Emil T Akhmedov

List of Publications by Year
in descending order

65 papers	1,776 citations	331670 21 h-index	276875 41 g-index
65 all docs	65 docs citations	65 times ranked	514 citing authors

#	Article	IF	Citations
1	Hawking temperature in the tunneling picture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 124-128.	4.1	271
2	A remark on the AdS/CFT correspondence and the renormalization group flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 152-158.	4.1	151
3	SUBTLETIES IN THE QUASI-CLASSICAL CALCULATION OF HAWKING RADIATION. International Journal of Modern Physics D, 2008, 17, 2453-2458.	2.1	142
4	THERMAL RADIATION OF VARIOUS GRAVITATIONAL BACKGROUNDS. International Journal of Modern Physics A, 2007, 22, 1705-1715.	1.5	127
5	LECTURE NOTES ON INTERACTING QUANTUM FIELDS IN DE SITTER SPACE. International Journal of Modern Physics D, 2014, 23, 1430001.	2.1	117
6	ON THE RELATION BETWEEN UNRUH AND SOKOLOVâ€“TERNOV EFFECTS. International Journal of Modern Physics A, 2007, 22, 4797-4823.	1.5	60
7	Quantum theory of strings in an Abelian Higgs model. Physical Review D, 1996, 53, 2087-2095.	4.7	58
8	IR divergences and kinetic equation in de Sitter space. (Poincare patch; principal series). Journal of High Energy Physics, 2012, 2012, 1.	4.7	50
9	Hawking radiation and secularly growing loop corrections. Physical Review D, 2016, 93, .	4.7	50
10	Interacting field theories in de Sitter space are nonunitary. Physical Review D, 2008, 78, .	4.7	47
11	Infrared dynamics of the massive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï•</mml:mi><mml:mn>4</mml:mn></mml:msup></mml:math>theory on de Sitter space. Physical Review D, 2013, 88, .	4.7	45
12	REAL OR IMAGINARY? ON PAIR CREATION IN DE SITTER SPACE. Modern Physics Letters A, 2010, 25, 2815-2823.	1.2	38
13	A few more comments on secularly growing loop corrections in strong electric fields. Journal of High Energy Physics, 2015, 2015, 1.	4.7	38
14	Secularly growing loop corrections in strong electric fields. Journal of High Energy Physics, 2014, 2014, 1.	4.7	37
15	Characters of different secular effects in various patches of de Sitter space. Physical Review D, 2019, 99, .	4.7	34
16	Solution of the Dyson-Schwinger equation on a de Sitter background in the infrared limit. Physical Review D, 2012, 86, .	4.7	33
17	De sitter space and perpetuum mobile. Physics of Atomic Nuclei, 2012, 75, 525-529.	0.4	32
18	Infrared dynamics of massive scalars from the complementary series in de Sitter space. Physical Review D, 2017, 96, .	4.7	32

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19	Physical meaning and consequences of the loop infrared divergences in global de Sitter space. Physical Review D, 2013, 87, .	4.7	30
20	Classical radiation by free-falling charges in deÂSitter spacetime. Physical Review D, 2010, 82, .	4.7	26
21	On the physical meaning of the Unruh effect. JETP Letters, 2008, 86, 615-619.	1.4	24
22	Dynamical Casimir effect and loop corrections. Physical Review D, 2017, 96, .	4.7	18
23	Comments on QED with background electric fields. New Journal of Physics, 2009, 11, 103048.	2.9	16
24	Propagators and Gaussian effective actions in various patches of de Sitter space. Physical Review D, 2019, 100, .	4.7	15
25	Heating up an environment around black holes and inside de Sitter space. Physical Review D, 2021, 103, .	4.7	15
26	Expansion in Feynman graphs as simplicial string theory. JETP Letters, 2004, 80, 218-225.	1.4	14
27	A simple way to take into account back reaction on pair creation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 687, 267-270.	4.1	14
28	Quantum heating as an alternative of reheating. Physical Review D, 2018, 97, .	4.7	14
29	On a modification of the boundary-state formalism in off-shell string theory. JETP Letters, 2003, 77, 1-6.	1.4	13
30	Running couplings and triviality of field theories on noncommutative spaces. Physical Review D, 2001, 64, .	4.7	12
31	Symmetries at the black hole horizon. Physical Review D, 2017, 96, .	4.7	12
32	Quantum fields in the static de Sitter universe. Physical Review D, 2020, 102, .	4.7	12
33	Non-commutative Gross-Neveu model at large N. Journal of High Energy Physics, 2001, 2001, 009-009.	4.7	11
34	Hints on integrability in the Wilsonian/holographic renormalization group. JETP Letters, 2011, 93, 545-550.	1.4	11
35	Quantum fields in the future Rindler wedge. Physical Review D, 2021, 104, .	4.7	11
36	Comparative study of loop contributions in AdS and dS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 138-142.	4.1	10

