

Thanu Padmanabhan

List of Publications by Year in descending order

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354
papers

17,131
citations

24978

57
h-index

17055

122
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361
all docs

361
docs citations

361
times ranked

3646
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmological constant—the weight of the vacuum. <i>Physics Reports</i> , 2003, 380, 235-320.	10.3	2,619
2	Accelerated expansion of the universe driven by tachyonic matter. <i>Physical Review D</i> , 2002, 66, .	1.6	797
3	Thermodynamical aspects of gravity: new insights. <i>Reports on Progress in Physics</i> , 2010, 73, 046901.	8.1	581
4	Particle production and complex path analysis. <i>Physical Review D</i> , 1999, 60, .	1.6	547
5	Statistical mechanics of gravitating systems. <i>Physics Reports</i> , 1990, 188, 285-362.	10.3	523
6	Gravity and the thermodynamics of horizons. <i>Physics Reports</i> , 2005, 406, 49-125.	10.3	453
7	Cosmology with tachyon field as dark energy. <i>Physical Review D</i> , 2003, 67, .	1.6	447
8	Classical and quantum thermodynamics of horizons in spherically symmetric spacetimes. <i>Classical and Quantum Gravity</i> , 2002, 19, 5387-5408.	1.5	441
9	Can the clustered dark matter and the smooth dark energy arise from the same scalar field?. <i>Physical Review D</i> , 2002, 66, .	1.6	389
10	Dark energy and gravity. <i>General Relativity and Gravitation</i> , 2008, 40, 529-564.	0.7	303
11	<i>WMAP</i> constraints on low redshift evolution of dark energy. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005, 356, L11-L16.	1.2	282
12	Hawking radiation in different coordinate settings: complex paths approach. <i>Classical and Quantum Gravity</i> , 2002, 19, 2671-2687.	1.5	280
13	Thermodynamic route to field equations in Lanczos-Lovelock gravity. <i>Physical Review D</i> , 2006, 74, .	1.6	264
14	Viscous universes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 120, 433-436.	0.9	262
15	A theoretician's analysis of the supernova data and the limitations in determining the nature of dark energy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 823-834.	1.6	239
16	EQUIPARTITION OF ENERGY IN THE HORIZON DEGREES OF FREEDOM AND THE EMERGENCE OF GRAVITY. <i>Modern Physics Letters A</i> , 2010, 25, 1129-1136.	0.5	235
17	Cosmological parameters from supernova observations: A critical comparison of three data sets. <i>Astronomy and Astrophysics</i> , 2005, 429, 807-818.	2.1	217
18	Entropy of static spacetimes and microscopic density of states. <i>Classical and Quantum Gravity</i> , 2004, 21, 4485-4494.	1.5	192

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19	METHOD OF COMPLEX PATHS AND GENERAL COVARIANCE OF HAWKING RADIATION. <i>Modern Physics Letters A</i> , 2001, 16, 571-578.	0.5	185
20	Limitations on the operational definition of spacetime events and quantum gravity. <i>Classical and Quantum Gravity</i> , 1987, 4, L107-L113.	1.5	179
21	Observational constraints on low redshift evolution of dark energy: How consistent are different observations?. <i>Physical Review D</i> , 2005, 72, .	1.6	168
22	Lanczos's Lovelock models of gravity. <i>Physics Reports</i> , 2013, 531, 115-171.	10.3	162
23	A boundary term for the gravitational action with null boundaries. <i>General Relativity and Gravitation</i> , 2016, 48, 1.	0.7	139
24	Einstein's equations as a thermodynamic identity: The cases of stationary axisymmetric horizons and evolving spherically symmetric horizons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 652, 338-342.	1.5	133
25	Entropy of null surfaces and dynamics of spacetime. <i>Physical Review D</i> , 2007, 75, .	1.6	130
26	Physical significance of planck length. <i>Annals of Physics</i> , 1985, 165, 38-58.	1.0	119
27	Duality and Zero-Point Length of Spacetime. <i>Physical Review Letters</i> , 1997, 78, 1854-1857.	2.9	116
28	General relativity from a thermodynamic perspective. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	0.7	112
29	Surface density of spacetime degrees of freedom from equipartition law in theories of gravity. <i>Physical Review D</i> , 2010, 81, .	1.6	105
30	Dark Energy: Mystery of the Millennium. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	103
31	Decoherence in the density matrix describing quantum three-geometries and the emergence of classical spacetime. <i>Physical Review D</i> , 1989, 39, 2924-2932.	1.6	95
32	Notes on semiclassical gravity. <i>Annals of Physics</i> , 1989, 196, 296-344.	1.0	93
33	Is gravitational entropy quantized?. <i>Physical Review D</i> , 2008, 78, .	1.6	92
34	Holography of gravitational action functionals. <i>Physical Review D</i> , 2006, 74, .	1.6	90
35	Vacuum fluctuations of energy density can lead to the observed cosmological constant. <i>Classical and Quantum Gravity</i> , 2005, 22, L107-L112.	1.5	81
36	Finite-time response of inertial and uniformly accelerated Unruh - DeWitt detectors. <i>Classical and Quantum Gravity</i> , 1996, 13, 2061-2079.	1.5	79

