

# Matt Visser

## List of Publications by Year in descending order

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328  
papers

18,166  
citations

13099

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122  
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329  
all docs

329  
docs citations

329  
times ranked

4379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analogue Gravity. Living Reviews in Relativity, 2005, 8, 12.	26.7	753
2	Acoustic black holes: horizons, ergospheres and Hawking radiation. Classical and Quantum Gravity, 1998, 15, 1767-1791.	4.0	573
3	Traversable wormholes: Some simple examples. Physical Review D, 1989, 39, 3182-3184.	4.7	456
4	Jerk, snap and the cosmological equation of state. Classical and Quantum Gravity, 2004, 21, 2603-2615.	4.0	440
5	An exotic class of Kaluza-Klein models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 159, 22-25.	4.1	438
6	Analogue Gravity. Living Reviews in Relativity, 2011, 14, 3.	26.7	435
7	Traversable wormholes from surgically modified Schwarzschild spacetimes. Nuclear Physics B, 1989, 328, 203-212.	2.5	375
8	Traversable Wormholes with Arbitrarily Small Energy Condition Violations. Physical Review Letters, 2003, 90, 201102.	7.8	372
9	Stable gravastars – an alternative to black holes?. Classical and Quantum Gravity, 2004, 21, 1135-1151.	4.0	345
10	Thin-shell wormholes: Linearization stability. Physical Review D, 1995, 52, 7318-7321.	4.7	342
11	Gravastars must have anisotropic pressures. Classical and Quantum Gravity, 2005, 22, 4189-4202.	4.0	252
12	Geometric structure of the generic static traversable wormhole throat. Physical Review D, 1997, 56, 4745-4755.	4.7	250
13	Quantum gravity without Lorentz invariance. Journal of High Energy Physics, 2009, 2009, 033-033.	4.7	247
14	Zeta functions and the Casimir energy. Nuclear Physics B, 1988, 310, 163-180.	2.5	237
15	Dynamic wormholes, antitrapped surfaces, and energy conditions. Physical Review D, 1998, 58, .	4.7	233
16	Cosmography: Cosmology without the Einstein equations. General Relativity and Gravitation, 2005, 37, 1541-1548.	2.0	230
17	Phenomenologically Viable Lorentz-Violating Quantum Gravity. Physical Review Letters, 2009, 102, 251601.	7.8	226
18	Lorentz symmetry breaking as a quantum field theory regulator. Physical Review D, 2009, 80, .	4.7	206

#	ARTICLE	IF	CITATIONS
19	Null Energy Condition in Dynamic Wormholes. <i>Physical Review Letters</i> , 1998, 81, 746-749.	7.8	202
20	Natural wormholes as gravitational lenses. <i>Physical Review D</i> , 1995, 51, 3117-3120.	4.7	193
21	TWILIGHT FOR THE ENERGY CONDITIONS?. <i>International Journal of Modern Physics D</i> , 2002, 11, 1553-1560.	2.1	193
22	Analogue gravity from Bose-Einstein condensates. <i>Classical and Quantum Gravity</i> , 2001, 18, 1137-1156.	4.0	190
23	ESSENTIAL AND INESSENTIAL FEATURES OF HAWKING RADIATION. <i>International Journal of Modern Physics D</i> , 2003, 12, 649-661.	2.1	178
24	SAKHAROV'S INDUCED GRAVITY: A MODERN PERSPECTIVE. <i>Modern Physics Letters A</i> , 2002, 17, 977-991.	1.2	174
25	Black-bounce to traversable wormhole. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 042-042.	5.4	169
26	Generic spherically symmetric dynamic thin-shell traversable wormholes in standard general relativity. <i>Physical Review D</i> , 2012, 86, .	4.7	165
27	Faster-than-c Signals, Special Relativity, and Causality. <i>Annals of Physics</i> , 2002, 298, 167-185.	2.8	161
28	Energy Conditions in the Epoch of Galaxy Formation. <i>Science</i> , 1997, 276, 88-90.	12.6	150
29	Scalar fields, energy conditions and traversable wormholes. <i>Classical and Quantum Gravity</i> , 2000, 17, 3843-3864.	4.0	150
30	Fate of gravitational collapse in semiclassical gravity. <i>Physical Review D</i> , 2008, 77, .	4.7	148
31	Dirty black holes: Thermodynamics and horizon structure. <i>Physical Review D</i> , 1992, 46, 2445-2451.	4.7	142
32	Necessary and sufficient conditions for big bangs, bounces, crunches, rips, sudden singularities and extremality events. <i>Classical and Quantum Gravity</i> , 2005, 22, 4913-4930.	4.0	139
33	Traversable wormholes from massless conformally coupled scalar fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 466, 127-134.	4.1	138
34	Probing semiclassical analog gravity in Bose-Einstein condensates with widely tunable interactions. <i>Physical Review A</i> , 2003, 68, .	2.5	130
35	The Hubble series: convergence properties and redshift variables. <i>Classical and Quantum Gravity</i> , 2007, 24, 5985-5997.	4.0	128
36	Rastall gravity is equivalent to Einstein gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 83-86.	4.1	128