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37	Curved space equilibration versus flat space thermalization: A short review. Modern Physics Letters A, 2021, 36, 2130020.	1.2	10
38	Selected Special Functions for Fundamental Physics. SpringerBriefs in Physics, 2019, , .	0.7	10
39	Quantization in background scalar fields. Physical Review D, 2020, 101, .	4.7	9
40	On unification of RR couplings. Journal of High Energy Physics, 2001, 2001, 040-040.	4.7	8
41	Secularly growing loop corrections in scalar wave background. Journal of High Energy Physics, 2020, 2020, 1.	4.7	8
42	D-instantons probing D3-branes and the AdS-CFT correspondence. Physical Review D, 1999, 59, .	4.7	7
43	Toward a Theory of Non-Abelian Tensor Fields. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	7
44	Method for distinguishing very compact stellar objects from black holes. Physical Review D, 2016, 93, .	4.7	7
45	Dyon condensation and the Aharonov-Bohm effect. JETP Letters, 1998, 67, 389-393.	1.4	6
46	Comment on the Surface Exponential for Tensor Fields. JETP Letters, 2005, 81, 639.	1.4	6
47	Exact statement for Wilsonian and holographic renormalization group. Physical Review D, 2010, 81, .	4.7	6
48	Ultraviolet phenomena in AdS self-interacting quantum field theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
49	Fermionic string from Abelian Higgs model with monopoles and Î˜-term. JETP Letters, 1996, 64, 82-86.	1.4	5
50	Gluings of surfaces with polygonal boundaries. Functional Analysis and Its Applications, 2009, 43, 245-253.	0.4	5
51	Interacting quantum fields in various charts of antiâ€“de Sitter spacetime. Physical Review D, 2021, 103, .	4.7	5
52	Free energy and entropy in Rindler and de Sitter space-times. Physical Review D, 2022, 105, .	4.7	5
53	On the relation between effective supersymmetric actions in different dimensions. Physics of Atomic Nuclei, 2003, 66, 2238-2244.	0.4	4
54	Out-of-Equilibrium Two-Dimensional Yukawa Theory in a Strong Scalar Wave Background. Proceedings of the Steklov Institute of Mathematics, 2020, 309, 12-30.	0.3	4

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55	Correspondence between supersymmetric Yangâ€“Mills and supergravity theories. Physics-Uspekhi, 2001, 44, 955-971.	2.2	3
56	Simplicial vs. continuum string theory and loop equations. JETP Letters, 2005, 81, 357-360.	1.4	3
57	Experimental Tests of Quantum Gravity and Exotic Quantum Field Theory Effects. Advances in High Energy Physics, 2014, 2014, 1-2.	1.1	3
58	Currents of created pairs in strong electric fields. International Journal of Modern Physics A, 2021, 36, 2150134.	1.5	2
59	Thermalization with Non-Zero Initial Anomalous Quantum Averages. Universe, 2022, 8, 162.	2.5	2
60	Loop corrections to cosmological particle creation. Physical Review D, 2022, 105, .	4.7	2
61	The theory of non-Abelian tensor fields: Gauge transformations and curvature. Theoretical and Mathematical Physics(Russian Federation), 2006, 147, 509-523.	0.9	1
62	Review of modern string theory. Physics of Atomic Nuclei, 2009, 72, 1574-1600.	0.4	1
63	Title is missing!. International Journal of Modern Physics A, 2000, 15, 1.	1.5	1
64	Non-Abelian structures in BSFT and RR couplings. AIP Conference Proceedings, 2002, , .	0.4	0
65	Corrections to the Aretakis-type behavior of the metric due to an infalling particle. Physical Review D, 2019, 99, .	4.7	0