Elcio Abdalla

List of Publications by Year
in descending order

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	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
2	The dark sector cosmology. International Journal of Modern Physics D, 2020, 29, 2030014.	2.1	11
3	Baryon acoustic oscillations from Integrated Neutral Gas Observations: Broadband corrugated horn construction and testing. Experimental Astronomy, 2020, 50, 125-144.	3.7	10
4	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
5	Quasinormal modes for the Vaidya metric in asymptotically antiâ€"de Sitter spacetime. Physical Review D, 2019, 100, .	4.7	10
6	Interacting dark energy: possible explanation for 21-cm absorption at cosmic dawn. European Physical Journal C, 2018, 78, 1.	3.9	43
7	Interacting Dark Energy in the Dark SU(2) R Model. Brazilian Journal of Physics, 2018, 48, 364-369.	1.4	6
8	Metastable dark energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 271-276.	4.1	21
9	New Electrically Charged Black Hole in Higher Derivative Gravity. Brazilian Journal of Physics, 2017, 47, 419-425.	1.4	10
10	A matrix method for quasinormal modes: Kerr and Kerrâ€"Sen black holes. Modern Physics Letters A, 2017, 32, 1750134.	1.2	26
11	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
12	Holographic Superconductor of Regular Phantom Black Hole. Brazilian Journal of Physics, 2016, 46, 767-776.	1.4	3
13	(Anti-) de Sitter electrically charged black-hole solutions in higher-derivative gravity. Europhysics Letters, 2016, 114, 60006.	2.0	17
14	Holographic quenches towards a Lifshitz point. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
15	Early dark energy and its interaction with dark matter. Physical Review D, 2015, 92, .	4.7	13
16	Holographic thermalization in charged dilaton anti-de Sitter spacetime. Nuclear Physics B, 2015, 896, 569-586.	2.5	24
17	Holographic superconductors in HoÅ™avaâ€"Lifshitz gravity. International Journal of Modern Physics D, 2015, 24, 1550038.	2.1	14
18	Holographic thermalization with a chemical potential from Born-Infeld electrodynamics. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18

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19	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
20	Holographic phase transition and quasinormal modes in Lovelock gravity. Physical Review D, 2014, 90, .	4.7	8
21	Publisherâ€™s Note: Stability of Reissner-NordstroÌ^m black hole in de Sitter background under charged scalar perturbation [Phys. Rev. D90, 044042 (2014)]. Physical Review D, 2014, 90, .	4.7	23
22	Stability of Reissner-NordstrÃ¶m black hole in de Sitter background under charged scalar perturbation. Physical Review D, 2014, 90, .	4.7	61
23	Cosmological black holes from self-gravitating fields. Physical Review D, 2014, 89, .	4.7	23
24	Universal horizons and black holes in gravitational theories with broken Lorentz symmetry. International Journal of Modern Physics D, 2014, 23, 1443004.	2.1	32
25	A model for dark energy decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 786-790.	4.1	24
26	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
27	Separating expansion and collapse in general fluid models with heat flux. Physical Review D, 2013, 88, .	4.7	27
28	Scalar field propagation in higher dimensional black holes at a Lifshitz point. Physical Review D, 2013, 88, .	4.7	12
29	Signature of the scattering between dark sectors in large scale cosmic microwave background anisotropies. Physical Review D, 2012, 85, .	4.7	18
30	THE ROLE OF DARK MATTER INTERACTION IN GALAXY CLUSTERS. Modern Physics Letters A, 2012, 27, 1250144.	1.2	5
31	Realistic fluids as source for dynamically accreting black holes in a cosmological background. Physical Review D, 2012, 86, .	4.7	21
32	Integrable Models: from Dynamical Solutions to String Theory. Brazilian Journal of Physics, 2012, 42, 306-318.	1.4	0
33	On the motion of particles in covariant HoÅ™avaâ€"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
34	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 Td (stretchy="false">)</mml:m Review D, 2011, 84, .	4.7	13
35	Testing the interaction between dark energy and dark matter via the latest observations. Physical Review D, 2011, 83, .	4.7	107
36	The imprint of the interaction between dark sectors in galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	5.4	55