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37	General relativistic energy conditions: The Hubble expansion in the epoch of galaxy formation. Physical Review D, 1997, 56, 7578-7587.	4.7	127
38	Phenomenological aspects of black holes beyond general relativity. Physical Review D, 2018, 98, .	4.7	125
39	Dirty black holes: Entropy as a surface term. Physical Review D, 1993, 48, 5697-5705.	4.7	120
40	Minimal conditions for the creation of a Friedman-Robertson-Walker universe from a "bounce". Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 455, 90-95.	4.1	113
41	Production and decay of evolving horizons. Classical and Quantum Gravity, 2006, 23, 4637-4658.	4.0	113
42	Artificial Black Holes. , 2002, , .		113
43	Mass for the Graviton. General Relativity and Gravitation, 1998, 30, 1717-1728.	2.0	112
44	Gravitational vacuum polarization. II. Energy conditions in the Boulware vacuum. Physical Review D, 1996, 54, 5116-5122.	4.7	109
45	On the viability of regular black holes. Journal of High Energy Physics, 2018, 2018, 1.	4.7	104
46	Hawking Radiation without Black Hole Entropy. Physical Review Letters, 1998, 80, 3436-3439.	7.8	101
47	Analogue Models of and for Gravity. General Relativity and Gravitation, 2002, 34, 1719-1734.	2.0	91
48	Understanding the shape of Java software. , 2006, , .		91
49	Quantifying energy condition violations in traversable wormholes. Pramana - Journal of Physics, 2004, 63, 859-864.	1.8	90
50	Analog model of a Friedmann-Robertson-Walker universe in Bose-Einstein condensates: Application of the classical field method. Physical Review A, 2007, 76, .	2.5	87
51	Living on the edge: cosmology on the boundary of anti-de Sitter space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 482, 183-194.	4.1	84
52	Analogue gravity from field theory normal modes?. Classical and Quantum Gravity, 2001, 18, 3595-3610.	4.0	84
53	Cosmographic Hubble fits to the supernova data. Physical Review D, 2008, 78, .	4.7	81
54	Kodama time: Geometrically preferred foliations of spherically symmetric spacetimes. Physical Review D, 2010, 82, .	4.7	80

#	ARTICLE	IF	CITATIONS
55	Novel black-bounce spacetimes: Wormholes, regularity, energy conditions, and causal structure. Physical Review D, 2021, 103, .	4.7	80
56	Acoustic geometry for general relativistic barotropic irrotational fluid flow. New Journal of Physics, 2010, 12, 095014.	2.9	79
57	Dirty black holes: Entropy versus area. Physical Review D, 1993, 48, 583-591.	4.7	78
58	Some general bounds for one-dimensional scattering. Physical Review A, 1999, 59, 427-438.	2.5	78
59	Brane surgery: energy conditions, traversable wormholes, and voids. Nuclear Physics B, 2000, 584, 415-435.	2.5	78
60	Towards the Observation of Hawking Radiation in Bose-Einstein Condensates. International Journal of Modern Physics A, 2003, 18, 3735-3745.	1.5	78
61	Gravitational vacuum polarization. I. Energy conditions in the Hartle-Hawking vacuum. Physical Review D, 1996, 54, 5103-5115.	4.7	77
62	Conservation laws in doubly special relativity. Physical Review D, 2003, 68, .	4.7	77
63	Fundamental limitations on warp drive spacetimes. Classical and Quantum Gravity, 2004, 21, 5871-5892.	4.0	76
64	Unexpectedly large surface gravities for acoustic horizons?. Classical and Quantum Gravity, 2000, 17, 2903-2923.	4.0	74
65	Bounding the greybody factors for Schwarzschild black holes. Physical Review D, 2008, 78, .	4.7	73
66	Geodesically complete black holes. Physical Review D, 2020, 101, .	4.7	73
67	Minimal conditions for the existence of a Hawking-like flux. Physical Review D, 2011, 83, .	4.7	72
68	Regular Black Holes with Asymptotically Minkowski Cores. Universe, 2020, 6, 8.	2.5	72
69	ANALYTIC RESULTS FOR THE EFFECTIVE ACTION. International Journal of Modern Physics A, 1991, 06, 5409-5433.	1.5	71
70	EINSTEIN GRAVITY AS AN EMERGENT PHENOMENON?. International Journal of Modern Physics D, 2001, 10, 799-806.	2.1	71
71	$R=0$ spacetimes and self-dual Lorentzian wormholes. Physical Review D, 2002, 65, .	4.7	70
72	Gravitational vacuum polarization. IV. Energy conditions in the Unruh vacuum. Physical Review D, 1997, 56, 936-952.	4.7	68

