

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	A digital contract for restoration of the Earth System mediated by a Planetary Boundary Exchange Unit. Infrastructure Asset Management, 2022, 9, 462-472.	1.6	3
2	Cassini and extra force constraints to nonminimally coupled gravity with a screening mechanism. Physical Review D, 2022, 105, .	4.7	2
3	Generalized phase-space description of nonlinear Hamiltonian systems and Harper-like dynamics. Physical Review A, 2022, 105, .	2.5	4
4	Stability conditions for the Horndeski scalar field gravity model. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 008.	5.4	2
5	An Ostrogradsky instability analysis of non-minimally coupled Weyl connection gravity theories. General Relativity and Gravitation, 2021, 53, 1.	2.0	0
6	Analogue cosmology: using techniques from nonlinear optics to study modified theories of gravity with non-minimal coupling between curvature and matter. , 2021, , .		0
7	Pressureless static solutions in a Newton-Yukawa gravity model. Physical Review D, 2021, 103, .	4.7	3
8	Inflation, phase transitions and the cosmological constant. General Relativity and Gravitation, 2021, 53, 1.	2.0	4
9	Can dark matter drive electroweak symmetry breaking?. Physical Review D, 2020, 102, .	4.7	3
10	Nonminimally coupled Boltzmann equation: Foundations. Physical Review D, 2020, 102, .	4.7	7
11	Using a non-minimal coupling between matter and curvature to sequester the cosmological constant. General Relativity and Gravitation, 2020, 52, 1.	2.0	2
12	Towards a physically motivated planetary accounting framework. Infrastructure Asset Management, 2020, 7, 191-207.	1.6	6
13	Cosmological solutions of the non-minimally coupled Weyl connection gravity theories. Classical and Quantum Gravity, 2020, 37, 085011.	4.0	2
14	A Quantum Field Theory View of Interaction Free Measurements. Foundations of Physics, 2020, 50, 764-771.	1.3	0
15	Using numerical methods from nonlocal optics to simulate the dynamics of N -body systems in alternative theories of gravity. Physical Review E, 2020, 101, 023301.	2.1	8
16	Phase-space continuity equations for quantum decoherence, purity, von Neumann and Renyi entropies. Journal of Physics: Conference Series, 2019, 1275, 012032.	0.4	11
17	Nonminimally coupled Weyl gravity. Classical and Quantum Gravity, 2019, 36, 235016.	4.0	7
18	A phase space description of the Earth System in the Anthropocene. Europhysics Letters, 2019, 127, 59001.	2.0	10

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19	Quantum cloning and teleportation fidelity in the noncommutative phase-space. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 375302.	2.1	4
20	Constraining a nonminimally coupled curvature-matter gravity model with ocean experiments. Physical Review D, 2019, 100, .	4.7	7
21	Relativistic dispersion relation and putative metric structure in noncommutative phase-space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 240-246.	4.1	4
22	Simulating N-body systems for alternative theories of gravity using solvers from nonlocal optics. , 2019, , .		3
23	Quantum information aspects of noncommutative quantum mechanics. Journal of Physics: Conference Series, 2018, 952, 012016.	0.4	3
24	Quantum to classical transition in the Hořava-Lifshitz quantum cosmology. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 025-025.	5.4	14
25	Gravitational waves in theories with a non-minimal curvature-matter coupling. European Physical Journal C, 2018, 78, 1.	3.9	53
26	Collapsing shells and black holes: a quantum analysis. Classical and Quantum Gravity, 2018, 35, 115013.	4.0	3
27	Entangled states and the gravitational quantum well. Europhysics Letters, 2018, 124, 10001.	2.0	3
28	Scale-invariant scalar field dark matter through the Higgs portal. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
29	Cosmic transients, Einstein's Equivalence Principle and dark matter halos. Physics of the Dark Universe, 2018, 21, 16-20.	4.9	9
30	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
31	Inflation with $\langle i \rangle$ Planck $\langle /i \rangle$ data: A survey of some exotic inflationary models. Physical Review D, 2018, 97, .	4.7	11
32	A physical framework for the earth system, Anthropocene equation and the great acceleration. Global and Planetary Change, 2018, 169, 66-69.	3.5	17
33	Using Physics To Capture The Changes To The Earth System In The Anthropocene. , 2018, , .		0
34	Inflation in non-minimal matter-curvature coupling theories. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 021-021.	5.4	23
35	$\langle mml:math \ xmlns:mml="http://www.w3.org/1998/Math/MathML" \ display="inline" \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 1 \langle /mml:mn \rangle \langle mml:mo \rangle \langle /mml:mo \rangle \langle mml:mi \rangle c \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ expansion of nonminimally coupled curvature-matter gravity models and constraints from planetary precession. Physical Review D, 2017, 95, .	4.7	6
36	Estimating the thermally induced acceleration of the New Horizons spacecraft. Physical Review D, 2017, 95, .	4.7	1

