Manuel Malheiro

List of Publications by Year
in descending order

136	2,955	159358	174990
papers	citations	30 h-index	52 g-index

138	138	138	916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pseudospin symmetry and the relativistic harmonic oscillator. Physical Review C, 2004, 69, .	1.1	217
2	Stellar equilibrium configurations of compact stars inf(R,T) theory of gravity. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 005-005.	1.9	216
3	Electrically charged compact stars and formation of charged black holes. Physical Review D, 2003, 68, .	1.6	206
4	Electrically charged strange quark stars. Physical Review D, 2009, 80, .	1.6	129
5	Tensor coupling and pseudospin symmetry in nuclei. Physical Review C, 2005, 71, .	1.1	113
6	Isospin Asymmetry in the Pseudospin Dynamical Symmetry. Physical Review Letters, 2001, 86, 5015-5018.	2.9	101
7	Pseudospin symmetry as a relativistic dynamical symmetry in the nucleus. Physical Review C, 2002, 65, .	1.1	98
8	Relating pseudospin and spin symmetries through charge conjugation and chiral transformations: The case of the relativistic harmonic oscillator. Physical Review C, 2006, 73, .	1.1	98
9	gravitational waves II.<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo>,</mml:mo><mml:mi>T</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>f</mml:mi><mml:mo		

#	Article	IF	Citations
19	Nucleon polarizabilities from low-energy Compton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 567, 200-206.	1.5	42
20	Spin and pseudospin symmetries and the equivalent spectra of relativistic spin-1/2 and spin-0 particles. Physical Review C, 2007, 75, .	1.1	42
21	THE IMPORTANCE OF THE RELATIVISTIC CORRECTIONS IN HYPERON STARS. International Journal of Modern Physics D, 2004, 13, 1355-1359.	0.9	38
22	Spin and pseudospin symmetries of the Dirac equation with confining central potentials. Physical Review C, 2013, 87, .	1.1	37
23	DYNAMICAL INSTABILITY OF WHITE DWARFS AND BREAKING OF SPHERICAL SYMMETRY UNDER THE PRESENCE OF EXTREME MAGNETIC FIELDS. Astrophysical Journal, 2014, 794, 86.	1.6	36
24	General relativistic effects in the structure of massive white dwarfs. General Relativity and Gravitation, 2018, 50, 1.	0.7	35
25	Strange asymmetries in the nucleon sea. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 451, 224-232.	1.5	34
26	Magnetic dipole moment of soft gamma-ray repeaters and anomalous X-ray pulsars described as massive and magnetic white dwarfs. Publication of the Astronomical Society of Japan, 2014, 66, .	1.0	33
27	Compton scattering on the deuteron in baryon chiral perturbation theory. Nuclear Physics A, 1999, 656, 367-399.	0.6	32
28	Vector interaction strength in Polyakovâ€“Nambuâ€“Jona-Lasinio models from hadron-quark phase diagrams. Physical Review D, 2012, 85, .	1.6	32
29	Relativistic nuclear matter with alternative derivative coupling models. Physical Review C, 1995, 51, 2188-2195.	1.1	31
30	Nuclear matter properties for modified Zimanyi-Moszkowski models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 345, 361-366.	1.5	30
31	Phase transition in warm nuclear matter with alternative derivative coupling models. Physical Review C, 1998, 58, 426-433.	1.1	30
32	Metastable strange matter and compact quark stars. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 1045-1051.	1.4	30
33	ULTRA-DENSE NEUTRON STAR MATTER, STRANGE QUARK STARS, AND THE NUCLEAR EQUATION OF STATE. International Journal of Modern Physics E, 2007, 16, 1165-1180.	0.4	29
34	Hadron production in non-linear relativistic mean field models. Nuclear Physics A, 2009, 826, 178-189.	0.6	28
35	Role of the Coulomb and the vector-isovector ï•potentials in the isospin asymmetry of nuclear pseudospin. Physical Review C, 2003, 67, .	1.1	26
36	Hadron-quark phase transition in a hadronic and Polyakovâ€“Nambuâ€“Jona-Lasinio models perspective. Physical Review D, 2011, 84, .	1.6	26