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73	Dirty black holes: spacetime geometry and near-horizon symmetries. <i>Classical and Quantum Gravity</i> , 2004, 21, 3111-3125.	4.0	68
74	Vaidya spacetimes, black-bounces, and traversable wormholes. <i>Classical and Quantum Gravity</i> , 2019, 36, 145007.	4.0	68
75	Generating perfect fluid spheres in general relativity. <i>Physical Review D</i> , 2005, 71, .	4.7	67
76	Geometrodynamics of variable-speed-of-light cosmologies. <i>Physical Review D</i> , 2000, 62, .	4.7	66
77	Wave equation for sound in fluids with vorticity. <i>Physica D: Nonlinear Phenomena</i> , 2004, 191, 121-136.	2.8	66
78	Combining rotation curves and gravitational lensing: how to measure the equation of state of dark matter in the galactic halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 372, 136-142.	4.4	66
79	Massive gravity from bimetric gravity. <i>Classical and Quantum Gravity</i> , 2013, 30, 015004.	4.0	66
80	From wormhole to time machine: Remarks on Hawking's chronology protection conjecture. <i>Physical Review D</i> , 1993, 47, 554-565.	4.7	65
81	Scale anomalies imply violation of the averaged null energy condition. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 349, 443-447.	4.1	64
82	Superluminal censorship. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2000, 88, 267-270.	0.4	64
83	Hawking-like radiation from evolving black holes and compact horizonless objects. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	63
84	Area products for stationary black hole horizons. <i>Physical Review D</i> , 2013, 88, .	4.7	63
85	Charged black-bounce spacetimes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 036.	5.4	63
86	Dirty black holes: Symmetries at stationary nonstatic horizons. <i>Physical Review D</i> , 2004, 70, .	4.7	62
87	Spectral Dimension as a Probe of the Ultraviolet Continuum Regime of Causal Dynamical Triangulations. <i>Physical Review Letters</i> , 2011, 107, 131303.	7.8	62
88	Hawking-Like Radiation Does Not Require a Trapped Region. <i>Physical Review Letters</i> , 2006, 97, 171301.	7.8	61
89	Semiclassical energy conditions for quantum vacuum states. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	61
90	Causal structure of analogue spacetimes. <i>New Journal of Physics</i> , 2004, 6, 186-186.	2.9	60

