Elcio Abdalla

List of Publications by Year
in descending order

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125 papers	4,427 citations	147801 31 h-index	110387 64 g-index
125 all docs	125 docs citations	125 times ranked	1282 citing authors

#	Article	IF	Citations
1	Transition of the dark energy equation of state in an interacting holographic dark energy model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 624, 141-146.	4.1	524
2	Constraints on the interacting holographic dark energy model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 637, 357-361.	4.1	243
3	Thermodynamics of an accelerated expanding universe. Physical Review D, 2006, 74, .	4.7	223
4	Interacting dark energy and dark matter: Observational constraints from cosmological parameters. Nuclear Physics B, 2007, 778, 69-84.	2.5	173
5	Quasinormal modes of Reissner-NordstrÃ¶m Anti-de Sitter black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 79-88.	4.1	154
6	Constraints on the dark energy from the holographic connection to the small l CMB suppression. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 609, 200-205.	4.1	146
7	Thermodynamical description of the interaction between holographic dark energy and dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 1-6.	4.1	143
8	Stability of the curvature perturbation in dark sectors' mutual interacting models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 139-145.	4.1	135
9	Signature of the interaction between dark energy and dark matter in galaxy clusters. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 107-110.	4.1	123
10	Constraints on dark energy from holography. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 611, 21-26.	4.1	117
11	Relating Friedmann equation to Cardy formula in universes with cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 394-398.	4.1	107
12	Testing the interaction between dark energy and dark matter via the latest observations. Physical Review D, 2011, 83, .	4.7	107
13	The generalized second law of thermodynamics in the accelerating universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 86-91.	4.1	105
14	Holographic explanation of wide-angle power correlation suppression in the cosmic microwave background radiation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 013-013.	5.4	103
15	Observational constraints on the dark energy and dark matter mutual coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 111-119.	4.1	101
16	Scalar wave propagation in topological black hole backgrounds. Physical Review D, 2002, 65, .	4.7	81
17	Signature of the interaction between dark energy and dark matter in observations. Physical Review D, 2010, 82, .	4.7	81
18	Field theory model for dark matter and dark energy in interaction. Physical Review D, 2009, 79, .	4.7	72

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19	FRIEDMANN EQUATION AND CARDY FORMULA CORRESPONDENCE IN BRANE UNIVERSES. Modern Physics Letters A, 2002, 17, 23-29.	1.2	68
20	Object picture of quasinormal ringing on the background of small Schwarzschild antiâ€“de Sitter black holes. Physical Review D, 2001, 63, .	4.7	66
21	Stability of Reissner-NordstrÃ¶m black hole in de Sitter background under charged scalar perturbation. Physical Review D, 2014, 90, .	4.7	61
22	Scalar field perturbations of the Schwarzschild black hole in the GÃ¶del universe. Physical Review D, 2005, 71, .	4.7	56
23	The imprint of the interaction between dark sectors in galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	5.4	55
24	Support of dS/CFT correspondence from perturbations of three-dimensional spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 538, 435-441.	4.1	47
25	Updating QCD2. Physics Reports, 1996, 265, 253-368.	25.6	46
26	Interacting dark energy: possible explanation for 21-cm absorption at cosmic dawn. European Physical Journal C, 2018, 78, 1.	3.9	43
27	Anomaly in the nonlocal quantum charge of theCPnâˆ’1model. Physical Review D, 1981, 23, 1800-1805.	4.7	36
28	Quasinormal modes for the Vaidya metric. Physical Review D, 2006, 74, .	4.7	34
29	A PRELIMINARY ANALYSIS OF THE ENERGY TRANSFER BETWEEN THE DARK SECTORS OF THE UNIVERSE. Modern Physics Letters A, 2009, 24, 1689-1698.	1.2	33
30	Analytic study of the effect of dark energy-dark matter interaction on the growth of structures. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 009-009.	5.4	33
31	Universal horizons and black holes in gravitational theories with broken Lorentz symmetry. International Journal of Modern Physics D, 2014, 23, 1443004.	2.1	32
32	Dirac-bracket quantization of bosonized chiral two-dimensional QCD. Physical Review D, 1987, 36, 3190-3195.	4.7	31
33	DYNAMICS AND HOLOGRAPHIC DISCRETENESS OF TACHYONIC INFLATION. Modern Physics Letters A, 2003, 18, 31-39.	1.2	30
34	The Schenberg spherical gravitational wave detector: the first commissioning runs. Classical and Quantum Gravity, 2008, 25, 114042.	4.0	30
35	Entropy and Holography Constraints for Inhomogeneous Universes. Physical Review Letters, 2000, 85, 5507-5510.	7.8	29
36	Separating expansion and collapse in general fluid models with heat flux. Physical Review D, 2013, 88, .	4.7	27

