the projected chiral soliton model. Nuclear Physics A, 1988, 481, 727-764.	1.5	52
92	Nucleon form factors in the projected linear chiral soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 208, 75-78.	4.1	40
93	The Goldberger-Treiman relation and the chiral soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 194, 187-191.	4.1	17
94	The hedgehog baryon as a variational mean field solution of the spherical linear chiral soliton model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 164, 249-252.	4.1	13
95	On the Hedgehog solution for the chiral bag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 150, 253-255.	4.1	20