

Claudio Furtado

List of Publications by Year in descending order

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145
papers

4,394
citations

81743

39
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123241

61
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148
all docs

148
docs citations

148
times ranked

589
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-based topological insulator in the presence of a disclination submitted to a uniform magnetic field. <i>Annals of Physics</i> , 2021, 425, 168384.	1.0	2
2	Strong gravitational lensing in a spacetime with topological charge within the Eddington-inspired Born-Infeld gravity. <i>Physical Review D</i> , 2021, 103, .	1.6	6
3	On an attractive inverse-square potential in an elastic medium with a screw dislocation. <i>International Journal of Modern Physics A</i> , 2021, 36, 2150066.	0.5	2
4	Quantum holonomy based in a Kaluza-Klein description for defects in C60 fullerenes. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021, 18, 2150163.	0.8	2
5	On the missing magnetic flux and topological effects of a screw dislocation on a charged particle in an inhomogeneous magnetic field. <i>Annals of Physics</i> , 2021, 433, 168598.	1.0	4
6	Transfer-matrix method of circular polarization light in an axionic photonic insulator. <i>Physical Review A</i> , 2021, 104, .	1.0	0
7	Landau Quantization for \hat{I} -Type Neutral Atoms in an Homogeneous Spin-Dependent Gauge Potential. <i>Brazilian Journal of Physics</i> , 2020, 50, 30-34.	0.7	0
8	Graphene wormhole trapped by external magnetic field. <i>Nuclear Physics B</i> , 2020, 950, 114853.	0.9	10
9	Aharonov-Casher effect in the presence of spin-dependent potential. <i>Annals of Physics</i> , 2020, 422, 168325.	1.0	10
10	Semiclassical treatment of an attractive inverse-square potential in an elastic medium with a disclination. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020, 17, 2050178.	0.8	6
11	Analysis of the interaction of an electron with radial electric fields in the presence of a disclination. <i>International Journal of Geometric Methods in Modern Physics</i> , 2019, 16, 1950172.	0.8	13
12	A quantum ring in a nanosphere. <i>International Journal of Geometric Methods in Modern Physics</i> , 2019, 16, 1950167.	0.8	8
13	Weyl fermions in a family of Godel-type geometries with a topological defect. <i>International Journal of Modern Physics D</i> , 2018, 27, 1850027.	0.9	18
14	Linear confinement of a scalar particle in a Godel-type spacetime. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	42
15	Quantum ring in gapped graphene layer with wedge disclination in the presence of a uniform magnetic field. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	28
16	An analog of magnetic oscillations for neutral atoms with induced electric dipole. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850206.	1.0	0
17	Analogue of the quantum Hall effect for neutral particles with magnetic dipole moment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 849-851.	0.9	2
18	Fermions in Godel-type background space-times with torsion and the Landau quantization. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	32