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37	FROM GRAVITONS TO GRAVITY: MYTHS AND REALITY. International Journal of Modern Physics D, 2008, 17, 367-398.	0.9	76
38	Quasinormal modes in Schwarzschild-de Sitter spacetime: A simple derivation of the level spacing of the frequencies. Physical Review D, 2004, 69, .	1.6	74
39	Viable cosmology with a scalar field coupled to the trace of the stress tensor. Physical Review D, 2003, 67, .	1.6	71
40	Quasi-normal modes: a simple derivation of the level spacing of the frequencies. Classical and Quantum Gravity, 2004, 21, L1-L6.	1.5	70
41	Planck length as the lower bound to all physical length scales. General Relativity and Gravitation, 1985, 17, 215-221.	0.7	69
42	Holographic gravity and the surface term in the Einstein-Hilbert action. Brazilian Journal of Physics, 2005, 35, 362-372.	0.7	69
43	Thermodynamic structure of Lanczos-Lovelock field equations from near-horizon symmetries. Physical Review D, 2009, 79, .	1.6	68
44	Entropy density of spacetime and the Navier-Stokes fluid dynamics of null surfaces. Physical Review D, 2011, 83, .	1.6	68
45	Emergent perspective of gravity and dark energy. Research in Astronomy and Astrophysics, 2012, 12, 891-916.	0.7	68
46	Essay: The Holography of Gravity Encoded in a Relation Between Entropy, Horizon Area, and Action for Gravity. General Relativity and Gravitation, 2002, 34, 2029-2035.	0.7	67
47	GRAVITY: A NEW HOLOGRAPHIC PERSPECTIVE. International Journal of Modern Physics D, 2006, 15, 1659-1675.	0.9	66
48	THERMODYNAMICS OF HORIZONS: A COMPARISON OF SCHWARZSCHILD, RINDLER AND de SITTER SPACETIMES. Modern Physics Letters A, 2002, 17, 923-942.	0.5	65
49	Thermodynamical interpretation of the geometrical variables associated with null surfaces. Physical Review D, 2015, 92, .	1.6	65
50	Hypothesis of path integral duality. I. Quantum gravitational corrections to the propagator. Physical Review D, 1998, 57, 6206-6215.	1.6	64
51	Antonov instability and gravothermal catastrophe - Revisited. Astrophysical Journal, Supplement Series, 1989, 71, 651.	3.0	63
52	Lessons from classical gravity about the quantum structure of spacetime. Journal of Physics: Conference Series, 2011, 306, 012001.	0.3	62
53	Emergent gravity paradigm: Recent progress. Modern Physics Letters A, 2015, 30, 1540007.	0.5	62
54	PROBES OF THE VACUUM STRUCTURE OF QUANTUM FIELDS IN CLASSICAL BACKGROUNDS. International Journal of Modern Physics D, 2002, 11, 1-34.	0.9	59

