Orfeu Bertolami

List of Publications by Year
in descending order

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251 papers	10,984 citations	34105 52 h-index	34986 98 g-index
270 all docs	270 docs citations	270 times ranked	2845 citing authors

#	Article	IF	Citations
1	Generalized Chaplygin gas, accelerated expansion, and dark-energy-matter unification. Physical Review D, 2002, 66, .	4.7	1,594
2	Extra force inf(R)modified theories of gravity. Physical Review D, 2007, 75, .	4.7	684
3	Dark energyâ€“dark matter interaction and putative violation of the equivalence principle from the Abell cluster A586. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 654, 165-169.	4.1	328
4	Nonminimal coupling and quintessence. Physical Review D, 2000, 61, .	4.7	297
5	Time-dependent cosmological term. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1986, 93, 36-42.	0.2	283
6	Nonminimal coupling of perfect fluids to curvature. Physical Review D, 2008, 78, .	4.7	246
7	Noncommutative gravitational quantum well. Physical Review D, 2005, 72, .	4.7	232
8	Generalized Chaplygin gas and cosmic microwave background radiation constraints. Physical Review D, 2003, 67, .	4.7	222
9	WMAP constraints on the generalized Chaplygin gas model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 172-180.	4.1	219
10	Revival of the unified dark energyâ€“dark matter model?. Physical Review D, 2004, 70, .	4.7	213
11	CPT violation and baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 178-183.	4.1	177
12	Energy conditions and stability in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (stretchy="false">)</mml:mo<mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (stretchy="false">)</mml:mo</mml:math> Physical Review D, 2009, 79, .	4.7	173
13	Latest supernova data in the framework of the generalized Chaplygin gas model. Monthly Notices of the Royal Astronomical Society, 2004, 353, 329-337.	4.4	172
14	Self-interacting dark matter and the Higgs boson. Physical Review D, 2000, 62, .	4.7	141
15	Do<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 172 Td (stretchy="false"	4.7	123
16	Primordial magnetic fields via spontaneous breaking of Lorentz invariance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 455, 96-103.	4.1	119
17	Accelerated expansion from a nonminimal gravitational coupling to matter. Physical Review D, 2010, 81, .	4.7	116
18	Expected Constraints on the Generalized Chaplygin Equation of State from Future Supernova Experiments and Gravitational Lensing Statistics. Astrophysical Journal, 2003, 599, 829-838.	4.5	109

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19	Cosmological acceleration, varying couplings, and Lorentz breaking. Physical Review D, 2004, 69, .	4.7	108
20	On the non-minimal gravitational coupling to matter. Classical and Quantum Gravity, 2008, 25, 245017.	4.0	108
21	Quantum physics exploring gravity in the outer solar system: the SAGAS project. Experimental Astronomy, 2009, 23, 651-687.	3.7	101
22	Cosmological constraints on an invisibly decaying Higgs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 518, 276-281.	4.1	99
23	Letter: Generalized Chaplygin Gas Model: Dark Energyâ€"Dark Matter Unification and CMBR Constraints. General Relativity and Gravitation, 2003, 35, 2063-2069.	2.0	97
24	Phase-space noncommutative quantum cosmology. Physical Review D, 2008, 78, .	4.7	97
25	Maximally symmetric cosmological solutions of higher-curvature string effective theories with dilatons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 368, 198-201.	4.1	95
26	Proposed astrophysical test of Lorentz invariance. Physical Review D, 2000, 61, .	4.7	95
27	Weylâ€"Wigner formulation of noncommutative quantum mechanics. Journal of Mathematical Physics, 2008, 49, .	1.1	89
28	Reheating via a generalized nonminimal coupling of curvature to matter. Physical Review D, 2011, 83, .	4.7	88
29	SCALING OF VARIABLES AND THE RELATION BETWEEN NONCOMMUTATIVE PARAMETERS IN NONCOMMUTATIVE QUANTUM MECHANICS. Modern Physics Letters A, 2006, 21, 795-802.	1.2	87
30	Inflation as a cure for the cosmological problems of superstring models with intermediate scale breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 183, 163-168.	4.1	82
31	Mimicking dark matter through a non-minimal gravitational coupling with matter. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 009-009.	5.4	79
32	Tachyonic inflation in the braneworld scenario. Physical Review D, 2003, 67, .	4.7	78
33	Mimicking dark matter in galaxy clusters through a nonminimal gravitational coupling with matter. Physical Review D, 2012, 86, .	4.7	75
34	Supernovae constraints on models of dark energy reexamined. Physical Review D, 2005, 71, .	4.7	74
35	On the cosmology of massive vector fields with SO(3) global symmetry. Classical and Quantum Gravity, 1993, 10, 285-298.	4.0	72
36	The Abell cluster A586 and the detection of violation of the equivalence principle. General Relativity and Gravitation, 2009, 41, 2839-2846.	2.0	71

