

# Manuel Malheiro

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

2,443  
citations

28  
h-index

47  
g-index

138  
ext. papers

2,724  
ext. citations

2.5  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
111	Beyond gravitomagnetism with applications to Mercury's perihelion advance and the bending of light. <i>International Journal of Modern Physics D</i> , <b>2021</b> , 30, 2150073	2.2	0
110	Relevance of Dynamical Nuclear Processes in Quantum Complex Systems of Massive White Dwarfs. <i>Brazilian Journal of Physics</i> , <b>2021</b> , 51, 223-230	1.2	0
109	Study of the charged super-Chandrasekhar limiting mass white dwarfs in the $f(R,T)$ gravity. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	2
108	Hydrostatic equilibrium configurations of neutron stars in a non-minimal geometry-matter coupling theory of gravity. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1	4.2	3
107	A Magnetic White Dwarf Accretion Model for the Anomalous X-Ray Pulsar 4U 0142+61. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 26	4.7	6
106	Radial pulsation of a compact object in $d$ dimensions. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1558, 012003	0.3	0
105	Gravastar model in Randall-Sundrum braneworld. <i>Classical and Quantum Gravity</i> , <b>2019</b> , 36, 235012	3.3	2
104	A conservative energy-momentum tensor in the $f(R,T)$ gravity and its implications for the phenomenology of neutron stars. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	16
103	Extra dimensions influence on the equilibrium and radial stability of strange quark stars. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	4
102	Strongly Magnetized White Dwarfs and Their Instability Due to Nuclear Processes. <i>Astrophysical Journal</i> , <b>2019</b> , 879, 46	4.7	11
101	General relativistic effects in the structure of massive white dwarfs. <i>General Relativity and Gravitation</i> , <b>2018</b> , 50, 1	2.3	23
100	Nuclear processes in astrophysics: Recent progress. <i>European Physical Journal A</i> , <b>2018</b> , 54, 1	2.5	11
99	White dwarfs with a surface electrical charge distribution: equilibrium and stability. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1	4.2	9
98	The rotation-powered nature of some soft gamma-ray repeaters and anomalous X-ray pulsars. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 599, A87	5.1	9
97	Possible rotation-power nature of SGRs and AXPs. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 861, 012003	0.7	0
96	Ansatz for Dense Matter Equation of State. <i>International Journal of Modern Physics Conference Series</i> , <b>2017</b> , 45, 1760049	0.7	0
95	SGRs/AXPs as Rotation-Powered Neutron Stars. <i>International Journal of Modern Physics Conference Series</i> , <b>2017</b> , 45, 1760030	0.7	0

94	Temperature effects on nuclear pseudospin symmetry in the Dirac-Hartree-Bogoliubov formalism. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	2
93	The Gravitomagnetism in the Solar System. <i>International Journal of Modern Physics Conference Series</i> , <b>2017</b> , 45, 1760052	0.7	1
92	Stellar equilibrium configurations of white dwarfs in the $f(R, T)$ gravity. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	57
91	Ultra-high energy cosmic rays from white dwarf pulsars and the Hillas criterion. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 861, 012005	0.3	0
90	Gravitational waves in $f(R, T)$ and $f(R, T^2)$ theories of gravity. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	61
89	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. <i>Physical Review C</i> , <b>2016</b> , 93,	2.7	15
88	Radial stability of anisotropic strange quark stars. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 012-012	6.4	42
87	Strong magnetic fields and SGRs/AXPs as white dwarf pulsar: a source of ultra-high energy cosmic rays. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 706, 052032	0.3	1
86	Stellar equilibrium configurations of compact stars in $f(R, T)$ theory of gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 005-005	6.4	158
85	On some Aspects of Gravitomagnetism and Correction for Perihelion Advance. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 706, 052014	0.3	2
84	Mass-Radius Relation for White Dwarfs Models at Zero Temperature. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 706, 052016	0.3	1
83	Radial oscillations of charged strange stars. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 706, 052022	0.3	
82	Generalizing spin and pseudospin symmetries for relativistic spin 1/2 fermions. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 738, 012033	0.3	1
81	Magnetars and white dwarf pulsars. <i>International Journal of Modern Physics D</i> , <b>2016</b> , 25, 1641025	2.2	14
80	General spin and pseudospin symmetries of the Dirac equation. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	9
79	Equilibrium and stability of charged strange quark stars. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	38
78	Analysis of the properties of SGRs and AXPs with realistic neutron star configurations <b>2015</b> ,		1
77	Fermionic matter under the effects of high magnetic fields and its consequences in white dwarfs. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 630, 012039	0.3	