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19	The geometric theory of defects description for C60 fullerenes in a rotating frame. European Physical Journal Plus, 2017, 132, 1.	1.2	17
20	Aharonov-Bohm effect in graphene Möbius strips: an analytical treatment. European Physical Journal B, 2017, 90, 1.	0.6	3
21	Evidence for field induced proximity type behavior in based ferromagnetic nanofluid. Philosophical Magazine Letters, 2017, 97, 287-293.	0.5	3
22	Evolution of Landau levels in graphene-based topological insulators in the presence of wedge disclinations. Annals of Physics, 2017, 383, 610-619.	1.0	8
23	Gap-dependent mass of a photon in a photonic topological insulator. Physical Review A, 2017, 96, .	1.0	5
24	Geometric quantum phase for displaced states for a particle with an induced electric dipole moment. Europhysics Letters, 2016, 115, 20001.	0.7	8
25	Klein-Gordon oscillator in Kaluza-Klein theory. European Physical Journal C, 2016, 76, 1.	1.4	107
26	On a relativistic particle and a relativistic position-dependent mass particle subject to the Klein-Gordon oscillator and the Coulomb potential. Annals of Physics, 2016, 370, 128-136.	1.0	74
27	de Haas-van Alphen oscillations for neutral atoms in electric fields. European Physical Journal Plus, 2016, 131, 1.	1.2	3
28	Two-dimensional quantum ring in a graphene layer in the presence of a Aharonov-Bohm flux. Annals of Physics, 2016, 373, 273-285.	1.0	37
29	Description for rotating C60 fullerenes via an analogue of Godel-type metric. European Physical Journal Plus, 2016, 131, 1.	1.2	17
30	On the confinement of massless Dirac fermions in topological Möbius strips. International Journal of Modern Physics B, 2016, 30, 1650224.	1.0	3
31	Relativistic Anandan quantum phase and the Aharonov-Casher effect under Lorentz symmetry breaking effects in the cosmic string spacetime. Annals of Physics, 2016, 372, 544-552.	1.0	9
32	Residual degeneracy from non-degenerate Landau levels of ultracold atoms in light-induced gauge potentials. Physica B: Condensed Matter, 2016, 498, 15-20.	1.3	1
33	On the effects of a screw dislocation and a linear potential on the harmonic oscillator. Physica B: Condensed Matter, 2016, 496, 45-48.	1.3	24
34	Berry's phase for displaced Landau-He-McKellar-Wilkins states. European Physical Journal Plus, 2016, 131, 1.	1.2	3
35	Coherent states of Landau-Aharonov-Casher levels. International Journal of Modern Physics B, 2016, 30, 1650022.	1.0	3
36	De Haas-van Alphen effect of a two-dimensional ultracold atomic gas. Physica B: Condensed Matter, 2016, 481, 19-23.	1.3	7

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37	Lorentz symmetry breaking effects on relativistic EPR correlations. <i>European Physical Journal C</i> , 2015, 75, 1.	1.4	14
38	On the Klein-Gordon oscillator subject to a Coulomb-type potential. <i>Annals of Physics</i> , 2015, 355, 48-54.	1.0	116
39	Wigner rotation via Fermi-Walker transport and relativistic EPR correlations in the Schwarzschild spacetime. <i>International Journal of Quantum Information</i> , 2015, 13, 1550020.	0.6	3
40	Geometric phases modified by a Lorentz-symmetry violation background. <i>International Journal of Modern Physics A</i> , 2015, 30, 1550072.	0.5	30
41	Quantum ring in a rotating frame in the presence of a topological defect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 11-15.	0.9	75
42	Persistent currents for a moving neutral particle with no permanent electric dipole moment. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	18
43	Geometric model of a fullerene molecule in the presence of Aharonov-Bohm flux. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 1265-1268.	1.9	12
44	Quantum dot in a graphene layer with topological defects. <i>European Physical Journal Plus</i> , 2014, 129, 1.	1.2	45
45	Quantum holonomies for displaced Landau-Aharonov-Casher states. <i>Quantum Information Processing</i> , 2014, 13, 1563-1572.	1.0	4
46	Quantum influence of topological defects in Godel-type space-times. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	71
47	Degenerate Landau levels for tripod-type cold atoms in U(2) Abelian gauge field. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	7
48	Aharonov-Bohm effect for light in a moving medium. <i>Physical Review A</i> , 2014, 90, .	1.0	6
49	Bound states in disclinated graphene with Coulomb impurities in the presence of a uniform magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2317-2324.	0.9	15
50	One-qubit quantum gates associated with topological defects in solids. <i>Quantum Information Processing</i> , 2013, 12, 119-128.	1.0	22
51	Holonomy transformations and application in the curved structure of graphene. <i>European Physical Journal Plus</i> , 2013, 128, 1.	1.2	5
52	On the interaction of the Dirac oscillator with the Aharonov-Casher system in topological defect backgrounds. <i>Annals of Physics</i> , 2013, 336, 489-504.	1.0	90
53	Persistent spin currents in an elastic Landau system. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	7
54	Abelian geometric phase due to the presence of an edge dislocation. <i>Physical Review A</i> , 2013, 87, .	1.0	31