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37	Traversable wormholes and time machines in nonminimally coupled curvature-matter<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 732 Td (stretchy="false"	4.7	71
38	Vacuum solutions of a gravity model with vector-induced spontaneous Lorentz symmetry breaking. Physical Review D, 2005, 72, .	4.7	68
39	Gamma-ray bursts as dark energy-matter probes in the context of the generalized Chaplygin gas model. Monthly Notices of the Royal Astronomical Society, 2005, 365, 1149-1159.	4.4	66
40	Dynamics of perfect fluids in nonminimally coupled gravity. Physical Review D, 2012, 85, .	4.7	66
41	A two-field quintessence model. Physical Review D, 2002, 65, .	4.7	65
42	Quantum gravity and the large scale structure of the universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 27-33.	4.1	61
43	Modified Friedmann equation from nonminimally coupled theories of gravity. Physical Review D, 2014, 89, .	4.7	61
44	Aspects of phase-space noncommutative quantum mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 6-11.	4.1	60
45	Noncommutative field theory and violation of translation invariance. Journal of High Energy Physics, 2003, 2003, 013-013.	4.7	59
46	Bransâ€Dicke Cosmology with a Scalar Field Dependent Cosmological Term. Fortschritte Der Physik, 1986, 34, 829-833.	4.4	58
47	Chaplygin dark star. Physical Review D, 2005, 72, .	4.7	58
48	WMAP five-year data constraints on the unified model of dark energy and dark matter. Physical Review D, 2008, 78, .	4.7	56
49	Thermal analysis of the Pioneer anomaly: A method to estimate radiative momentum transfer. Physical Review D, 2008, 78, .	4.7	54
50	Solar System constraints to nonminimally coupled gravity. Physical Review D, 2013, 88, .	4.7	54
51	THE HIGGS PORTAL AND AN UNIFIED MODEL FOR DARK ENERGY AND DARK MATTER. International Journal of Modern Physics A, 2008, 23, 4817-4827.	1.5	53
52	Gravitational waves in theories with a non-minimal curvature-matter coupling. European Physical Journal C, 2018, 78, 1.	3.9	53
53	Phase-space noncommutativity and the Dirac equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 4116-4119.	2.1	52
54	Chaplygin inspired inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 121-125.	4.1	51