76	Stability of charged strange quark stars <b>2015</b> ,		8
75	Gravitomagnetic correction for perihelion advance <b>2015</b> ,		1
74	Radio pulsar death lines to SGRs/AXPs and white dwarfs pulsars <b>2015</b> ,		1
73	Particle acceleration and radio emission for SGRs/AXPs as white dwarf pulsars. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 630, 012015	0.3	7
72	Mass-Radius diagram for compact stars. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 630, 012058	0.3	10
71	DYNAMICAL INSTABILITY OF WHITE DWARFS AND BREAKING OF SPHERICAL SYMMETRY UNDER THE PRESENCE OF EXTREME MAGNETIC FIELDS. <i>Astrophysical Journal</i> , <b>2014</b> , 794, 86	4.7	28
70	Relativistic pseudospin and spin symmetries in physical systems [Recent results]. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 490, 012069	0.3	6
69	Do coupled nested pendula have the same eigenfrequencies as pendula in cascade?. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, T08006-T08006	1	
68	Magnetic dipole moment of soft gamma-ray repeaters and anomalous X-ray pulsars described as massive and magnetic white dwarfs. <i>Publication of the Astronomical Society of Japan</i> , <b>2014</b> , 66, 14	3.2	25
67	Polyakov-Nambu-Lona-Lasinio phase diagrams and quarkyonic phase from order parameters. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	19
66	SGRs and AXPs as white dwarf pulsars <b>2013</b> ,		2
65	Spin and pseudospin symmetries of the Dirac equation with confining central potentials. <i>Physical Review C</i> , <b>2013</b> , 87,	2.7	35
64	Vector interaction strength in Polyakov-Nambu-Lona-Lasinio models from hadron-quark phase diagrams. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	29
63	SGRs and AXPs as Rotation-Powered Massive White Dwarfs. <i>Publication of the Astronomical Society of Japan</i> , <b>2012</b> , 64, 56	3.2	58
62	Hadron-quark phase transition in a hadronic and Polyakov-Nambu-Lona-Lasinio models perspective. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	24
61	The Effects of Charge On The Structure of Strange Stars. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 312, 042018	0.3	14
60	INVESTIGATION OF THE EXISTENCE OF HYBRID STARS USING NAMBU-LONASINIO MODELS. <i>International Journal of Modern Physics D</i> , <b>2010</b> , 19, 1521-1524	2.2	12
59	Spin and pseudospin symmetries in the antinucleon spectrum of nuclei. <i>Physical Review C</i> , <b>2010</b> , 81,	2.7	48