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55	Induced electric dipole in a quantum ring. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2926-2930.	0.9	23
56	Some remarks on Landau quantization for induced dipole. <i>Physica Scripta</i> , 2012, T151, 014075.	1.2	0
57	An analogy of the quantum hall conductivity in a Lorentz-symmetry violation setup. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2012, 39, 105004.	1.4	58
58	LANDAU QUANTIZATION FOR A NEUTRAL PARTICLE IN THE PRESENCE OF TOPOLOGICAL DEFECTS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 18, 101-104.	0.7	0
59	THE GÄDEL METRIC IN THE CHERN-SIMONS MODIFIED GRAVITY. <i>International Journal of Modern Physics Conference Series</i> , 2012, 18, 145-149.	0.7	5
60	GEOMETRIC PHASES, SQUEEZED QUANTUM STATES AND GAUSSIAN WAVE PACKET STATES OF RELIC GRAVITONS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 18, 13-17.	0.7	1
61	COHERENT STATES OF LIGHT PROPAGATING IN CURVED SPACETIMES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 18, 140-144.	0.7	3
62	A Kaluza-Klein description of geometric phases in graphene. <i>Annals of Physics</i> , 2012, 327, 2946-2954.	1.0	27
63	Yet another position-dependent mass quantum model. <i>Journal of Mathematical Physics</i> , 2012, 53, .	0.5	27
64	Landau levels in graphene layers with topological defects. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	61
65	On the Aharonov-Casher system and the Landau-Aharonov-Casher system confined to a two-dimensional quantum ring. <i>Journal of Mathematical Physics</i> , 2012, 53, 023514.	0.5	22
66	Holonomic quantum computation based on the scalar Aharonov-Bohm effect for neutral particles and linear topological defects. <i>Annals of Physics</i> , 2012, 327, 376-385.	1.0	14
67	On the confinement of a Dirac particle to a two-dimensional ring. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1269-1273.	0.9	49
68	Horava-Lifshitz gravity and GÄdel universe. <i>Physical Review D</i> , 2011, 84, .	1.6	11
69	Dirac oscillator interacting with a topological defect. <i>Physical Review A</i> , 2011, 84, .	1.0	74
70	Landau quantization for an electric quadrupole moment. <i>Physica Scripta</i> , 2011, 84, 045023.	1.2	16
71	Geometric quantum phase in the spacetime of topological defects. <i>Journal of Physics: Conference Series</i> , 2011, 306, 012069.	0.3	3
72	Light propagation: From dielectrics to curved spacetimes. <i>Europhysics Letters</i> , 2011, 94, 30002.	0.7	9

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73	Quantum holonomies for an electric dipole moment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3956-3959.	0.9	32
74	THE ANALOGUE OF THE AHARONOVâ€BOHM EFFECT FOR BOUND STATES FOR NEUTRAL PARTICLES. Modern Physics Letters A, 2011, 26, 1331-1341.	0.5	38
75	HQC with the AC setup associated with topological defects. Quantum Information and Computation, 2011, 11, 444-455.	0.1	13
76	Landau quantization for an induced electric dipole in the presence of topological defects. Open Physics, 2010, 8, .	0.8	26
77	Anandan quantum phase for a neutral particle withâ€Walker reference frame in the cosmic string background. European Physical Journal C, 2010, 69, 531-539.	1.4	34
78	Scalar Aharonovâ€Bohm effect in the presence of a topological defect. Annalen Der Physik, 2010, 522, 447-455.	0.9	29
79	Influence of electronâ€phonon interaction on soliton mediated spinâ€charge conversion effects in two-component polymer model. Annals of Physics, 2010, 325, 455-464.	1.0	3
80	Dynamical Chernâ€Simons modified gravity, GÃrdel Universe and variable cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 494-497.	1.5	16
81	Quantum Scattering of an Electric Dipole by a Charged Screw Dislocation. Progress of Theoretical Physics, 2010, 124, 547-553.	2.0	6
82	Quantum rings in a space with topological defects. Journal of Physics: Conference Series, 2010, 249, 012041.	0.3	0
83	RELATIVISTIC EINSTEINâ€PODOLSKYâ€ROSEN CORRELATIONS IN COSMIC STRING SPACEâ€TIME VIA FERMIONâ€WALKER TRANSPORT. International Journal of Quantum Information, 2010, 08, 1277-1288.	0.6	9
84	RELATIVISTIC LANDAUâ€AHARONOVâ€CASHER QUANTIZATION IN TOPOLOGICAL DEFECT SPACEâ€TIME. International Journal of Modern Physics D, 2010, 19, 85-96.	0.9	36
85	Bound states for neutral particles in a rotating frame in the cosmic string spacetime. Physical Review D, 2010, 82, .	1.6	73
86	Relativistic Landau quantization for a neutral particle. Physical Review A, 2009, 80, .	1.0	44
87	Gaussian wave packet states of scalar fields in a universe of de Sitter. Journal of Mathematical Physics, 2009, 50, 083511.	0.5	9
88	TOPOLOGICAL DEFECT DISTRIBUTIONS AND THE SELF-ENERGY OF A CHARGED PARTICLE. International Journal of Modern Physics D, 2009, 18, 237-249.	0.9	6
89	Gaussian wave packet states of relic gravitons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 314-317.	1.5	8
90	Gravitational geometric phase in the presence of torsion. European Physical Journal C, 2009, 60, 501.	1.4	43