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55	Berry phase in the gravitational quantum well and the Seibergâ€“Witten map. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5556-5559.	2.1	51
56	DYNAMICS OF EUCLIDEANIZED EINSTEIN-YANG-MILLS SYSTEMS WITH ARBITRARY GAUGE GROUPS. International Journal of Modern Physics A, 1991, 06, 4149-4180.	1.5	49
57	Odyssey: a solar system mission. Experimental Astronomy, 2009, 23, 529-547.	3.7	49
58	Black holes and phase-space noncommutativity. Physical Review D, 2009, 80, .	4.7	49
59	General Theory of Relativity: Will It Survive the Next Decade?. Astrophysics and Space Science Library, 2008, , 27-74.	2.7	47
60	Generalized Chaplygin gas model, supernovae, and cosmic topology. Physical Review D, 2006, 73, .	4.7	45
61	Minimal extension of General Relativity: Alternative gravity model with non-minimal coupling between matter and curvature. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1460003.	2.0	45
62	The Pioneer anomaly in the context of the braneworld scenario. Classical and Quantum Gravity, 2004, 21, 3309-3321.	4.0	43
63	Homogeneous spherically symmetric bodies with a non-minimal coupling between curvature and matter: the choice of the Lagrangian density for matter. General Relativity and Gravitation, 2015, 47, 1.	2.0	42
64	Lorentz invariance and the cosmological constant. Classical and Quantum Gravity, 1997, 14, 2785-2791.	4.0	41
65	Entropic gravity, phase-space noncommutativity and the equivalence principle. Classical and Quantum Gravity, 2011, 28, 125007.	4.0	41
66	Ultracold neutrons, quantum effects of gravity and the weak equivalence principle. Classical and Quantum Gravity, 2003, 20, L61-L66.	4.0	40
67	The ground-state wavefunction of a radiation-dominated universe. Classical and Quantum Gravity, 1991, 8, 1271-1282.	4.0	39
68	Dark Energy-Dark Matter Interaction from the Abell Cluster A586 and violation of the Equivalence Principle. AIP Conference Proceedings, 2007, , .	0.4	39
69	Inflation from strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 262, 11-17.	4.1	38
70	Compactification, Vacuum Energy and Quintessence. General Relativity and Gravitation, 1999, 31, 1461-1472.	2.0	38
71	Cosmological perturbations in theories with non-minimal coupling between curvature and matter. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 029-029.	5.4	38
72	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. Experimental Astronomy, 2012, 34, 203-242.	3.7	37

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73	Letter: Ultra-High Energy Cosmic Rays and Symmetries of Spacetime. General Relativity and Gravitation, 2002, 34, 707-713.	2.0	36
74	HoÅ™ava-Lifshitz quantum cosmology. Physical Review D, 2011, 84, .	4.7	35
75	Probing phase-space noncommutativity through quantum beating, missing information, and the thermodynamic limit. Physical Review A, 2013, 88, .	2.5	35
76	Astrophysical constraints on scalar field models. Physical Review D, 2005, 71, .	4.7	34
77	Towards a noncommutative astrophysics. Physical Review D, 2010, 81, .	4.7	34
78	Modelling the reflective thermal contribution to the acceleration of the Pioneer spacecraft. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 337-346.	4.1	33
79	Stability conditions for a scalar field coupled non-minimally with gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 186, 161-166.	4.1	32
80	Noncommutative scalar field coupled to gravity. Physical Review D, 2003, 67, .	4.7	32
81	Noncanonical phase-space noncommutativity and the Kantowski-Sachs singularity for black holes. Physical Review D, 2011, 84, .	4.7	32
82	Estimating Radiative Momentum Transfer ThroughÂaÂThermal Analysis of the Pioneer Anomaly. Space Science Reviews, 2010, 151, 75-91.	8.1	31
83	Mimicking the cosmological constant: Constant curvature spherical solutions in a nonminimally coupled model. Physical Review D, 2011, 84, .	4.7	31
84	ASTROPHYSICAL AND COSMOLOGICAL CONSTRAINTS ON A SCALE-DEPENDENT GRAVITATIONAL COUPLING. International Journal of Modern Physics D, 1996, 05, 363-373.	2.1	30
85	NONCOMMUTATIVE GRAPHENE. International Journal of Modern Physics A, 2013, 28, 1350064.	1.5	30
86	Scale-invariant scalar field dark matter through the Higgs portal. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
87	Cosmological difficulties of N = 1 supergravity models with sliding scales. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 209, 277-282.	4.1	29
88	Entanglement due to noncommutativity in phase space. Physical Review D, 2013, 88, .	4.7	29
89	Phase-space noncommutative formulation of Ozawaâ€™s uncertainty principle. Physical Review D, 2014, 90, .	4.7	29
90	Scale-factor duality: a quantum cosmological approach. Classical and Quantum Gravity, 1995, 12, 1919-1925.	4.0	28