58	CHARGE INFLUENCE ON MINI BLACK HOLE'S CROSS SECTION. <i>International Journal of Modern Physics D</i> , <b>2010</b> , 19, 1265-1269	2.2	
57	THE EFFECT OF CONFINEMENT ON THE CFL QUARK PAIRING IN THE CHROMODIELECTRIC MODEL. <i>International Journal of Modern Physics D</i> , <b>2010</b> , 19, 1737-1741	2.2	
56	NEUTRON STAR MASS CORRELATION WITH SOUND VELOCITY AND INCOMPRESSIBILITY AT THE STAR CENTER IN THE POLYTROPIC APPROXIMATION. <i>International Journal of Modern Physics D</i> , <b>2010</b> , 19, 1575-1582	2.2	
55	A POLYTROPIC APPROACH TO NEUTRON STARS. <i>International Journal of Modern Physics D</i> , <b>2010</b> , 19, 1569-1574	2.2	4
54	Quarks stars in SU(2) Nambu-Jona-Lasinio model with vector coupling. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2010</b> , 199, 325-328		6
53	The effects of temperature on finite nuclei. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2010</b> , 199, 345-348		3
52	Color Superconductivity and Confinement in the Chromodielectric Model. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2010</b> , 199, 308-313		
51	Hadron production in non-linear relativistic mean field models. <i>Nuclear Physics A</i> , <b>2009</b> , 826, 178-189	1.3	25
50	Electrically charged strange quark stars. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	107
49	Determination of the neutron star mass-radii relation using narrow-band gravitational wave detector. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 154, 012039	0.3	2
48	CHARGED RELATIVISTIC STARS AND THE ANISOTROPIC FORMALISM. <i>International Journal of Modern Physics D</i> , <b>2007</b> , 16, 303-311	2.2	4
47	THE EFFECT OF TEMPERATURE IN SPHERICAL AND DEFORMED NUCLEI IN THE DHB APPROXIMATION. <i>International Journal of Modern Physics E</i> , <b>2007</b> , 16, 3032-3036	0.7	6
46	Color superconductivity and quark stars. <i>Nuclear Physics A</i> , <b>2007</b> , 790, 562c-565c	1.3	5
45	RELATIVISTIC EFFECTS IN POLYTROPIC COMPACT STARS. <i>International Journal of Modern Physics E</i> , <b>2007</b> , 16, 2834-2837	0.7	7
44	GENERAL RELATIVISTIC EFFECTS OF STRONG MAGNETIC FIELDS ON THE GRAVITATIONAL FORCE: A DRIVING ENGINE FOR BURSTS OF GAMMA RAYS IN SGRS?. <i>International Journal of Modern Physics D</i> , <b>2007</b> , 16, 489-499	2.2	7
43	ULTRA-DENSE NEUTRON STAR MATTER, STRANGE QUARK STARS, AND THE NUCLEAR EQUATION OF STATE. <i>International Journal of Modern Physics E</i> , <b>2007</b> , 16, 1165-1180	0.7	25
42	Constraining relativistic models through heavy ion collisions. <i>Physical Review C</i> , <b>2007</b> , 76,	2.7	12
41	Spin and pseudospin symmetries and the equivalent spectra of relativistic spin-1/2 and spin-0 particles. <i>Physical Review C</i> , <b>2007</b> , 75,	2.7	41

40	Approximate analytical solution for nuclear matter in a mean-field Walecka model and Coester line behavior. <i>Physical Review C</i> , <b>2006</b> , 73,	2.7	4
39	Relating pseudospin and spin symmetries through charge conjugation and chiral transformations: The case of the relativistic harmonic oscillator. <i>Physical Review C</i> , <b>2006</b> , 73,	2.7	92
38	The color flavor locked phase in the chromodielectric model and quark stars. <i>Brazilian Journal of Physics</i> , <b>2006</b> , 36, 1391-1396	1.2	8
37	Is There an Enhancement of Muons at Sea Level from Transient Events?. <i>Astrophysical Journal</i> , <b>2005</b> , 621, 1137-1145	4.7	12
36	Compton scattering on the proton, neutron, and deuteron in chiral perturbation theory to. <i>Nuclear Physics A</i> , <b>2005</b> , 747, 311-361	1.3	44
35	The Coester line in relativistic mean field nuclear matter. <i>Brazilian Journal of Physics</i> , <b>2005</b> , 35, 190-196	1.2	3
34	Tensor coupling and pseudospin symmetry in nuclei. <i>Physical Review C</i> , <b>2005</b> , 71,	2.7	106
33	The nuclear pseudospin symmetry along an isotopic chain. <i>Brazilian Journal of Physics</i> , <b>2004</b> , 34, 293-296	1.2	5
32	Charged polytropic compact stars. <i>Brazilian Journal of Physics</i> , <b>2004</b> , 34, 310-314	1.2	48
31	CHARGED POLYTROPIC STARS AND A GENERALIZATION OF LANÉEMDEN EQUATION. <i>International Journal of Modern Physics D</i> , <b>2004</b> , 13, 1441-1445	2.2	3
30	THE IMPORTANCE OF THE RELATIVISTIC CORRECTIONS IN HYPERON STARS. <i>International Journal of Modern Physics D</i> , <b>2004</b> , 13, 1355-1359	2.2	24
29	PERTURBATIVE BREAKING OF THE PSEUDOSPIN SYMMETRY IN THE RELATIVISTIC HARMONIC OSCILLATOR. <i>International Journal of Modern Physics D</i> , <b>2004</b> , 13, 1447-1451	2.2	19
28	OF CHARGED STARS AND CHARGED BLACK HOLES. <i>International Journal of Modern Physics D</i> , <b>2004</b> , 13, 1375-1379	2.2	17
27	Pseudospin symmetry and the relativistic harmonic oscillator. <i>Physical Review C</i> , <b>2004</b> , 69,	2.7	206
26	Nucleon polarizabilities from low-energy Compton scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 567, 200-206	4.2	37
25	Electrically charged compact stars and formation of charged black holes. <i>Physical Review D</i> , <b>2003</b> , 68,	4.9	160
24	Metastable strange matter and compact quark stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2003</b> , 29, 1045-1051	2.9	26
23	Role of the Coulomb and the vector-isovector $\rho$ potentials in the isospin asymmetry of nuclear pseudospin. <i>Physical Review C</i> , <b>2003</b> , 67,	2.7	23