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91	Circular orbits in cosmic string and Schwarzschild AdS spacetime with Fermi-Walker transport. European Physical Journal C, 2009, 63, 149-155.	1.4	14
92	Geometric phase for a neutral particle in rotating frames in a cosmic string spacetime. Physical Review D, 2009, 80, .	1.6	64
93	Gödel solution in modified gravity. Physical Review D, 2009, 79, .	1.6	29
94	Landau quantization for a neutral particle in the presence of topological defects. Physical Review D, 2009, 79, .	1.6	71
95	Geometric phases and squeezed quantum states of relic gravitons. Journal of Mathematical Physics, 2009, 50, .	0.5	16
96	Holonomic quantum computation associated with a defect structure of conical graphene. Europhysics Letters, 2009, 87, 30002.	0.7	38
97	Geometric phases in graphitic cones. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5368-5371.	0.9	87
98	Influence of topology in a quantum ring. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3894-3897.	0.9	55
99	Landau analog levels for dipoles in non-commutative space and phase space. European Physical Journal C, 2008, 56, 597-606.	1.4	34
100	Berry's phase for a spin 1/2 particle in the presence of topological defects. European Physical Journal C, 2008, 57, 817-822.	1.4	14
101	Self-interaction in the von Neumann cosmic string street configuration. European Physical Journal C, 2008, 58, 331-335.	1.4	0
102	Geometric phase for a neutral particle in the presence of a topological defect. Physical Review D, 2008, 78, .	1.6	71
103	Dual equivalence between self-dual and Maxwell-Chern-Simons models with Lorentz symmetry breaking. Physical Review D, 2008, 78, .	1.6	7
104	Elastic Landau levels. Journal of Physics Condensed Matter, 2008, 20, 125209.	0.7	39
105	Influence of the topology in EPR correlations. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 065301.	0.7	6
106	Noncommutative Anandan quantum phase. Physical Review A, 2007, 76, .	1.0	49
107	Landau quantization and curvature effects in a two-dimensional quantum dot. Europhysics Letters, 2007, 79, 57001.	0.7	55
108	Exact linear invariants and quantum effects in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 384-387.	1.5	21