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37	Signature of the interaction between dark energy and dark matter in observations. Physical Review D, 2010, 82, .	4.7	81
38	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
39	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
40	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
41	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
42	A Precise Formulation of the Third Law of Thermodynamics. Journal of Statistical Physics, 2009, 134, 781-792.	1.2	8
43	Field theory model for dark matter and dark energy in interaction. Physical Review D, 2009, 79, .	4.7	72
44	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
45	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
46	The Schenberg spherical gravitational wave detector: the first commissioning runs. Classical and Quantum Gravity, 2008, 25, 114042.	4.0	30
47	Perturbations of Schwarzschild black holes in laboratories. Classical and Quantum Gravity, 2007, 24, 5901-5909.	4.0	8
48	Interacting dark energy and dark matter: Observational constraints from cosmological parameters. Nuclear Physics B, 2007, 778, 69-84.	2.5	173
49	Quasinormal mode characterization of evaporating mini black holes. Journal of High Energy Physics, 2007, 2007, 086-086.	4.7	19
50	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
51	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
52	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
53	Thermodynamics of an accelerated expanding universe. Physical Review D, 2006, 74, .	4.7	223
54	Quasinormal modes for the Vaidya metric. Physical Review D, 2006, 74, .	4.7	34

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55	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
56	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
57	TESTING THE dS/CFT CORRESPONDENCE FROM PERTURBATIONS IN DE SITTER SPACETIMES. , 2006, , .		0
58	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
59	Constraints on dark energy from holography. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 611, 21-26.	4.1	117
60	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
61	Teoria quântica da gravitação: cordas e teoria M. Revista Brasileira De Ensino De Fisica, 2005, 27, 147-155.	0.2	7
62	Quasinormal modes in a time-dependent black hole background. Physical Review D, 2005, 71, .	4.7	26
63	Scalar field perturbations of the Schwarzschild black hole in the Gödel universe. Physical Review D, 2005, 71, .	4.7	56
64	Brane world cosmological perturbations. Physical Review D, 2004, 70, .	4.7	2
65	WMAP constraint on theP-term inflationary model. Physical Review D, 2004, 69, .	4.7	2
66	Plausible upper limit on the number ofe-foldings. Physical Review D, 2004, 69, .	4.7	23
67	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
68	Shortcuts in Cosmological Branes. International Journal of Theoretical Physics, 2004, 43, 801-854.	1.2	16
69	Shortcuts in cosmological branes. Nuclear Physics, Section B, Proceedings Supplements, 2004, 127, 1-7.	0.4	2
70	A model displaying extremely inhomogeneous matter distribution in general relativity. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 117-122.	2.6	4
71	Shortcuts in domain walls and the horizon problem. Physical Review D, 2003, 67, .	4.7	6
72	DYNAMICS AND HOLOGRAPHIC DISCRETENESS OF TACHYONIC INFLATION. Modern Physics Letters A, 2003, 18, 31-39.	1.2	30

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73	Area Quantization in Quasi-Extreme Black Holes. Modern Physics Letters A, 2003, 18, 1435-1440.	1.2	18
74	The Shortest Cut in Brane Cosmology. Lecture Notes in Physics, 2003, , 261-276.	0.7	0
75	Shortest cut in brane cosmology. Physical Review D, 2002, 65, .	4.7	22
76	Aspects of higher order gravity and holography. Physical Review D, 2002, 65, .	4.7	14
77	Scalar wave propagation in topological black hole backgrounds. Physical Review D, 2002, 65, .	4.7	81
78	FRIEDMANN EQUATION AND CARDY FORMULA CORRESPONDENCE IN BRANE UNIVERSES. Modern Physics Letters A, 2002, 17, 23-29.	1.2	68
79	Shortcuts for graviton propagation in a six-dimensional brane world model. Nuclear Physics B, 2002, 644, 201-222.	2.5	18
80	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
81	Quantisation of the multidimensional rotor. Brazilian Journal of Physics, 2001, 31, 80-83.	1.4	7
82	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
83	New superconducting states in the Hubbard model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 291, 301-305.	2.1	1
84	Information transport by sine-Gordon solitons in microtubules. Physica A: Statistical Mechanics and Its Applications, 2001, 301, 169-173.	2.6	21
85	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
86	SCALE INVARIANCE IN A PERTURBED EINSTEIN-DE SITTER COSMOLOGY. Fractals, 2001, 09, 451-462.	3.7	11
87	EXTREME BLACK HOLE ENTROPY OBTAINED IN AN OPERATIONAL APPROACH. International Journal of Modern Physics A, 2001, 16, 1367-1375.	1.5	3
88	Object picture of quasinormal ringing on the background of small Schwarzschild anti–de Sitter black holes. Physical Review D, 2001, 63, .	4.7	66
89	Entropy bound for a charged rotating system. Physical Review D, 2001, 64, .	4.7	7
90	Gravitational clustering to all perturbative orders. Brazilian Journal of Physics, 2001, 31, 42-44.	1.4	1