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91	Nonlinear corrections to quantum mechanics from quantum gravity. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 154, 225-229.	2.1	27
92	Singularity problem and phase-space noncanonical noncommutativity. Physical Review D, 2010, 82, .	4.7	27
93	Advancing fundamental physics with the Laser Astrometric Test of Relativity. Experimental Astronomy, 2009, 27, 27-60.	3.7	26
94	Decoherence of Friedmann-Robertson-Walker geometries in the presence of massive vector fields with U(1) or SO(3) global symmetries. Nuclear Physics B, 1995, 439, 259-290.	2.5	25
95	Stationary condition in a perturbative approach for mass varying neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 97-101.	4.1	25
96	Two-scalar-field model for the interaction of dark energy and dark matter. Physical Review D, 2012, 86, .	4.7	25
97	Supergravity inflation on the brane. Physical Review D, 2003, 67, .	4.7	24
98	Lorentz symmetry derived from Lorentz violation in the bulk. Physical Review D, 2006, 74, .	4.7	24
99	Pioneer anomaly and the Kuiper Belt mass distribution. Classical and Quantum Gravity, 2006, 23, 4625-4635.	4.0	24
100	String-generated gravity models with cubic curvature terms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 228, 348-354.	4.1	23
101	Perturbative approach for mass varying neutrinos coupled to the dark sector in the generalized Chaplygin gas scenario. Physical Review D, 2008, 77, .	4.7	23
102	NONCOMMUTATIVE QUANTUM MECHANICS AND QUANTUM COSMOLOGY. International Journal of Modern Physics A, 2009, 24, 2741-2752.	1.5	23
103	Robertson-SchrÃ¶dinger-type formulation of Ozawa's noise-disturbance uncertainty principle. Physical Review A, 2014, 89, .	2.5	23
104	Inflation in non-minimal matter-curvature coupling theories. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 021-021.	5.4	23
105	INFLATION FROM STRINGS II: REHEATING AND BARYOGENESIS. Modern Physics Letters A, 1992, 07, 911-920.	1.2	22
106	Violation of the Robertson-SchrÃ¶dinger uncertainty principle and noncommutative quantum mechanics. Physical Review D, 2012, 86, .	4.7	22
107	Scalar field dark matter and the Higgs field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 1-8.	4.1	22
108	On small satellites for oceanography: A survey. Acta Astronautica, 2016, 127, 404-423.	3.2	22

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109	N=1supergravity chaotic inflation in the braneworld scenario. Physical Review D, 2002, 65, .	4.7	21
110	Phase-space noncommutative extension of the Robertson-SchrÃ¶dinger formulation of Ozawaâ€™s uncertainty principle. Physical Review D, 2015, 91, .	4.7	21
111	One-scale supersymmetric inflationary models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 171, 46-50.	4.1	20
112	Fitting BOOMERANG and MAXIMA-1 data with aÂEinsteinâ€“Yangâ€“Mills cosmological model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 498, 62-66.	4.1	20
113	Time evolution of the fine structure constant in a two-field quintessence model. Physical Review D, 2004, 70, .	4.7	20
114	Varying electromagnetic coupling and primordial magnetic fields. Physical Review D, 2005, 71, .	4.7	20
115	A MISSION TO TEST THE PIONEER ANOMALY: ESTIMATING THE MAIN SYSTEMATIC EFFECTS. International Journal of Modern Physics D, 2007, 16, 1611-1623.	2.1	20
116	Bell operator and Gaussian squeezed states in noncommutative quantum mechanics. Physical Review D, 2016, 93, .	4.7	20
117	Equivalence between Bornâ€“Infeld tachyon and effective real scalar field theories for brane structures in warped geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 512-517.	4.1	19
118	Bounds on cubic Lorentz-violating terms in the fermionic dispersion relation. Physical Review D, 2005, 71, .	4.7	18
119	Observational constraints on modified gravity models and the PoincarÃ© dodecahedral topology. Physical Review D, 2006, 73, .	4.7	17
120	Interacting universes and the cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 200-205.	4.1	17
121	Scalar field dark matter with spontaneous symmetry breaking and the 3.5 keV line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 639-644.	4.1	17
122	A physical framework for the earth system, Anthropocene equation and the great acceleration. Global and Planetary Change, 2018, 169, 66-69.	3.5	17
123	General cosmological features of the Einstein-Yang-Mills-dilaton system in string theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 6-10.	4.1	16
124	Vacuum decay in an interacting multiverse. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 328-335.	4.1	16
125	Instanton solutions in gravitational theories with nonlinear lagrangian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 234, 258-264.	4.1	15
126	Stability of compactification in Einstein-Yang-Mills theories after inflation. Physical Review D, 1992, 45, 3405-3414.	4.7	15