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55	On the semiclassical limit of the Wheeler-DeWitt equation. <i>Classical and Quantum Gravity</i> , 1990, 7, 411-426.	1.5	58
56	Initial state of matter fields and trans-Planckian physics: Can CMB observations disentangle the two?. <i>Physical Review D</i> , 2005, 71, .	1.6	58
57	Noether current from the surface term of gravitational action, Virasoro algebra, and horizon entropy. <i>Physical Review D</i> , 2012, 86, .	1.6	58
58	IS GRAVITY AN INTRINSICALLY QUANTUM PHENOMENON? DYNAMICS OF GRAVITY FROM THE ENTROPY OF SPACE-TIME AND THE PRINCIPLE OF EQUIVALENCE. <i>Modern Physics Letters A</i> , 2002, 17, 1147-1158.	0.5	57
59	Zero-point length from string fluctuations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 633, 627-630.	1.5	56
60	Creation-field cosmology: A possible solution to singularity, horizon, and flatness problems. <i>Physical Review D</i> , 1985, 32, 1928-1934.	1.6	54
61	ENTROPY OF HORIZONS, COMPLEX PATHS AND QUANTUM TUNNELLING. <i>Modern Physics Letters A</i> , 2004, 19, 2637-2643.	0.5	54
62	Concept of temperature in multi-horizon spacetimes: analysis of Schwarzschild-De Sitter metric. <i>General Relativity and Gravitation</i> , 2007, 39, 1789-1811.	0.7	53
63	Scaling properties of non-linear gravitational clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1994, 271, 976-980.	1.6	51
64	Non-linear density evolution from an improved spherical collapse model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 314, 279-289.	1.6	51
65	Noether current, horizon Virasoro algebra, and entropy. <i>Physical Review D</i> , 2012, 85, .	1.6	51
66	Structure of the gravitational action and its relation with horizon thermodynamics and emergent gravity paradigm. <i>Physical Review D</i> , 2013, 87, .	1.6	50
67	Modelling the non-linear gravitational clustering in the expanding Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 278, L29-L33.	1.6	49
68	Quantum Structure of Spacetime and Entropy of Schwarzschild Black Holes. <i>Physical Review Letters</i> , 1998, 81, 4297-4300.	2.9	49
69	Variational principle for gravity with null and non-null boundaries: a unified boundary counter-term. <i>European Physical Journal C</i> , 2016, 76, 1.	1.4	49
70	Semianalytic Approach to Understanding the Distribution of Neutral Hydrogen in the Universe: Comparison of Simulations with Observations. <i>Astrophysical Journal</i> , 2001, 559, 29-40.	1.6	48
71	Gravity, Gauge Theories and Quantum Cosmology. , 1986, , .		47
72	Cosmological constant from the emergent gravity perspective. <i>International Journal of Modern Physics D</i> , 2014, 23, 1430011.	0.9	47

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73	Action principle for the fluid-gravity correspondence and emergent gravity. <i>Physical Review D</i> , 2012, 85, .	1.6	45
74	Transfer of power in non-linear gravitational clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 286, 1023-1031.	1.6	43
75	Event horizon of a Schwarzschild black hole: Magnifying glass for Planck length physics. <i>Physical Review D</i> , 1999, 59, .	1.6	43
76	Patterns in Nonlinear Gravitational Clustering: A Numerical Investigation. <i>Astrophysical Journal</i> , 1996, 466, 604.	1.6	43
77	GRAVITY AS ELASTICITY OF SPACETIME: A PARADIGM TO UNDERSTAND HORIZON THERMODYNAMICS AND COSMOLOGICAL CONSTANT. <i>International Journal of Modern Physics D</i> , 2004, 13, 2293-2298.	0.9	42
78	UNDERSTANDING OUR UNIVERSE: CURRENT STATUS AND OPEN ISSUES. , 2005, , 175-204.		42
79	CosMIn: THE SOLUTION TO THE COSMOLOGICAL CONSTANT PROBLEM. <i>International Journal of Modern Physics D</i> , 2013, 22, 1342001.	0.9	42
80	Acceptable Density Perturbations from Inflation Due to Quantum Gravitational Damping. <i>Physical Review Letters</i> , 1988, 60, 2229-2230.	2.9	41
81	Hypothesis of path integral duality. II. Corrections to quantum field theoretic results. <i>Physical Review D</i> , 1998, 58, .	1.6	41
82	Casimir effect confronts cosmological constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 641, 6-10.	1.5	39
83	Quantum cosmology via path integrals. <i>Physics Reports</i> , 1983, 100, 151-200.	10.3	38
84	Semiclassical approximations for gravity and the issue of backreaction. <i>Classical and Quantum Gravity</i> , 1989, 6, 533-555.	1.5	38
85	Non-linear evolution of density perturbations using the approximate constancy of the gravitational potential. <i>Monthly Notices of the Royal Astronomical Society</i> , 1994, 266, 227-237.	1.6	38
86	Semi-analytic approach to understanding the distribution of neutral hydrogen in the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 322, 561-575.	1.6	38
87	Entropy density of spacetime as a relic from quantum gravity. <i>Physical Review D</i> , 2014, 90, .	1.6	38
88	Quantum Field Theory. <i>Graduate Texts in Physics</i> , 2016, , .	0.1	38
89	Dark Energy and Its Implications for Gravity. <i>Advanced Science Letters</i> , 2009, 2, 174-183.	0.2	38
90	Evolution of spacetime arises due to the departure from holographic equipartition in all Lanczos-Lovelock theories of gravity. <i>Physical Review D</i> , 2014, 90, .	1.6	37