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37	Neutron stars, ungravity, and the I-Love-Q relations. <i>Physical Review D</i> , 2017, 96, .	4.7	2
38	Non-classicality from the phase-space flow analysis of the Weyl-Wigner quantum mechanics. <i>Europhysics Letters</i> , 2017, 120, 20002.	2.0	15
39	Hyperbolic orbits of Earth flybys and effects of ungravity-inspired conservative potentials. <i>Classical and Quantum Gravity</i> , 2016, 33, 125021.	4.0	6
40	Vacuum decay in an interacting multiverse. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 328-335.	4.1	16
41	Inflation with a massive vector field nonminimally coupled to gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	14
42	White dwarfs in an ungravity-inspired model. <i>Physical Review D</i> , 2016, 93, .	4.7	13
43	Bell operator and Gaussian squeezed states in noncommutative quantum mechanics. <i>Physical Review D</i> , 2016, 93, .	4.7	20
44	Scalar field dark matter and the Higgs field. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 1-8.	4.1	22
45	On small satellites for oceanography: A survey. <i>Acta Astronautica</i> , 2016, 127, 404-423.	3.2	22
46	Viability of nonminimally coupled $f(R)$ gravity. <i>General Relativity and Gravitation</i> , 2016, 48, 1.	2.0	8
47	Robertson-Schrödinger formulation of Ozawa's uncertainty principle. <i>Journal of Physics: Conference Series</i> , 2015, 626, 012050.	0.4	1
48	Entanglement and separability in the noncommutative phase-space scenario. <i>Journal of Physics: Conference Series</i> , 2015, 626, 012046.	0.4	4
49	Black hole solutions of gravity theories with non-minimal coupling between matter and curvature. <i>Classical and Quantum Gravity</i> , 2015, 32, 205009.	4.0	6
50	A phase-space noncommutative picture of nuclear matter. <i>International Journal of Modern Physics A</i> , 2015, 30, 1550191.	1.5	1
51	Phase-space noncommutative extension of the Robertson-Schrödinger formulation of Ozawa's uncertainty principle. <i>Physical Review D</i> , 2015, 91, .	4.7	21
52	Aspects of phase-space noncommutative quantum mechanics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 750, 6-11.	4.1	60
53	Homogeneous spherically symmetric bodies with a non-minimal coupling between curvature and matter: the choice of the Lagrangian density for matter. <i>General Relativity and Gravitation</i> , 2015, 47, 1.	2.0	42
54	Minimal extension of General Relativity: Alternative gravity model with non-minimal coupling between matter and curvature. <i>International Journal of Geometric Methods in Modern Physics</i> , 2014, 11, 1460003.	2.0	45