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109	Holonomy transformation in the FRW metric. <i>General Relativity and Gravitation</i> , 2007, 39, 1311-1322.	0.7	1
110	Landau levels analog to electric dipole. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 348, 135-140.	0.9	89
111	Landau quantization of neutral particles in an external field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 358, 336-338.	0.9	85
112	AHARONOVâ€™BOHM EFFECT AND DISCLINATIONS IN AN ELASTIC MEDIUM. <i>Modern Physics Letters A</i> , 2006, 21, 1393-1403.	0.5	12
113	BOUND STATES IN THE DYNAMICS OF A DIPOLE IN THE PRESENCE OF A CONICAL DEFECT. <i>Modern Physics Letters A</i> , 2005, 20, 1991-1995.	0.5	19
114	QUANTUM EFFECTS DUE TO A MAGNETIC FLUX ASSOCIATED TO A TOPOLOGICAL DEFECT. <i>International Journal of Modern Physics A</i> , 2005, 20, 6051-6064.	0.5	40
115	Dual Aharonovâ€™Bohm Effect. <i>Physica Scripta</i> , 2005, 71, 7-11.	1.2	48
116	Geometric phase for fermionic quasiparticles scattering by disgyration in superfluids. <i>Europhysics Letters</i> , 2004, 67, 538-544.	0.7	6
117	Brane structure from a scalar field in warped spacetime. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 002-002.	1.9	139
118	Scalar fields and exact invariants in a Friedmann-Robertson-Walker spacetime. <i>Physical Review D</i> , 2004, 70, .	1.6	29
119	THE SELF-ENERGY OF A CHARGED PARTICLE IN THE PRESENCE OF A TOPOLOGICAL DEFECT DISTRIBUTION. <i>International Journal of Modern Physics A</i> , 2004, 19, 2113-2122.	0.5	17
120	CIRCULAR ORBITS AROUND SCHWARZSCHILDâ€™AdS SPACETIME. <i>Modern Physics Letters A</i> , 2004, 19, 2683-2695.	0.5	3
121	Global Properties of the Black Cigar Spacetime. <i>Journal of High Energy Physics</i> , 2004, 2004, 029-029.	1.6	2
122	Quantum dynamics of magnetic and electric dipoles and the geometric phase. <i>Physical Review A</i> , 2004, 69, .	1.0	38
123	Topological interactions in spacetimes with thick line defects. <i>Physical Review D</i> , 2003, 68, .	1.6	6
124	Solid-state analog for the He-McKellar-Wilkins quantum phase. <i>Europhysics Letters</i> , 2003, 62, 306-312.	0.7	24
125	Loop variables in the geometry of a rotating black string. <i>Classical and Quantum Gravity</i> , 2003, 20, 2063-2074.	1.5	7
126	NON-ADIABATIC BERRY'S QUANTUM PHASES IN ANISOTROPIC UNIVERSES. <i>Modern Physics Letters A</i> , 2002, 17, 1665-1672.	0.5	2

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127	Aharonovâ€™Bohm effect in the presence of a density of defects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 171-175.	0.9	35
128	On the localization of electrons and holes by a disclination core. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 288, 329-334.	0.9	7
129	Quantum scattering by a magnetic flux screw dislocation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 289, 160-166.	0.9	101
130	Dipole dynamics in the presence of a cosmic string. Journal of Physics A, 2001, 34, 6119-6125.	1.6	7
131	Landau levels in the presence of topological defects. Journal of Physics A, 2001, 34, 5945-5954.	1.6	118
132	AHARONOVâ€™BOHM EFFECT FOR BOUND STATES IN KALUZAâ€™KLEIN THEORY. Modern Physics Letters A, 2000, 15, 253-258.	0.5	44
133	Berry's quantum phase in media with dislocations. Europhysics Letters, 2000, 52, 1-7.	0.7	42
134	Harmonic oscillator interacting with conical singularities. Journal of Physics A, 2000, 33, 5513-5519.	1.6	129
135	Gravitational Berryâ€™s quantum phase. Physical Review D, 2000, 62, .	1.6	45
136	Self-forces on electric and magnetic linear sources in the presence of a torsional defect. Physical Review D, 2000, 62, .	1.6	7
137	Landau levels in the presence of a screw dislocation. Europhysics Letters, 1999, 45, 279-282.	0.7	131
138	Global effects due to cosmic defects in Kaluza-Klein theory. Physical Review D, 1999, 59, .	1.6	78
139	Charge Localization around Disclinations in Monolayer Graphite. Physica Status Solidi (B): Basic Research, 1998, 207, 387-392.	0.7	33
140	Electrostatic self-force in -dimensional cosmological gravity. Classical and Quantum Gravity, 1997, 14, 3425-3432.	1.5	7
141	Nonrelativistic scattering problem by a global monopole. Physical Review D, 1997, 56, 1345-1348.	1.6	67
142	Self-forces on electric and magnetic linear sources in the space-time of a cosmic string. Physical Review D, 1995, 51, 7140-7143.	1.6	28
143	Landau levels in the presence of disclinations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 195, 90-94.	0.9	191
144	On the binding of electrons and holes to disclinations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 188, 394-396.	0.9	121

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145	Mechanically deformed crumpled surfaces. Journal Physics D: Applied Physics, 1989, 22, 1217-1221.	1.3	29