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91	Quasinormal modes of Reissner-Nordström Anti-de Sitter black holes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 79-88.	4.1	154
92	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
93	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
94	Entropy bound for a rotating system from anti–de Sitter black holes. Physical Review D, 2000, 62, .	4.7	11
95	Entropy and Holography Constraints for Inhomogeneous Universes. Physical Review Letters, 2000, 85, 5507-5510.	7.8	29
96	Gravitational instabilities and faster evolving density perturbations. Physical Review D, 1999, 59, .	4.7	1
97	CAN THREE-DIMENSIONAL EXTREME BLACK HOLES DEVELOP FROM THEIR NONEXTREME COUNTERPARTS?. Modern Physics Letters A, 1999, 14, 1329-1334.	1.2	0
98	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
99	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
100	Bound-State Structure of Two-Dimensional QCD: Formalism and Numerical Results. Annals of Physics, 1999, 277, 74-93.	2.8	1
101	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
102	Screening in Three-Dimensional QED. Physical Review Letters, 1998, 80, 238-240.	7.8	24
103	Decay amplitudes in two-dimensional QCD. Physical Review D, 1998, 57, 3777-3785.	4.7	2
104	Two-dimensional induced gravity in reduced phase-space. Europhysics Letters, 1998, 44, 436-441.	2.0	3
105	Screening in Two-Dimensional QCD. International Journal of Modern Physics A, 1997, 12, 4539-4557.	1.5	16
106	Updating QCD2. Physics Reports, 1996, 265, 253-368.	25.6	46
107	Loop scattering in two-dimensional QCD. Physical Review D, 1995, 52, R6660-R6663.	4.7	2
108	The algebra of non-local charges in non-linear sigma models. Communications in Mathematical Physics, 1994, 166, 379-396.	2.2	8

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109	Stochastic quantization of the nonlinear sigma model and the background field method. International Journal of Theoretical Physics, 1994, 33, 1241-1250.	1.2	0
110	Correlation functions in super Liouville theory. Physical Review Letters, 1992, 68, 1641-1644.	7.8	12
111	Numerical simulations of the O(3) and CP1 models using the Langevin equations and the Metropolis algorithm. Physical Review D, 1990, 41, 571-580.	4.7	3
112	Quantization procedure for non-Abelian chiral bosons. Physical Review D, 1989, 40, 491-494.	4.7	2
113	Dirac-bracket quantization of chiral scalar two-dimensional QED. Physical Review D, 1989, 39, 1784-1786.	4.7	1
114	Dirac-bracket quantization of bosonized chiral two-dimensional QCD. Physical Review D, 1987, 36, 3190-3195.	4.7	31
115	Integrable non-linear ? models with fermions. Communications in Mathematical Physics, 1986, 104, 123-150.	2.2	18
116	Chiral order parameter of the Wilson fermion formulation in a lattice CPnâˆ'1 model. Physical Review D, 1985, 31, 3213-3220.	4.7	3
117	Non linear sigma models: A geometrical approach in quantum field theory. , 1985, , 140-158.		2
118	Some features of CPnâˆ'1 models with fermions. Physical Review D, 1984, 29, 1851-1853.	4.7	12
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	Nonlocal charge of the CPnâˆ'1 model and its supersymmetric extension to all orders. Physical Review D, 1983, 27, 825-836.	4.7	22
121	Anomaly cancellations in the supersymmetric CPnâˆ'1 model. Physical Review D, 1982, 25, 452-460.	4.7	21
122	Anomaly in the nonlocal quantum charge of the CPnâˆ'1 model. Physical Review D, 1981, 23, 1800-1805.	4.7	36
123	Quantization of a classical real configuration in the CP2 model. Physical Review D, 1980, 21, 2365-2369.	4.7	2
124	Gauge-invariant subtraction scheme for massive quantum electrodynamics. Physical Review D, 1978, 18, 3634-3638.	4.7	3
125	NRPyCritCol & SFcollapse1D: an open-source, user-friendly toolkit to study critical phenomena. Classical and Quantum Gravity, 0, , .	4.0	2