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37	A conservative energy-momentum tensor in the f(R,T) gravity and its implications for the phenomenology of neutron stars. European Physical Journal Plus, 2019, 134, 1.	1.2	24
38	Dirac-Hartree-Bogoliubov calculation for spherical and deformed hot nuclei: Temperature dependence of the pairing energy and gaps, nuclear deformation, nuclear radii, excitation energy, and entropy. Physical Review C, 2016, 93, .	1.1	22
39	Finite nuclei in a relativistic mean-field model with derivative couplings. Zeitschrift FÃ¼r Physik A, 1997, 357, 47-52.	0.9	21
40	PERTURBATIVE BREAKING OF THE PSEUDOSPIN SYMMETRY IN THE RELATIVISTIC HARMONIC OSCILLATOR. International Journal of Modern Physics D, 2004, 13, 1447-1451.	0.9	21
41	Polyakovâ€“Nambuâ€“Jona-Lasinio phase diagrams and quarkyonic phase from order parameters. Physical Review D, 2013, 88, .	1.6	21
42	Decoupling of quark condensate from the effective nucleon mass at high density (Ï±) and temperature (T). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 363, 17-23.	1.5	19
43	Strongly Magnetized White Dwarfs and Their Instability Due to Nuclear Processes. Astrophysical Journal, 2019, 879, 46.	1.6	19
44	OF CHARGED STARS AND CHARGED BLACK HOLES. International Journal of Modern Physics D, 2004, 13, 1375-1379.	0.9	18
45	Magnetars and white dwarf pulsars. International Journal of Modern Physics D, 2016, 25, 1641025.	0.9	18
46	The Effects of Charge On The Structure of Strange Stars. Journal of Physics: Conference Series, 2011, 312, 042018.	0.3	16
47	Nuclear processes in astrophysics: Recent progress. European Physical Journal A, 2018, 54, 1.	1.0	16
48	Constraining relativistic models through heavy ion collisions. Physical Review C, 2007, 76, .	1.1	14
49	INVESTIGATION OF THE EXISTENCE OF HYBRID STARS USING NAMBUâ€“JONAâ€“LASINIO MODELS. International Journal of Modern Physics D, 2010, 19, 1521-1524.	0.9	14
50	The rotation-powered nature of some soft gamma-ray repeaters and anomalous X-ray pulsars. Astronomy and Astrophysics, 2017, 599, A87.	2.1	14
51	White dwarfs with a surface electrical charge distribution: equilibrium and stability. European Physical Journal C, 2018, 78, 1.	1.4	14
52	Is There an Enhancement of Muons at Sea Level from Transient Events?. Astrophysical Journal, 2005, 621, 1137-1145.	1.6	12
53	Mass-Radius diagram for compact stars. Journal of Physics: Conference Series, 2015, 630, 012058.	0.3	12
54	Hydrostatic equilibrium configurations of neutron stars in a non-minimal geometry-matter coupling theory of gravity. European Physical Journal C, 2020, 80, 1.	1.4	12

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55	The color flavor locked phase in the chromodielectric model and quark stars. Brazilian Journal of Physics, 2006, 36, 1391-1396.	0.7	11
56	A Magnetic White Dwarf Accretion Model for the Anomalous X-Ray Pulsar 4U 0142+61. Astrophysical Journal, 2020, 895, 26.	1.6	11
57	NEUTRON STARS WITH PARAMETRIZED MESON COUPLINGS. Modern Physics Letters A, 2000, 15, 1789-1800.	0.5	10
58	RELATIVISTIC EFFECTS IN POLYTROPIC COMPACT STARS. International Journal of Modern Physics E, 2007, 16, 2834-2837.	0.4	10
59	Stability of charged strange quark stars. AIP Conference Proceedings, 2015, , .	0.3	10
60	Particle acceleration and radio emission for SGRs/AXPs as white dwarf pulsars. Journal of Physics: Conference Series, 2015, 630, 012015.	0.3	10
61	Derivative-coupling models and the nuclear-matter equation of state. Zeitschrift FÃ¼r Physik A, 1996, 355, 145-150.	0.9	9
62	General spin and pseudospin symmetries of the Dirac equation. Physical Review A, 2015, 92, .	1.0	9
63	Connection between the nuclear matter mean-field equation of state and the quark and gluon condensates at high density. Physical Review C, 1997, 55, 521-524.	1.1	8
64	The nuclear pseudospin symmetry along an isotopic chain. Brazilian Journal of Physics, 2004, 34, 293-296.	0.7	8
65	A POLYTROPIC APPROACH TO NEUTRON STARS. International Journal of Modern Physics D, 2010, 19, 1569-1574.	0.9	8
66	Study of the charged super-Chandrasekhar limiting mass white dwarfs in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo>,</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td (math gravity. Physical Review D, 2020, 101.	1.6	8
67	GENERAL RELATIVISTIC EFFECTS OF STRONG MAGNETIC FIELDS ON THE GRAVITATIONAL FORCE: A DRIVING ENGINE FOR BURSTS OF GAMMA RAYS IN SGRS?. International Journal of Modern Physics D, 2007, 16, 489-499.	0.9	7
68	Relativistic pseudospin and spin symmetries in physical systems â€“ recent results. Journal of Physics: Conference Series, 2014, 490, 012069.	0.3	7
69	Extra dimensionsâ€™ influence on the equilibrium and radial stability of strange quark stars. Physical Review D, 2019, 100, .	1.6	7
70	How reliable is the mean-field nuclear matter description for supporting chiral effective Lagrangians?. Brazilian Journal of Physics, 2001, 31, 518-520.	0.7	7
71	Hadronic entropy enhancement and low density QGP. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2249-2258.	1.4	6
72	THE EFFECT OF TEMPERATURE IN SPHERICAL AND DEFORMED NUCLEI IN THE DHB APPROXIMATION. International Journal of Modern Physics E, 2007, 16, 3032-3036.	0.4	6