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37	Quasinormal modes in a time-dependent black hole background. Physical Review D, 2005, 71, .	4.7	26
38	A matrix method for quasinormal modes: Kerr and Kerrâ€“Sen black holes. Modern Physics Letters A, 2017, 32, 1750134.	1.2	26
39	Transition of equation of state of effective dark energy in the Dvali-Gabadadze-Porrati model with bulk contents. Physical Review D, 2007, 76, .	4.7	25
40	Screening in Three-Dimensional QED. Physical Review Letters, 1998, 80, 238-240.	7.8	24
41	A model for dark energy decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 786-790.	4.1	24
42	Holographic thermalization in charged dilaton anti-de Sitter spacetime. Nuclear Physics B, 2015, 896, 569-586.	2.5	24
43	Holography in (2+1)-dimensional cosmological models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 466, 122-126.	4.1	23
44	Holography and the generalized second law of thermodynamics in (2+1)-dimensional cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 471, 346-351.	4.1	23
45	Plausible upper limit on the number ofe-foldings. Physical Review D, 2004, 69, .	4.7	23
46	Publisherâ€™s Note: Stability of Reissner-Nordstrol̀m black hole in de Sitter background under charged scalar perturbation [Phys. Rev. D90, 044042 (2014)]. Physical Review D, 2014, 90, .	4.7	23
47	Cosmological black holes from self-gravitating fields. Physical Review D, 2014, 89, .	4.7	23
48	Nonlocal charge of theCPnâ^'1model and its supersymmetric extension to all orders. Physical Review D, 1983, 27, 825-836.	4.7	22
49	Shortest cut in brane cosmology. Physical Review D, 2002, 65, .	4.7	22
50	Anomaly cancellations in the supersymmetricCPnâ^'1model. Physical Review D, 1982, 25, 452-460.	4.7	21
51	Information transport by sine-Gordon solitons in microtubules. Physica A: Statistical Mechanics and Its Applications, 2001, 301, 169-173.	2.6	21
52	Realistic fluids as source for dynamically accreting black holes in a cosmological background. Physical Review D, 2012, 86, .	4.7	21
53	Metastable dark energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 271-276.	4.1	21
54	J-PAS: forecasts on interacting dark energy from baryon acoustic oscillations and redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2019, 488, 78-88.	4.4	20

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55	Quasinormal mode characterization of evaporating mini black holes. Journal of High Energy Physics, 2007, 2007, 086-086.	4.7	19
56	Integrable non-linear ? models with fermions. Communications in Mathematical Physics, 1986, 104, 123-150.	2.2	18
57	Shortcuts for graviton propagation in a six-dimensional brane world model. Nuclear Physics B, 2002, 644, 201-222.	2.5	18
58	Area Quantization in Quasi-Extreme Black Holes. Modern Physics Letters A, 2003, 18, 1435-1440.	1.2	18
59	Signature of the scattering between dark sectors in large scale cosmic microwave background anisotropies. Physical Review D, 2012, 85, .	4.7	18
60	Holographic thermalization with a chemical potential from Born-Infeld electrodynamics. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
61	(Anti-) de Sitter electrically charged black-hole solutions in higher-derivative gravity. Europhysics Letters, 2016, 114, 60006.	2.0	17
62	Screening in Two-Dimensional QCD. International Journal of Modern Physics A, 1997, 12, 4539-4557.	1.5	16
63	Shortcuts in Cosmological Branes. International Journal of Theoretical Physics, 2004, 43, 801-854.	1.2	16
64	The mass and the coupling of the dark particle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 89-91.	4.1	15
65	Deep connection between<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 50 337 Td [(stretchy="false")] TJ ET Review D, 2011, 84, .	4.7	15
66	Phase transition in a self-gravitating planar gas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 339-344.	4.1	14
67	Aspects of higher order gravity and holography. Physical Review D, 2002, 65, .	4.7	14
68	Holographic superconductors in HoÅ™avaâ€“Lifshitz gravity. International Journal of Modern Physics D, 2015, 24, 1550038.	2.1	14
69	Horizon instability of massless scalar perturbations of an extreme Reissner-NordstrÃ¶m-AdS black hole. Journal of High Energy Physics, 2013, 2013, 1.	4.7	13
70	Early dark energy and its interaction with dark matter. Physical Review D, 2015, 92, .	4.7	13
71	Some features ofCPnâˆ’1models with fermions. Physical Review D, 1984, 29, 1851-1853.	4.7	12
72	Correlation functions in super Liouville theory. Physical Review Letters, 1992, 68, 1641-1644.	7.8	12