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91	Spacetime with zero point length is two-dimensional at the Planck scale. <i>General Relativity and Gravitation</i> , 2016, 48, 1.	0.7	37
92	CosmologicalN-body simulations. <i>Pramana - Journal of Physics</i> , 1997, 49, 161-192.	0.9	36
93	The atoms of space, gravity and the cosmological constant. <i>International Journal of Modern Physics D</i> , 2016, 25, 1630020.	0.9	36
94	Holography in action. <i>Physical Review D</i> , 2010, 82, .	1.6	35
95	Radiation from collapsing shells, semiclassical backreaction, and black hole formation. <i>Physical Review D</i> , 2009, 80, .	1.6	34
96	Geometrical variables with direct thermodynamic significance in Lanczos-Lovelock gravity. <i>Physical Review D</i> , 2014, 90, .	1.6	34
97	Why does an accelerated detector click?. <i>Classical and Quantum Gravity</i> , 1985, 2, 117-126.	1.5	32
98	Phase volume occupied by a test particle around an incipient black hole. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 136, 203-205.	0.9	32
99	Inflation for Astronomers. <i>Annual Review of Astronomy and Astrophysics</i> , 1991, 29, 325-362.	8.1	32
100	Why do we observe a small but nonzero cosmological constant?. <i>Classical and Quantum Gravity</i> , 2002, 19, L167-L173.	1.5	32
101	Making inflation work: Damping of density perturbations due to Planck energy cutoff. <i>Physical Review D</i> , 1989, 39, 2100-2107.	1.6	31
102	Gravity as an emergent phenomenon: A conceptual description. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	31
103	Response of Unruhâ€™DeWitt detector with time-dependent acceleration. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 690, 201-206.	1.5	31
104	Some aspects of field equations in generalized theories of gravity. <i>Physical Review D</i> , 2011, 84, .	1.6	31
105	Neutral hydrogen at high redshifts as a probe of structure formation - II. Line profile of a protocluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995, 272, 544-550.	1.6	30
106	Gravity: the inside story. <i>General Relativity and Gravitation</i> , 2008, 40, 2031-2036.	0.7	29
107	Gravitational field equations near an arbitrary null surface expressed as a thermodynamic identity. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	29
108	Response of an accelerated detector coupled to the stress-energy tensor. <i>Classical and Quantum Gravity</i> , 1987, 4, 1397-1407.	1.5	28