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73	Quarks stars in SU(2) Nambu-Jona-Lasinio model with vector coupling. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 325-328.	0.5	6
74	Color superconductivity and quark stars. Nuclear Physics A, 2007, 790, 562c-565c.	0.6	5
75	The model of Nambu and Jona-Lasinio (NJL) using the Î²-deformed PoincarÃ© algebra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 348, 417-420.	1.5	4
76	Nucleon strange magnetic moment and relativistic covariance. Physical Review C, 1997, 56, R2373-R2377.	1.1	4
77	The role of the temperature errors in DSC scans on the prediction of the average density of nuclei in polymers crystallized under quiescent conditions. Thermochimica Acta, 2002, 391, 97-106.	1.2	4
78	CHARGED POLYTROPIC STARS AND A GENERALIZATION OF LANEâ€“EMDEN EQUATION. International Journal of Modern Physics D, 2004, 13, 1441-1445.	0.9	4
79	Approximate analytical solution for nuclear matter in a mean-field Walecka model and Coester line behavior. Physical Review C, 2006, 73, .	1.1	4
80	CHARGED RELATIVISTIC STARS AND THE ANISOTROPIC FORMALISM. International Journal of Modern Physics D, 2007, 16, 303-311.	0.9	4
81	The effects of temperature on finite nuclei. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 345-348.	0.5	4
82	Temperature effects on nuclear pseudospin symmetry in the Dirac-Hartree-Bogoliubov formalism. Physical Review C, 2017, 96, .	1.1	4
83	Gravastar model in Randallâ€“Sundrum braneworld. Classical and Quantum Gravity, 2019, 36, 235012.	1.5	4
84	NUCLEON SIGMA TERM AND IN-MEDIUM QUARK CONDENSATE IN THE MODIFIED Quarkâ€“MESON COUPLING MODEL. Modern Physics Letters A, 1999, 14, 289-297.	0.5	3
85	The Coester line in relativistic mean field nuclear matter. Brazilian Journal of Physics, 2005, 35, 190-196.	0.7	3
86	Determination of the neutron star mass-radii relation using narrow-band gravitational wave detector. Journal of Physics: Conference Series, 2009, 154, 012039.	0.3	3
87	Radio pulsar death lines to SGRs/AXPs and white dwarfs pulsars. AIP Conference Proceedings, 2015, , .	0.3	3
88	Generalizing spin and pseudospin symmetries for relativistic spin 1/2 fermions. Journal of Physics: Conference Series, 2016, 738, 012033.	0.3	3
89	On some Aspects of Gravitomagnetism and Correction for Perihelion Advance. Journal of Physics: Conference Series, 2016, 706, 052014.	0.3	3
90	Ultra-high energy cosmic rays from white dwarf pulsars and the Hillas criterion. Journal of Physics: Conference Series, 2017, 861, 012005.	0.3	3

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91	Fluid pulsation modes from strange stars in a higher-dimensional spacetime. Physical Review D, 2020, 102, .	1.6	3
92	SGRs and AXPs as white dwarf pulsars. , 2013, , .		2
93	Mass-Radius Relation for White Dwarfs Models at Zero Temperature. Journal of Physics: Conference Series, 2016, 706, 052016.	0.3	2
94	SGRs/AXPs as white dwarf pulsars: Sources of ultra-high energetic photons with E â^¼ 1021 eV. , 2017, , .		2
95	MESONIC EXCITATIONS IN THE LINEAR SIGMA MODEL. International Journal of Modern Physics A, 1993, 08, 787-807.	0.5	1
96	Derivative-coupling models and the nuclear-matter equation of state. Zeitschrift FÃ¼r Physik A, 1996, 355, 145-150.	0.9	1
97	DO SGRs/AXPs AND RADIO AXPs HAVE THE SAME NATURE?. , 2015, , .		1
98	Analysis of the properties of SGRs and AXPs with realistic neutron star configurations. AIP Conference Proceedings, 2015, , .	0.3	1
99	The importance of GR for the radius of massive white dwarfs. AIP Conference Proceedings, 2015, , .	0.3	1
100	Gravitomagnetic correction for perihelion advance. AIP Conference Proceedings, 2015, , .	0.3	1
101	Strong magnetic fields and SGRs/AXPs as white dwarf pulsar: a source of ultra-high energy cosmic rays. Journal of Physics: Conference Series, 2016, 706, 052032.	0.3	1
102	The Gravitomagnetism in the Solar System. International Journal of Modern Physics Conference Series, 2017, 45, 1760052.	0.7	1
103	SGRs/AXPs as Rotation-Powered Neutron Stars. International Journal of Modern Physics Conference Series, 2017, 45, 1760030.	0.7	1
104	Relevance of Dynamical Nuclear Processes in Quantum Complex Systems of Massive White Dwarfs. Brazilian Journal of Physics, 2021, 51, 223-230.	0.7	1
105	ELECTRICALLY CHARGED COMPACT STARS. , 2006, , .		1
106	STABILITY OF QUARK MATTER AND QUARK STARS. , 2003, , .		1
107	Nuclear Matter Properties in Derivative Coupling Models Beyond Mean-Field Approximation. Brazilian Journal of Physics, 1997, 27, .	0.7	1
108	Ultra-magnetized white dwarfs are stable?. , 2017, , .		1