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55	Robertson-Schrödinger-type formulation of Ozawa's noise-disturbance uncertainty principle. <i>Physical Review A</i> , 2014, 89, .	2.5	23
56	Phase-space noncommutative formulation of Ozawa's uncertainty principle. <i>Physical Review D</i> , 2014, 90, .	4.7	29
57	Modified Friedmann equation from nonminimally coupled theories of gravity. <i>Physical Review D</i> , 2014, 89, .	4.7	61
58	Modeling the nongravitational acceleration during Cassini's gravitation experiments. <i>Physical Review D</i> , 2014, 90, .	4.7	7
59	The Layzer-Irvine equation in theories with non-minimal coupling between matter and curvature. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 010-010.	5.4	13
60	A perturbative approach for the study of compatibility between nonminimally coupled gravity and Solar System experiments. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012239.	0.4	0
61	The Experimental Status of Special and General Relativity. , 2014, , 463-483.		7
62	The Hamiltonian formalism for scalar fields coupled to gravity in a cosmological background. <i>Annals of Physics</i> , 2013, 338, 1-20.	2.8	5
63	NONCOMMUTATIVE GRAPHENE. <i>International Journal of Modern Physics A</i> , 2013, 28, 1350064.	1.5	30
64	Equivalence between Born-Infeld tachyon and effective real scalar field theories for brane structures in warped geometry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 512-517.	4.1	19
65	Interacting universes and the cosmological constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 719, 200-205.	4.1	17
66	Cosmological perturbations in theories with non-minimal coupling between curvature and matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 029-029.	5.4	38
67	Probing phase-space noncommutativity through quantum beating, missing information, and the thermodynamic limit. <i>Physical Review A</i> , 2013, 88, .	2.5	35
68	Solar System constraints to nonminimally coupled gravity. <i>Physical Review D</i> , 2013, 88, .	4.7	54
69	Entanglement due to noncommutativity in phase space. <i>Physical Review D</i> , 2013, 88, .	4.7	29
70	NONLINEARITIES IN THE QUANTUM MULTIVERSE. <i>International Journal of Modern Physics D</i> , 2013, 22, 1350068.	2.1	1
71	Zen and the Art of Space-Time Manufacturing. <i>EPJ Web of Conferences</i> , 2013, 58, 02001.	0.3	1
72	Wormholes and Time-Machines in Nonminimally Coupled Matter-Curvature Theories of Gravity. <i>EPJ Web of Conferences</i> , 2013, 58, 01008.	0.3	2

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73	Noncanonical phase-space noncommutative black holes. , 2012, , .		0
74	Violation of the Robertson-Schrödinger uncertainty principle and noncommutative quantum mechanics. Physical Review D, 2012, 86, .	4.7	22
75	Mimicking dark matter in galaxy clusters through a nonminimal gravitational coupling with matter. Physical Review D, 2012, 86, .	4.7	75
76	Traversable wormholes and time machines in nonminimally coupled curvature-matter	4.7	71
77	TESTING THE FLYBY ANOMALY WITH THE GNSS CONSTELLATION. International Journal of Modern Physics D, 2012, 21, 1250035.	2.1	12
78	Dynamics of perfect fluids in nonminimally coupled gravity. Physical Review D, 2012, 85, .	4.7	66
79	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
80	Two-scalar-field model for the interaction of dark energy and dark matter. Physical Review D, 2012, 86, .	4.7	25
81	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
82	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
83	Reheating via a generalized nonminimal coupling of curvature to matter. Physical Review D, 2011, 83, .	4.7	88
84	Mimicking the cosmological constant: Constant curvature spherical solutions in a nonminimally coupled model. Physical Review D, 2011, 84, .	4.7	31
85	Hoava-Lifshitz quantum cosmology. Physical Review D, 2011, 84, .	4.7	35
86	Noncommutative Black Holes and the Singularity Problem. Journal of Physics: Conference Series, 2011, 314, 012042.	0.4	3
87	Phase-space noncommutativity and the Dirac equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 4116-4119.	2.1	52
88	Entropic gravity, phase-space noncommutativity and the equivalence principle. Classical and Quantum Gravity, 2011, 28, 125007.	4.0	41
89	Noncanonical phase-space noncommutativity and the Kantowski-Sachs singularity for black holes. Physical Review D, 2011, 84, .	4.7	32
90	USING GLOBAL POSITIONING SYSTEMS TO TEST EXTENSIONS OF GENERAL RELATIVITY. International Journal of Modern Physics D, 2011, 20, 1617-1641.	2.1	5