22	The role of the temperature errors in DSC scans on the prediction of the average density of nuclei in polymers crystallized under quiescent conditions. <i>Thermochimica Acta</i> , <b>2002</b> , 391, 97-106	2.9	4
21	Pseudospin symmetry as a relativistic dynamical symmetry in the nucleus. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	91
20	Hadronic entropy enhancement and low density QGP. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2002</b> , 28, 2249-2258	2.9	6
19	Isospin asymmetry in the pseudospin dynamical symmetry. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5015-8	7.4	93
18	Neutron stars in a class of nonlinear relativistic models. <i>Physical Review C</i> , <b>2001</b> , 63,	2.7	47
17	How reliable is the mean-field nuclear matter description for supporting chiral effective Lagrangians?. <i>Brazilian Journal of Physics</i> , <b>2001</b> , 31, 518-520	1.2	7
16	NEUTRON STARS WITH PARAMETRIZED MESON COUPLINGS. <i>Modern Physics Letters A</i> , <b>2000</b> , 15, 1789-1800	1.0	9
15	NUCLEON SIGMA TERM AND IN-MEDIUM QUARK CONDENSATE IN THE MODIFIED Quark-MESON COUPLING MODEL. <i>Modern Physics Letters A</i> , <b>1999</b> , 14, 289-297	1.3	3
14	Strange asymmetries in the nucleon sea. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1999</b> , 451, 224-232	4.2	30
13	Compton scattering on the deuteron in baryon chiral perturbation theory. <i>Nuclear Physics A</i> , <b>1999</b> , 656, 367-399	1.3	32
12	Phase transition in warm nuclear matter with alternative derivative coupling models. <i>Physical Review C</i> , <b>1998</b> , 58, 426-433	2.7	29
11	Strangeness in the nucleon on the light cone. <i>Physical Review C</i> , <b>1997</b> , 55, 431-440	2.7	37
10	Connection between the nuclear matter mean-field equation of state and the quark and gluon condensates at high density. <i>Physical Review C</i> , <b>1997</b> , 55, 521-524	2.7	8
9	Nucleon strange magnetic moment and relativistic covariance. <i>Physical Review C</i> , <b>1997</b> , 56, R2373-R2377	2.7	4
8	Finite nuclei in a relativistic mean-field model with derivative couplings. <i>Zeitschrift für Physik A</i> , <b>1997</b> , 357, 47-52		20
7	Derivative-coupling models and the nuclear-matter equation of state. <i>Zeitschrift für Physik A</i> , <b>1996</b> , 355, 145-150		8
6	Derivative-coupling models and the nuclear-matter equation of state. <i>Zeitschrift für Physik A</i> , <b>1996</b> , 355, 145-150		1
5	Nuclear matter properties for modified Zimanyi-Moszkowski models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 345, 361-366	4.2	28

4	The model of Nambu and Jona-Lasinio (NJL) using the deformed Poincaré algebra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 348, 417-420	4.2	4
3	Decoupling of quark condensate from the effective nucleon mass at high density (?) and temperature (T). <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1995</b> , 363, 17-23	4.2	19
2	Relativistic nuclear matter with alternative derivative coupling models. <i>Physical Review C</i> , <b>1995</b> , 51, 2188-2195	2.8	28
1	MESONIC EXCITATIONS IN THE LINEAR SIGMA MODEL. <i>International Journal of Modern Physics A</i> , <b>1993</b> , 08, 787-807	1.2	1