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127	Nucleosynthesis constraints on a scale-dependent new intermediate range interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 452, 108-114.	4.1	15
128	Dark Energy-Dark Matter Interaction from the Abell Cluster A586. EAS Publications Series, 2008, 30, 161-167.	0.3	15
129	THE COSMOLOGICAL CONSTANT PROBLEM: A USER'S GUIDE. International Journal of Modern Physics D, 2009, 18, 2303-2310.	2.1	15
130	Non-classicality from the phase-space flow analysis of the Weyl-Wigner quantum mechanics. Europhysics Letters, 2017, 120, 20002.	2.0	15
131	Order Î±â€²2 terms in the gravitational sector of string effective actions with the inclusion of the dilaton field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 218, 162-168.	4.1	14
132	Threshold Effects and Lorentz Symmetry. Lecture Notes in Physics, 2004, , 96-102.	0.7	14
133	Quantum and classical divide: the gravitational case. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 111-115.	4.1	14
134	A Curvature Principle for the interaction between universes. General Relativity and Gravitation, 2008, 40, 1891-1898.	2.0	14
135	Testing the interaction of dark energy to dark matter through the analysis of virial relaxation of clusters Abell clusters A586 and A1689 using realistic density profiles. General Relativity and Gravitation, 2012, 44, 1073-1088.	2.0	14
136	Inflation with a massive vector field nonminimally coupled to gravity. Physical Review D, 2016, 93, .	4.7	14
137	Quantum to classical transition in the HoÅ™ava-Lifshitz quantum cosmology. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 025-025.	5.4	14
138	Hyopthetical Gravity Control and Possible Influence on Space Propulsion. Journal of Propulsion and Power, 2005, 21, 692-696.	2.2	13
139	Lorentz violating extension of the standard model and theÎ²-decay endpoint. Physical Review D, 2008, 77, .	4.7	13
140	Coupling dark energy with standard model states. Journal of Physics: Conference Series, 2009, 174, 012060.	0.4	13
141	Stability conditions for a noncommutative scalar field coupled to gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 83-89.	4.1	13
142	Constraints on unparticle long range forces from big bang nucleosynthesis bounds on the variation of the gravitational coupling. Physical Review D, 2009, 79, .	4.7	13
143	Astrophysical constraints on unparticle-inspired models of gravity. Physical Review D, 2009, 80, .	4.7	13
144	The Layzer-Irvine equation in theories with non-minimal coupling between matter and curvature. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	5.4	13

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145	White dwarfs in an ungravity-inspired model. Physical Review D, 2016, 93, .	4.7	13
146	Quantum cosmological multidimensional Einstein-Yang-Mills model in anRÃ—S3Ã—Sdtopology. Physical Review D, 1997, 56, 4530-4543.	4.7	12
147	Modular quantum cosmology. Classical and Quantum Gravity, 1999, 16, 2545-2557.	4.0	12
148	Gamma-ray burst, axion emission and string theory dilaton. Astroparticle Physics, 1999, 11, 357-362.	4.3	12
149	Stability of mass varying particle lumps. Physical Review D, 2009, 80, .	4.7	12
150	Dark matter as a dynamic effect due to a non-minimal gravitational coupling with matter (I): Analytical results. Journal of Physics: Conference Series, 2010, 222, 012010.	0.4	12
151	TESTING THE FLYBY ANOMALY WITH THE GNSS CONSTELLATION. International Journal of Modern Physics D, 2012, 21, 1250035.	2.1	12
152	Topological inflation in dual superstring models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 98-102.	4.1	11
153	On the spontaneous breaking of lorentz invariance. Nuclear Physics, Section B, Proceedings Supplements, 2000, 88, 49-56.	0.4	11
154	Inflation with Planck data: A survey of some exotic inflationary models. Physical Review D, 2018, 97, .	4.7	11
155	Phase-space continuity equations for quantum decoherence, purity, von Neumann and Renyi entropies. Journal of Physics: Conference Series, 2019, 1275, 012032.	0.4	11
156	Order Î±â€²2 equivalence of the string equations of motion and the Ïƒ-model weyl invariance conditions. Dependence on the dilaton field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 220, 113-120.	4.1	10
157	Constraints on supergravity chaotic inflationary models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 59-63.	4.1	10
158	Thermodynamic equilibrium conditions for mass varying particle structures. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 684, 96-100.	4.1	10
159	A phase space description of the Earth System in the Anthropocene. Europhysics Letters, 2019, 127, 59001.	2.0	10
160	String theory and cosmology. General Relativity and Gravitation, 1996, 28, 565-572.	2.0	9
161	Spontaneous symmetry breaking in the bulk and the localization of fields on the brane. Physical Review D, 2007, 76, .	4.7	9
162	Cosmic transients, Einsteinâ€™s Equivalence Principle and dark matter halos. Physics of the Dark Universe, 2018, 21, 16-20.	4.9	9