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91	Noncommutative effects in astrophysical objects: A survey. Journal of Physics: Conference Series, 2010, 222, 012020.	0.4	0
92	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
93	Dark matter as a dynamic effect due to a non-minimal gravitational coupling with matter (II): Numerical results. Journal of Physics: Conference Series, 2010, 222, 012011.	0.4	4
94	Noncommutative black holes. Journal of Physics: Conference Series, 2010, 222, 012033.	0.4	2
95	Estimating Radiative Momentum Transfer Through Thermal Analysis of the Pioneer Anomaly. Space Science Reviews, 2010, 151, 75-91.	8.1	31
96	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
97	Gamma-ray bursts and dark energy-dark matter interaction. Monthly Notices of the Royal Astronomical Society, 2010, 409, 750-754.	4.4	6
98	Mimicking dark matter through a non-minimal gravitational coupling with matter. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 009-009.	5.4	79
99	Stability Conditions For a Noncommutative Scalar Field Coupled to Gravity via the Positive Energy Theorem. , 2010, , .		0
100	Modified theories of gravity with non-minimal curvature-matter coupling. , 2010, , .		0
101	Naturalness and stability of the generalized Chaplygin gas in the seesaw cosmon scenario. Physical Review D, 2010, 81, .	4.7	4
102	Accelerated expansion from a nonminimal gravitational coupling to matter. Physical Review D, 2010, 81, .	4.7	116
103	Towards a noncommutative astrophysics. Physical Review D, 2010, 81, .	4.7	34
104	Unparticle inspired corrections to the gravitational quantum well. Physical Review D, 2010, 82, .	4.7	4
105	Singularity problem and phase-space noncanonical noncommutativity. Physical Review D, 2010, 82, .	4.7	27
106	The Mystical Formula and The Mystery of Khronos. , 2010, , 259-283.		3
107	Coupling dark energy with standard model states. Journal of Physics: Conference Series, 2009, 174, 012060.	0.4	13
108	Stability of mass varying particle lumps. Physical Review D, 2009, 80, .	4.7	12

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109	THE COSMOLOGICAL CONSTANT PROBLEM: A USER'S GUIDE. International Journal of Modern Physics D, 2009, 18, 2303-2310.	2.1	15
110	NONCOMMUTATIVE QUANTUM MECHANICS AND QUANTUM COSMOLOGY. International Journal of Modern Physics A, 2009, 24, 2741-2752.	1.5	23
111	Odyssey: a solar system mission. Experimental Astronomy, 2009, 23, 529-547.	3.7	49
112	Quantum physics exploring gravity in the outer solar system: the SAGAS project. Experimental Astronomy, 2009, 23, 651-687.	3.7	101
113	Advancing fundamental physics with the Laser Astrometric Test of Relativity. Experimental Astronomy, 2009, 27, 27-60.	3.7	26
114	The Abell cluster A586 and the detection of violation of the equivalence principle. General Relativity and Gravitation, 2009, 41, 2839-2846.	2.0	71
115	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
116	Dark energy and the Rutherfordâ€“Soddy radiative decay law. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 231-234.	4.1	3
117	Black holes and phase-space noncommutativity. Physical Review D, 2009, 80, .	4.7	49
118	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
119	Astrophysical constraints on unparticle-inspired models of gravity. Physical Review D, 2009, 80, .	4.7	13
120	A new source for a brane cosmological constant from a modified gravity model in the bulk. Nuclear Physics B, 2009, 807, 56-72.	2.5	5
121	Energy conditions and stability in $f(R)$ gravity. Physical Review D, 2009, 79, .		
122	Noncommutative quantum cosmology. Journal of Physics: Conference Series, 2009, 174, 012053.	0.4	6
123	Time and Causation. NeuroQuantology, 2009, 7, .	0.2	7
124	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
125	A Curvature Principle for the interaction between universes. General Relativity and Gravitation, 2008, 40, 1891-1898.	2.0	14
126	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