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91	Naturalness in an Emergent Analogue Spacetime. <i>Physical Review Letters</i> , 2006, 96, 151301.	7.8	59
92	Physical observability of horizons. <i>Physical Review D</i> , 2014, 90, .	4.7	59
93	ENERGY CONDITIONS AND THEIR COSMOLOGICAL IMPLICATIONS. , 2000, , .		57
94	Dirty black holes: quasinormal modes. <i>Classical and Quantum Gravity</i> , 2004, 21, 1393-1405.	4.0	57
95	Quantum Blockchain Using Entanglement in Time. <i>Quantum Reports</i> , 2019, 1, 3-11.	1.3	57
96	Projectable Hořava-Lifshitz gravity in a nutshell. <i>Journal of Physics: Conference Series</i> , 2010, 222, 012054.	0.4	55
97	Quasi-normal frequencies: key analytic results. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	55
98	The Kiselev black hole is neither perfect fluid, nor is it quintessence. <i>Classical and Quantum Gravity</i> , 2020, 37, 045001.	4.0	55
99	Dynamic thin-shell black-bounce traversable wormholes. <i>Physical Review D</i> , 2020, 101, .	4.7	55
100	Feeble intermediate-range forces from higher dimensions. <i>Physical Review Letters</i> , 1986, 57, 25-28.	7.8	54
101	ANALOGUE MODELS FOR FRW COSMOLOGIES. <i>International Journal of Modern Physics D</i> , 2003, 12, 1641-1649.	2.1	54
102	Spacetime geometry of static fluid spheres. <i>Classical and Quantum Gravity</i> , 2002, 19, 935-952.	4.0	53
103	Classical and Semi-classical Energy Conditions. <i>Fundamental Theories of Physics</i> , 2017, , 193-213.	0.3	53
104	Riemannian Geometry of Irrotational Vortex Acoustics. <i>Physical Review Letters</i> , 2002, 88, 110201.	7.8	52
105	On-brane data for braneworld stars. <i>Physical Review D</i> , 2003, 67, .	4.7	52
106	Ray tracing Einstein-Æther black holes: Universal versus Killing horizons. <i>Physical Review D</i> , 2014, 89, .	4.7	52
107	Algorithmic construction of static perfect fluid spheres. <i>Physical Review D</i> , 2004, 69, .	4.7	50
108	From dispersion relations to spectral dimension and back again. <i>Physical Review D</i> , 2011, 84, .	4.7	49

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109	Zipf's law, power laws and maximum entropy. <i>New Journal of Physics</i> , 2013, 15, 043021.	2.9	49
110	Wormholes, baby universes, and causality. <i>Physical Review D</i> , 1990, 41, 1116-1124.	4.7	48
111	van Vleck determinants: Geodesic focusing in Lorentzian spacetimes. <i>Physical Review D</i> , 1993, 47, 2395-2402.	4.7	48
112	Quantum wormholes. <i>Physical Review D</i> , 1991, 43, 402-409.	4.7	47
113	Effective action for stochastic partial differential equations. <i>Physical Review E</i> , 1999, 60, 6343-6360.	2.1	47
114	Vortex analogue for the equatorial geometry of the Kerr black hole. <i>Classical and Quantum Gravity</i> , 2005, 22, 2493-2510.	4.0	47
115	Opening the Pandora's box at the core of black holes. <i>Classical and Quantum Gravity</i> , 2020, 37, 145005.	4.0	47
116	Surface gravities for non-Killing horizons. <i>Classical and Quantum Gravity</i> , 2013, 30, 125001.	4.0	46
117	Null Energy Condition violations in bimetric gravity. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	44
118	Comment on "Relativistic Effects of Light in Moving Media with Extremely Low Group Velocity". <i>Physical Review Letters</i> , 2000, 85, 5252-5252.	7.8	43
119	Dirty black holes: quasinormal modes for "squeezed" horizons. <i>Classical and Quantum Gravity</i> , 2004, 21, 2393-2405.	4.0	43
120	Inner horizon instability and the unstable cores of regular black holes. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	43
121	Generic thin-shell gravastars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 034-034.	5.4	42
122	Classical and quantum flux energy conditions for quantum vacuum states. <i>Physical Review D</i> , 2013, 88, .	4.7	42
123	Analogue quantum gravity phenomenology from a two-component Bose-Einstein condensate. <i>Classical and Quantum Gravity</i> , 2006, 23, 3129-3154.	4.0	41
124	Quantum mechanical stabilization of Minkowski signature wormholes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 242, 24-28.	4.1	40
125	The Hawking cascade from a black hole is extremely sparse. <i>Classical and Quantum Gravity</i> , 2016, 33, 115003.	4.0	40
126	Exponential metric represents a traversable wormhole. <i>Physical Review D</i> , 2018, 98, .	4.7	40