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109	A NEW PERSPECTIVE ON GRAVITY AND DYNAMICS OF SPACE-TIME. International Journal of Modern Physics D, 2005, 14, 2263-2269.	0.9	28
110	Entropy increase during physical processes for black holes in Lanczos-Lovelock gravity. Physical Review D, 2012, 86, .	1.6	28
111	Distribution Function of the Atoms of Spacetime and the Nature of Gravity. Entropy, 2015, 17, 7420-7452.	1.1	28
112	General covariance, accelerated frames and the particle concept. Astrophysics and Space Science, 1982, 83, 247-268.	0.5	27
113	Ideal gas in a strong gravitational field: Area dependence of entropy. Physical Review D, 2011, 83, .	1.6	27
114	Conformal invariance, gravity and massive gauge theories. Classical and Quantum Gravity, 1985, 2, L105-L108.	1.5	26
115	SOME FUNDAMENTAL ASPECTS OF SEMICLASSICAL AND QUANTUM GRAVITY. International Journal of Modern Physics A, 1989, 04, 4735-4818.	0.5	26
116	Structure of Lanczos-Lovelock Lagrangians in critical dimensions. General Relativity and Gravitation, 2011, 43, 1549-1570.	0.7	26
117	TOPOLOGICAL INTERPRETATION OF THE HORIZON TEMPERATURE. Modern Physics Letters A, 2003, 18, 2903-2911.	0.5	25
118	WHY DOES GRAVITY IGNORE THE VACUUM ENERGY?. International Journal of Modern Physics D, 2006, 15, 2029-2058.	0.9	25
119	Physical interpretation of quantum field theory in noninertial coordinate systems. Physical Review Letters, 1990, 64, 2471-2474.	2.9	24
120	Radiation from a charged particle and radiation reaction reexamined. Physical Review D, 1998, 57, 7241-7250.	1.6	24
121	Understanding the origin of CMB constraints on dark energy. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	24
122	A PHYSICAL INTERPRETATION OF GRAVITATIONAL FIELD EQUATIONS. AIP Conference Proceedings, 2010, , .	0.3	24
123	HYPOTHESIS OF PATH INTEGRAL DUALITY: APPLICATIONS TO QED. International Journal of Modern Physics D, 2001, 10, 351-365.	0.9	23
124	Particle creation, classicality and related issues in quantum field theory: I. Formalism and toy models. General Relativity and Gravitation, 2008, 40, 661-708.	0.7	23
125	Quantum field theory in de Sitter and quasi-de Sitter spacetimes revisited. Physical Review D, 2013, 87, .	1.6	23
126	A short note on the boundary term for the Hilbert action. Modern Physics Letters A, 2014, 29, 1450037.	0.5	23

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127	Quantum theory in external electromagnetic and gravitational fields: A comparison of some conceptual issues. <i>Pramana - Journal of Physics</i> , 1991, 37, 179-233.	0.9	22
128	A quantum peek inside the black hole event horizon. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	22
129	A comparison between semiclassical gravity and semiclassical electrodynamics. <i>Classical and Quantum Gravity</i> , 1991, 8, L185-L192.	1.5	21
130	Response of distance measures to the equation of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 533-538.	1.6	21
131	Advanced Topics in Cosmology: A Pedagogical Introduction. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	21
132	Two aspects of black hole entropy in Lanczos-Lovelock models of gravity. <i>Physical Review D</i> , 2012, 85, .	1.6	21
133	Thermality and heat content of horizons from infinitesimal coordinate transformations. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	21
134	Entropy density of spacetime from the zero point length. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 748, 67-69.	1.5	21
135	A novel derivation of the boundary term for the action in Lanczos-Lovelock gravity. <i>General Relativity and Gravitation</i> , 2017, 49, 1.	0.7	21
136	Demystifying the constancy of the Ermakov-Lewis invariant for a time-dependent oscillator. <i>Modern Physics Letters A</i> , 2018, 33, 1830005.	0.5	21
137	Quantum conformal fluctuations in a singular space-time. <i>Nature</i> , 1982, 295, 677-678.	13.7	20
138	UNCERTAINTY PRINCIPLE AND THE QUANTUM FLUCTUATIONS OF THE SCHWARZSCHILD LIGHT CONES. <i>International Journal of Modern Physics A</i> , 1986, 01, 491-498.	0.5	20
139	Gravity from Spacetime Thermodynamics. <i>Astrophysics and Space Science</i> , 2003, 285, 407-417.	0.5	19
140	Do we really understand the cosmos?. <i>Comptes Rendus Physique</i> , 2017, 18, 275-291.	0.3	19
141	Cosmic information, the cosmological constant and the amplitude of primordial perturbations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 773, 81-85.	1.5	19
142	An approach to quantum gravity. <i>Physical Review D</i> , 1983, 28, 745-755.	1.6	18
143	On the quantum structure of horizons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 173, 43-45.	1.5	18
144	Finite entanglement entropy from the zero-point area of spacetime. <i>Physical Review D</i> , 2010, 82, .	1.6	18