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73	Perturbations of black<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-branes. Physical Review D, 2010, 81, .	4.7	12
74	Scalar field propagation in higher dimensional black holes at a Lifshitz point. Physical Review D, 2013, 88, .	4.7	12
75	Entropy bound for a rotating system from antiâ€“de Sitter black holes. Physical Review D, 2000, 62, .	4.7	11
76	SCALE INVARIANCE IN A PERTURBED EINSTEIN-DE SITTER COSMOLOGY. Fractals, 2001, 09, 451-462.	3.7	11
77	Non-virialized clusters for detection of dark energyâ€“dark matter interaction. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2-13.	4.4	11
78	The dark sector cosmology. International Journal of Modern Physics D, 2020, 29, 2030014.	2.1	11
79	New Electrically Charged Black Hole in Higher Derivative Gravity. Brazilian Journal of Physics, 2017, 47, 419-425.	1.4	10
80	Quasinormal modes for the Vaidya metric in asymptotically antiâ€“de Sitter spacetime. Physical Review D, 2019, 100, .	4.7	10
81	Baryon acoustic oscillations from Integrated Neutral Gas Observations: Broadband corrugated horn construction and testing. Experimental Astronomy, 2020, 50, 125-144.	3.7	10
82	On the motion of particles in covariant HoÅ™ravaâ€“Lifshitz gravity and the meaning of the A-field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 311-314.	4.1	9
83	The algebra of non-local charges in non-linear sigma models. Communications in Mathematical Physics, 1994, 166, 379-396.	2.2	8
84	BLACK HOLE ENTROPY BY THE BRICK-WALL METHOD IN FOUR AND FIVE DIMENSIONS WITH U(1) CHARGES. Modern Physics Letters A, 2001, 16, 2495-2503.	1.2	8
85	Perturbations of Schwarzschild black holes in laboratories. Classical and Quantum Gravity, 2007, 24, 5901-5909.	4.0	8
86	A Precise Formulation of the Third Law ofÂThermodynamics. Journal of Statistical Physics, 2009, 134, 781-792.	1.2	8
87	Holographic phase transition and quasinormal modes in Lovelock gravity. Physical Review D, 2014, 90, .	4.7	8
88	Quantisation of the multidimensional rotor. Brazilian Journal of Physics, 2001, 31, 80-83.	1.4	7
89	Entropy bound for a charged rotating system. Physical Review D, 2001, 64, .	4.7	7
90	Teoria quÃ¢ntica da gravitaÃ§Ã£o: cordas e teoria M. Revista Brasileira De Ensino De Fisica, 2005, 27, 147-155.	0.2	7