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109	Superconducting quark matter in the Chromodielectric Model. AIP Conference Proceedings, 2004, , .	0.3	0
110	Harmonic oscillator and nuclear pseudospin. AIP Conference Proceedings, 2004, , .	0.3	0
111	Bounded solutions for nonconserving-parity pseudoscalar potentials. AIP Conference Proceedings, 2004, , .	0.3	0
112	The Effect of a Radial Electric Field in The Structure of a Polytropic Star. AIP Conference Proceedings, 2004, , .	0.3	0
113	The effect of temperature and pairing on nuclear pseudospin symmetry. , 2009, , .		0
114	Antinucleon spectra in the Dirac equation with scalar and vector Wood-Saxon potentials. , 2009, , .		0
115	Title is missing!. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 1-2.	0.5	0
116	Color Superconductivity and Confinement in the Chromodielectric Model. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 308-313.	0.5	0
117	CHARGE INFLUENCE ON MINI BLACK HOLE'S CROSS SECTION. International Journal of Modern Physics D, 2010, 19, 1265-1269.	0.9	0
118	THE EFFECT OF CONFINEMENT ON THE CFL QUARK PAIRING IN THE CHROMODIELECTRIC MODEL. International Journal of Modern Physics D, 2010, 19, 1737-1741.	0.9	0
119	NEUTRON STAR MASS CORRELATION WITH SOUND VELOCITY AND INCOMPRESSIBILITY AT THE STAR CENTER IN THE POLYTROPIC APPROXIMATION. International Journal of Modern Physics D, 2010, 19, 1575-1582.	0.9	0
120	Influence of pions on the hadron-quark phase transition. , 2013, , .		0
121	Do coupled nested pendula have the same eigenfrequencies as pendula in cascade?. Journal of Instrumentation, 2014, 9, T08006-T08006.	0.5	0
122	Fermionic matter under the effects of high magnetic fields and its consequences in white dwarfs. Journal of Physics: Conference Series, 2015, 630, 012039.	0.3	0
123	Radial oscillations of charged strange stars. Journal of Physics: Conference Series, 2016, 706, 052022.	0.3	0
124	Possible rotation-power nature of SGRs and AXPs. Journal of Physics: Conference Series, 2017, 861, 012003.	0.3	0
125	Ansatz for Dense Matter Equation of State. International Journal of Modern Physics Conference Series, 2017, 45, 1760049.	0.7	0
126	Radial pulsation of a compact object in d dimensions. Journal of Physics: Conference Series, 2020, 1558, 012003.	0.3	0

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127	Beyond gravitomagnetism with applications to Mercuryâ€™s perihelion advance and the bending of light. International Journal of Modern Physics D, 2021, 30, 2150073.	0.9	0
128	Naturalness in relativistic mean field theories. , 2001, , .		0
129	Neutron Stars in Non-Linear Coupling Models. , 2001, , .		0
130	COLOR SUPERCONDUCTIVITY WITH 2 AND 3 FLAVORS IN THE CHROMODIELECTRIC MODEL. , 2010, , .		0
131	COLD NUCLEAR MATTER DESCRIBED BY NONLINEAR RELATIVISTIC POINT-COUPLING MODELS IN Ïs = Ï• APPROACH. , 2010, , .		0
132	MAGNETIC FIELDS OF SGRs/AXPs AS ROTATION-POWERED MASSIVE WHITE DWARF PULSARS. , 2015, , .		0
133	Equilibrium and stability of strange anisotropic stars. , 2017, , .		0
134	Gravitomagnetic approach for Mercury perihelion advance. , 2017, , .		0
135	Effects of rotation in magnetic white dwarfs. , 2017, , .		0
136	The importance of general relativity for the radius of super-Chandrasekhar white dwarfs. , 2017, , .		0