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145	Momentum density of spacetime and the gravitational dynamics. <i>General Relativity and Gravitation</i> , 2016, 48, 1.	0.7	18
146	Nonlinear Gravitational Clustering: Dreams of a Paradigm. <i>Astrophysical Journal</i> , 1998, 493, 509-518.	1.6	18
147	The problems of singularity particle horizon and flatness in quantum cosmology. <i>Annals of Physics</i> , 1983, 150, 289-306.	1.0	17
148	Neutral hydrogen at high redshifts as a probe of structure formation - III. Radio maps from TV-body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 289, 671-680.	1.6	17
149	Standard Cosmology and Alternatives: A Critical Appraisal. <i>Annual Review of Astronomy and Astrophysics</i> , 2001, 39, 211-248.	8.1	17
150	Essay: Why Gravity Has No Choice: Bulk Spacetime Dynamics Is Dictated by Information Entanglement Across Horizons. <i>General Relativity and Gravitation</i> , 2003, 35, 2097-2103.	0.7	17
151	Particle creation, classicality and related issues in quantum field theory: II. Examples from field theory. <i>General Relativity and Gravitation</i> , 2008, 40, 709-747.	0.7	17
152	Gravity and quantum theory: Domains of conflict and contact. <i>International Journal of Modern Physics D</i> , 2020, 29, 2030001.	0.9	17
153	Gravity and is Thermodynamics. <i>Current Science</i> , 2015, 109, 2236.	0.4	17
154	Path integral duality modified propagators in spacetimes with constant curvature. <i>Physical Review D</i> , 2009, 80, .	1.6	16
155	Nonrelativistic limit of quantum field theory in inertial and noninertial frames and the principle of equivalence. <i>Physical Review D</i> , 2011, 84, .	1.6	16
156	Indistinguishability of thermal and quantum fluctuations. <i>Classical and Quantum Gravity</i> , 2015, 32, 202001.	1.5	16
157	Entropy of a generic null surface from its associated Virasoro algebra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 763, 347-351.	1.5	16
158	Information retrieval from black holes. <i>Physical Review D</i> , 2016, 94, .	1.6	16
159	Extracting Information about the Initial State from the Black Hole Radiation. <i>Physical Review Letters</i> , 2016, 116, 051301.	2.9	16
160	The role of general relativity in the uncertainty principle. <i>Classical and Quantum Gravity</i> , 1986, 3, 911-920.	1.5	15
161	Equipartition energy, Noether energy and boundary term in gravitational action. <i>General Relativity and Gravitation</i> , 2012, 44, 2681-2686.	0.7	15
162	Zel'dovich approximation and the probability distribution for the smoothed density field in the nonlinear regime. <i>Astrophysical Journal</i> , 1993, 410, 482.	1.6	15

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163	A definition for time in quantum cosmology. <i>Pramana - Journal of Physics</i> , 1990, 35, L199-L204.	0.9	14
164	Scaling Relations for Gravitational Clustering in Two Dimensions. <i>Astrophysical Journal</i> , 1998, 495, 25-28.	1.6	14
165	Zero modes and divergence of entanglement entropy. <i>Physical Review D</i> , 2014, 90, .	1.6	14
166	The atoms of spacetime and the cosmological constant. <i>Journal of Physics: Conference Series</i> , 2017, 880, 012008.	0.3	14
167	Quantum correlators in Friedmann spacetimes: The omnipresent de Sitter spacetime and the invariant vacuum noise. <i>Physical Review D</i> , 2018, 98, .	1.6	14
168	Inverting a normal harmonic oscillator: physical interpretation and applications. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	0.7	14
169	AN ATTEMPT TO EXPLAIN THE SMALLNESS OF THE COSMOLOGICAL CONSTANT. <i>International Journal of Modern Physics A</i> , 1988, 03, 1593-1602.	0.5	13
170	Plane waves viewed from an accelerated frame: Quantum physics in a classical setting. <i>Physical Review D</i> , 1997, 56, 6692-6694.	1.6	13
171	Gravity's immunity from vacuum: the holographic structure of semiclassical action. <i>General Relativity and Gravitation</i> , 2006, 38, 1547-1552.	0.7	13
172	Evolution of quantum field, particle content, and classicality in the three stage universe. <i>Physical Review D</i> , 2013, 88, .	1.6	13
173	Obtaining the non-relativistic quantum mechanics from quantum field theory: issues, folklores and facts. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	13
174	Constraints on $\hat{\Omega}_B$, $\hat{\Omega}_m$, and h from MAXIMA and BOOMERANG. <i>Astrophysical Journal</i> , 2001, 555, 125-129.	1.6	13
175	Stationary states in a quantum gravity model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 84, 361-363.	0.9	12
176	Constraints on the shape of the density spectrum from COBE and galaxy surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 259, 41P-46P.	1.6	12
177	Combining general relativity and quantum theory: points of conflict and contact. <i>Classical and Quantum Gravity</i> , 2002, 19, 3551-3566.	1.5	12
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