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127	Refringence, field theory and normal modes. <i>Classical and Quantum Gravity</i> , 2002, 19, 2961-2982.	4.0	39
128	Understanding the shape of Java software. <i>ACM SIGPLAN Notices</i> , 2006, 41, 397-412.	0.2	39
129	Quasi-particle creation by analogue black holes. <i>Classical and Quantum Gravity</i> , 2006, 23, 5341-5366.	4.0	39
130	Cosmological particle production in emergent rainbow spacetimes. <i>Classical and Quantum Gravity</i> , 2009, 26, 065012.	4.0	39
131	Unruh-DeWitt detector event rate for trajectories with time-dependent acceleration. <i>Physical Review D</i> , 2012, 86, .	4.7	39
132	Quantum vacuum radiation in optical glass. <i>Physical Review D</i> , 2012, 85, .	4.7	37
133	Gravitational vacuum polarization. III. Energy conditions in the (1+1)-dimensional Schwarzschild spacetime. <i>Physical Review D</i> , 1996, 54, 5123-5128.	4.7	36
134	Massive Klein-Gordon equation from a Bose-Einstein-condensation-based analogue spacetime. <i>Physical Review D</i> , 2005, 72, .	4.7	36
135	Bounding the Bogoliubov coefficients. <i>Annals of Physics</i> , 2008, 323, 2779-2798.	2.8	36
136	Tolman wormholes violate the strong energy condition. <i>Physical Review D</i> , 1999, 59, .	4.7	35
137	Interpreting doubly special relativity as a modified theory of measurement. <i>Physical Review D</i> , 2005, 71, .	4.7	35
138	Solution generating theorems for the Tolman-Oppenheimer-Volkov equation. <i>Physical Review D</i> , 2007, 76, .	4.7	34
139	Lower-dimensional Hořava-Lifshitz gravity. <i>Physical Review D</i> , 2011, 83, .	4.7	34
140	Elementary analysis of the special relativistic combination of velocities, Wigner rotation and Thomas precession. <i>European Journal of Physics</i> , 2011, 32, 1033-1047.	0.6	34
141	DETERMINANTS, DIRAC OPERATORS, AND ONE-LOOP PHYSICS. <i>International Journal of Modern Physics A</i> , 1989, 04, 1467-1484.	1.5	33
142	Black Stars, Not Holes. <i>Scientific American</i> , 2009, 301, 38-45.	1.0	33
143	Tolman Mass, Generalized Surface Gravity, and Entropy Bounds. <i>Physical Review Letters</i> , 2010, 105, 041302.	7.8	33
144	Status of Hořava gravity: A personal perspective. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012002.	0.4	33

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145	Regge-Wheeler equation, linear stability, and greybody factors for dirty black holes. <i>Physical Review D</i> , 2013, 88, .	4.7	33
146	Special-case closed form of the Baker–Campbell–Hausdorff formula. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 225207.	2.1	33
147	Photon Spheres, ISCOs, and OSCOs: Astrophysical Observables for Regular Black Holes with Asymptotically Minkowski Cores. <i>Universe</i> , 2021, 7, 2.	2.5	33
148	Conservative entropic forces. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	32
149	Greybody factors for Myers–Perry black holes. <i>Journal of Mathematical Physics</i> , 2014, 55, .	1.1	32
150	Moduli fields and brane tensions: Generalizing the junction conditions. <i>Physical Review D</i> , 2000, 63, .	4.7	31
151	Gordon and Kerr-Schild ansätze in massive and bimetric gravity. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	31
152	Quantization of area for event and Cauchy horizons of the Kerr-Newman black hole. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	31
153	Nonperturbative summation over 3D discrete topologies. <i>Physical Review D</i> , 2003, 68, .	4.7	30
154	The eye of the storm: a regular Kerr black hole. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 011.	5.4	29
155	On the space-time curvature experienced by quasiparticle excitations in the Painlevé–Gullstrand effective geometry. <i>Annals of Physics</i> , 2003, 304, 22-39.	2.8	28
156	Sonoluminescence as a QED vacuum effect. I. The physical scenario. <i>Physical Review D</i> , 2000, 61, .	4.7	27
157	Trans-Planckian physics and signature change events in Bose gas hydrodynamics. <i>Physical Review D</i> , 2007, 76, .	4.7	27
158	Bi-metric pseudo-Finslerian spacetimes. <i>Journal of Geometry and Physics</i> , 2011, 61, 1396-1400.	1.4	27
159	Traversable wormholes: The Roman ring. <i>Physical Review D</i> , 1997, 55, 5212-5214.	4.7	26
160	BUCHDAHL-LIKE TRANSFORMATIONS FOR PERFECT FLUID SPHERES. <i>International Journal of Modern Physics D</i> , 2008, 17, 135-163.	2.1	26
161	Signature change events: a challenge for quantum gravity?. <i>Classical and Quantum Gravity</i> , 2010, 27, 045007.	4.0	26
162	Conformally Friedmann–Lemaître–Robertson–Walker cosmologies. <i>Classical and Quantum Gravity</i> , 2015, 32, 135007.	4.0	26