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163	On the interdependence of the structure of string effective actions at different orders in Î±â€². Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 401-406.	4.1	8
164	Viability of nonminimally coupled $$f,(R)$$ f (R) gravity. General Relativity and Gravitation, 2016, 48, 1.	2.0	8
165	Using numerical methods from nonlocal optics to simulate the dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> -body systems in alternative theories of gravity. Physical Review E, 2020, 101, 023301.	2.1	8
166	Primordial density fluctuations in a dual supergravity cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 427, 261-266.	4.1	7
167	DARK ENERGY, DARK MATTER AND GRAVITY. International Journal of Modern Physics D, 2007, 16, 2003-2012.	2.1	7
168	Modeling the nongravitational acceleration during Cassiniâ€™s gravitation experiments. Physical Review D, 2014, 90, .	4.7	7
169	Nonminimally coupled Weyl gravity. Classical and Quantum Gravity, 2019, 36, 235016.	4.0	7
170	Constraining a nonminimally coupled curvature-matter gravity model with ocean experiments. Physical Review D, 2019, 100, .	4.7	7
171	Nonminimally coupled Boltzmann equation: Foundations. Physical Review D, 2020, 102, .	4.7	7
172	Time and Causation. NeuroQuantology, 2009, 7, .	0.2	7
173	The Experimental Status of Special and General Relativity. , 2014, , 463-483.		7
174	TESTING THE BARYON NUMBER OR HYPERCHARGE INTERACTION WITH A NEUTRON INTERFEROMETRIC DEVICE. Modern Physics Letters A, 1986, 01, 383-388.	1.2	6
175	HERACLITEAN TIME PROPOSAL REVISITED. International Journal of Modern Physics D, 1995, 04, 97-103.	2.1	6
176	Phenomenological constraints on a scale-dependent gravitational coupling. Nuclear Physics, Section B, Proceedings Supplements, 1996, 48, 122-127.	0.4	6
177	Topological defect densities in type-I superconducting phase transitions. Physical Review B, 2003, 67, .	3.2	6
178	The Gravitational Quantum Well. Journal of Physics: Conference Series, 2006, 33, 118-130.	0.4	6
179	Noncommutative quantum cosmology. Journal of Physics: Conference Series, 2009, 174, 012053.	0.4	6
180	Gamma-ray bursts and dark energy-dark matter interaction. Monthly Notices of the Royal Astronomical Society, 2010, 409, 750-754.	4.4	6

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181	Black hole solutions of gravity theories with non-minimal coupling between matter and curvature. Classical and Quantum Gravity, 2015, 32, 205009.	4.0	6
182	Hyperbolic orbits of Earth flybys and effects of ungravity-inspired conservative potentials. Classical and Quantum Gravity, 2016, 33, 125021.	4.0	6
183	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>c</mml:mi></mml:mrow></mml:math>expansion of nonminimally coupled curvature-matter gravity models and constraints from planetary precession. Physical Review D, 2017, 95, .	4.7	6
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