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91	Shortcuts in domain walls and the horizon problem. Physical Review D, 2003, 67, .	4.7	6
92	Interacting Dark Energy in the Dark SU(2) R Model. Brazilian Journal of Physics, 2018, 48, 364-369.	1.4	6
93	THE ROLE OF DARK MATTER INTERACTION IN GALAXY CLUSTERS. Modern Physics Letters A, 2012, 27, 1250144.	1.2	5
94	Holographic quenches towards a Lifshitz point. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
95	A model displaying extremely inhomogeneous matter distribution in general relativity. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 117-122.	2.6	4
96	Gauge-invariant subtraction scheme for massive quantum electrodynamics. Physical Review D, 1978, 18, 3634-3638.	4.7	3
97	Chiral order parameter of the Wilson fermion formulation in a latticeCPNâˆ'1model. Physical Review D, 1985, 31, 3213-3220.	4.7	3
98	Numerical simulations of the O(3) andCP1models using the Langevin equations and the Metropolis algorithm. Physical Review D, 1990, 41, 571-580.	4.7	3
99	Two-dimensional induced gravity in reduced phase-space. Europhysics Letters, 1998, 44, 436-441.	2.0	3
100	EXTREME BLACK HOLE ENTROPY OBTAINED IN AN OPERATIONAL APPROACH. International Journal of Modern Physics A, 2001, 16, 1367-1375.	1.5	3
101	Holographic Superconductor of Regular Phantom Black Hole. Brazilian Journal of Physics, 2016, 46, 767-776.	1.4	3
102	Quantization of a classical real configuration in the CP2model. Physical Review D, 1980, 21, 2365-2369.	4.7	2
103	Non linear sigma models: A geometrical approach in quantum field theory. , 1985, , 140-158.		2
104	Quantization procedure for non-Abelian chiral bosons. Physical Review D, 1989, 40, 491-494.	4.7	2
105	Loop scattering in two-dimensional QCD. Physical Review D, 1995, 52, R6660-R6663.	4.7	2
106	Decay amplitudes in two-dimensional QCD. Physical Review D, 1998, 57, 3777-3785.	4.7	2
107	Entropy of extreme three-dimensional charged black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 208-212.	4.1	2
108	Holography in an early universe with asymmetric inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 489, 383-389.	4.1	2

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109	Brane world cosmological perturbations. Physical Review D, 2004, 70, .	4.7	2
110	WMAP constraint on theP-term inflationary model. Physical Review D, 2004, 69, .	4.7	2
111	Shortcuts in cosmological branes. Nuclear Physics, Section B, Proceedings Supplements, 2004, 127, 1-7.	0.4	2
112	NRPyCritCol & SFcollapse1D: an open-source, user-friendly toolkit to study critical phenomena. Classical and Quantum Gravity, 0, , .	4.0	2
113	Dirac-bracket quantization of chiral scalar two-dimensional QED. Physical Review D, 1989, 39, 1784-1786.	4.7	1
114	Gravitational instabilities and faster evolving density perturbations. Physical Review D, 1999, 59, .	4.7	1
115	Bound-State Structure of Two-Dimensional QCD: Formalism and Numerical Results. Annals of Physics, 1999, 277, 74-93.	2.8	1
116	New superconducting states in the Hubbard model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 291, 301-305.	2.1	1
117	SCALAR COSMOLOGICAL PERTURBATION IN AN INFLATIONARY BRANE WORLD DRIVEN BY THE BULK INFLATON. International Journal of Modern Physics A, 2004, 19, 4085-4100.	1.5	1
118	Gravitational clustering to all perturbative orders. Brazilian Journal of Physics, 2001, 31, 42-44.	1.4	1
119	On the quantization procedure for indefinite metric fields, and non-compact sigma models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 147, 441-444.	4.1	0
120	Stochastic quantization of the nonlinear sigma model and the background field method. International Journal of Theoretical Physics, 1994, 33, 1241-1250.	1.2	0
121	CAN THREE-DIMENSIONAL EXTREME BLACK HOLES DEVELOP FROM THEIR NONEXTREME COUNTERPARTS?. Modern Physics Letters A, 1999, 14, 1329-1334.	1.2	0
122	Integrable Models: from Dynamical Solutions to String Theory. Brazilian Journal of Physics, 2012, 42, 306-318.	1.4	0
123	Baryon Acoustic Oscillations from Integrated Neutral Gas Observations: an instrument to observe the 21cm hydrogen line in the redshift range 0.13 < z < 0.45 â€“ status update. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201096.	0.8	0
124	The Shortest Cut in Brane Cosmology. Lecture Notes in Physics, 2003, , 261-276.	0.7	0
125	TESTING THE dS/CFT CORRESPONDENCE FROM PERTURBATIONS IN DE SITTER SPACETIMES. , 2006, , .		0