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145	Deformation quantization of noncommutative quantum mechanics and dissipation. Journal of Physics: Conference Series, 2007, 67, 012058.	0.4	4
146	Spontaneous symmetry breaking in the bulk and the localization of fields on the brane. Physical Review D, 2007, 76, .	4.7	9
147	Extra force inf(R)modified theories of gravity. Physical Review D, 2007, 75, .	4.7	684
148	The electromagnetic coupling and the dark side of the Universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 648, 14-18.	4.1	3
149	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
150	Generalized Chaplygin gas model, supernovae, and cosmic topology. Physical Review D, 2006, 73, .	4.7	45
151	Lorentz symmetry derived from Lorentz violation in the bulk. Physical Review D, 2006, 74, .	4.7	24
152	Observational constraints on modified gravity models and the PoincarÃ© dodecahedral topology. Physical Review D, 2006, 73, .	4.7	17
153	Gamma Ray Bursts as Cosmological Probes. AIP Conference Proceedings, 2006, , .	0.4	0
154	Supernovae constraints on dark energy and modified gravity models. Journal of Physics: Conference Series, 2006, 33, 197-202.	0.4	3
155	The Gravitational Quantum Well. Journal of Physics: Conference Series, 2006, 33, 118-130.	0.4	6
156	The flight of the bumblebee: solutions from a vector-induced spontaneous Lorentz symmetry breaking model. AIP Conference Proceedings, 2006, , .	0.4	0
157	Perspectives in fundamental physics in space. Acta Astronautica, 2006, 59, 490-498.	3.2	4
158	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
159	Chaplygin inspired inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 121-125.	4.1	51
160	Pioneer anomaly and the Kuiper Belt mass distribution. Classical and Quantum Gravity, 2006, 23, 4625-4635.	4.0	24
161	SCALING OF VARIABLES AND THE RELATION BETWEEN NONCOMMUTATIVE PARAMETERS IN NONCOMMUTATIVE QUANTUM MECHANICS. Modern Physics Letters A, 2006, 21, 795-802.	1.2	87
162	GAMMA RAY BURSTS AS COSMOLOGICAL PROBES. , 2006, , .		0

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163	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
164	Astrophysical constraints on scalar field models. Physical Review D, 2005, 71, .	4.7	34
165	NONCOMMUTATIVE SCALAR FIELD MINIMALLY COUPLED TO GRAVITY. Modern Physics Letters A, 2005, 20, 1359-1369.	1.2	3
166	Chaplygin dark star. Physical Review D, 2005, 72, .	4.7	58
167	Varying electromagnetic coupling and primordial magnetic fields. Physical Review D, 2005, 71, .	4.7	20
168	Noncommutative gravitational quantum well. Physical Review D, 2005, 72, .	4.7	232
169	Bounds on cubic Lorentz-violating terms in the fermionic dispersion relation. Physical Review D, 2005, 71, .	4.7	18
170	Vacuum solutions of a gravity model with vector-induced spontaneous Lorentz symmetry breaking. Physical Review D, 2005, 72, .	4.7	68
171	Hypothetical Gravity Control and Possible Influence on Space Propulsion. Journal of Propulsion and Power, 2005, 21, 692-696.	2.2	13
172	Supernovae constraints on models of dark energy reexamined. Physical Review D, 2005, 71, .	4.7	74
173	Cosmological acceleration, varying couplings, and Lorentz breaking. Physical Review D, 2004, 69, .	4.7	108
174	Time evolution of the fine structure constant in a two-field quintessence model. Physical Review D, 2004, 70, .	4.7	20
175	The Pioneer anomaly in the context of the braneworld scenario. Classical and Quantum Gravity, 2004, 21, 3309-3321.	4.0	43
176	Revival of the unified dark energy"dark matter model?. Physical Review D, 2004, 70, .	4.7	213
177	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
178	Threshold Effects and Lorentz Symmetry. Lecture Notes in Physics, 2004, , 96-102.	0.7	14
179	Letter: Generalized Chaplygin Gas Model: Dark Energy"Dark Matter Unification and CMBR Constraints. General Relativity and Gravitation, 2003, 35, 2063-2069.	2.0	97
180	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

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181	Generalized Chaplygin gas and cosmic microwave background radiation constraints. <i>Physical Review D</i> , 2003, 67, .	4.7	222
182	Topological defect densities in type-I superconducting phase transitions. <i>Physical Review B</i> , 2003, 67, .	3.2	6
183	Supergravity inflation on the brane. <i>Physical Review D</i> , 2003, 67, .	4.7	24
184	Noncommutative scalar field coupled to gravity. <i>Physical Review D</i> , 2003, 67, .	4.7	32
185	Tachyonic inflation in the braneworld scenario. <i>Physical Review D</i> , 2003, 67, .	4.7	78
186	Noncommutative field theory and violation of translation invariance. <i>Journal of High Energy Physics</i> , 2003, 2003, 013-013.	4.7	59
187	Ultracold neutrons, quantum effects of gravity and the weak equivalence principle. <i>Classical and Quantum Gravity</i> , 2003, 20, L61-L66.	4.0	40
188	Expected Constraints on the Generalized Chaplygin Equation of State from Future Supernova Experiments and Gravitational Lensing Statistics. <i>Astrophysical Journal</i> , 2003, 599, 829-838.	4.5	109
189	A two-field quintessence model. <i>Physical Review D</i> , 2002, 65, .	4.7	65
190	$N=1$ supergravity chaotic inflation in the braneworld scenario. <i>Physical Review D</i> , 2002, 65, .	4.7	21
191	Generalized Chaplygin gas, accelerated expansion, and dark-energy-matter unification. <i>Physical Review D</i> , 2002, 66, .	4.7	1,594
192	Letter: Ultra-High Energy Cosmic Rays and Symmetries of Spacetime. <i>General Relativity and Gravitation</i> , 2002, 34, 707-713.	2.0	36
193	Fitting BOOMERANG and MAXIMA-1 data with an "Einstein-Yang-Mills cosmological model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 498, 62-66.	4.1	20
194	Cosmological constraints on an invisibly decaying Higgs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 518, 276-281.	4.1	99
195	On the spontaneous breaking of lorentz invariance. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 88, 49-56.	0.4	11
196	Nonminimal coupling and quintessence. <i>Physical Review D</i> , 2000, 61, .	4.7	297
197	Proposed astrophysical test of Lorentz invariance. <i>Physical Review D</i> , 2000, 61, .	4.7	95
198	Self-interacting dark matter and the Higgs boson. <i>Physical Review D</i> , 2000, 62, .	4.7	141

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199	Modular quantum cosmology. <i>Classical and Quantum Gravity</i> , 1999, 16, 2545-2557.	4.0	12
200	Gamma-ray burst, axion emission and string theory dilaton. <i>Astroparticle Physics</i> , 1999, 11, 357-362.	4.3	12
201	Nucleosynthesis constraints on a scale-dependent new intermediate range interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 452, 108-114.	4.1	15
202	Primordial magnetic fields via spontaneous breaking of Lorentz invariance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 455, 96-103.	4.1	119
203	Compactification, Vacuum Energy and Quintessence. <i>General Relativity and Gravitation</i> , 1999, 31, 1461-1472.	2.0	38
204	Axion-Dilaton Coupling and Gamma-Ray Bursts. , 1998, 261, 225-228.		3
205	Primordial density fluctuations in a dual supergravity cosmology. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 427, 261-266.	4.1	7
206	Lorentz invariance and the cosmological constant. <i>Classical and Quantum Gravity</i> , 1997, 14, 2785-2791.	4.0	41
207	Quantum cosmological multidimensional Einstein-Yang-Mills model in an R^4-S^3 -Sd topology. <i>Physical Review D</i> , 1997, 56, 4530-4543.	4.7	12
208	CPT violation and baryogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 395, 178-183.	4.1	177
209	Dualities, CPT symmetry and dimensional reduction in string theory. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1997, 57, 91-103.	0.4	1
210	Weak Lensing, Shear and the Cosmic Virial Theorem in a Model with a Scale-Dependent Gravitational Coupling. <i>General Relativity and Gravitation</i> , 1997, 29, 851-857.	2.0	2
211	Phenomenological constraints on a scale-dependent gravitational coupling. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 48, 122-127.	0.4	6
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