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163	Thin-shell traversable wormhole crafted from a regular black hole with asymptotically Minkowski core. <i>Physical Review D</i> , 2020, 102, .	4.7	26
164	Casimir effect in dielectrics: Bulk energy contribution. <i>Physical Review D</i> , 1997, 56, 1262-1280.	4.7	24
165	Schwinger's dynamical Casimir effect: bulk energy contribution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 395, 76-82.	4.1	24
166	PSEUDO-FINSLERIAN SPACEâ€“TIMES AND MULTIREFRINGENCE. <i>International Journal of Modern Physics D</i> , 2010, 19, 1119-1146.	2.1	24
167	Entropy bounds in terms of the $w$ parameter. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	24
168	Bounding the greybody factors for scalar field excitations on the Kerr-Newman spacetime. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	24
169	Innermost and outermost stable circular orbits in the presence of a positive cosmological constant. <i>Physical Review D</i> , 2020, 101, .	4.7	24
170	Braneworld gravity: influence of the moduli fields. <i>Journal of High Energy Physics</i> , 2000, 2000, 019-019.	4.7	23
171	Some generalizations of the Raychaudhuri equation. <i>Physical Review D</i> , 2011, 83, .	4.7	23
172	Thermality of the Hawking flux. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	23
173	Bounds on the interior geometry and pressure profile of static fluid spheres. <i>Classical and Quantum Gravity</i> , 2003, 20, 3699-3716.	4.0	22
174	HEURISTIC APPROACH TO THE SCHWARZSCHILD GEOMETRY. <i>International Journal of Modern Physics D</i> , 2005, 14, 2051-2067.	2.1	22
175	Cosmodynamics: energy conditions, Hubble bounds, density bounds, time and distance bounds. <i>Classical and Quantum Gravity</i> , 2008, 25, 165013.	4.0	22
176	Birefringence in pseudoâ€“Finsler spacetimes. <i>Journal of Physics: Conference Series</i> , 2009, 189, 012037.	0.4	21
177	Tolman temperature gradients in a gravitational field. <i>European Journal of Physics</i> , 2019, 40, 025604.	0.6	21
178	Sonoluminescence: Bogolubov Coefficients for the QED Vacuum of a Time-Dependent Dielectric Bubble. <i>Physical Review Letters</i> , 1999, 83, 678-681.	7.8	20
179	Scharnhorst effect at oblique incidence. <i>Physical Review D</i> , 2001, 63, .	4.7	20
180	Power Laws, Scale Invariance and the Generalized Frobenius Series: Applications to Newtonian and TOV Stars Near Criticality. <i>International Journal of Modern Physics A</i> , 2003, 18, 3433-3468.	1.5	20

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181	Transmission probabilities and the Millerâ€™Good transformation. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 045301.	2.1	20
182	Analytic bounds on transmission probabilities. Annals of Physics, 2010, 325, 1328-1339.	2.8	20
183	Infinite Shannon entropy. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P04010.	2.3	20
184	Lorentz Invariance and the Zero-Point Stress-Energy Tensor. Particles, 2018, 1, 10.	1.7	20
185	PainlevÃ©â€™Gullstrand form of the Lenseâ€™Thirring Spacetime. Universe, 2021, 7, 105.	2.5	20
186	Small, dark, and heavy: But is it a black hole?. , 2009, , .		20
187	Generic warp drives violate the null energy condition. Physical Review D, 2022, 105, .	4.7	20
188	Casimir effect in dielectrics: Surface area contribution. Physical Review D, 1997, 56, 6629-6639.	4.7	19
189	Analogue model for quantum gravity phenomenology. Journal of Physics A, 2006, 39, 6807-6813.	1.6	19
190	Mimicking static anisotropic fluid spheres in general relativity. International Journal of Modern Physics D, 2016, 25, 1650019.	2.1	19
191	Killing Tensor and Carter Constant for PainlevÃ©â€™Gullstrand Form of Lenseâ€™Thirring Spacetime. Universe, 2021, 7, 473.	2.5	19
192	Greybody Factors for Schwarzschild Black Holes: Path-Ordered Exponentials and Product Integrals. Universe, 2018, 4, 93.	2.5	18
193	Sonoluminescence as a QED vacuum effect: probing Schwinger's proposal. Journal of Physics A, 2000, 33, 2251-2272.	1.6	17
194	Analogue Space-time Based on 2-Component Bose-Einstein Condensates. , 2007, , 115-163.		17
195	Primes and the Lambert W function. Mathematics, 2018, 6, 56.	2.2	17
196	Survey of Analogue Spacetimes. Lecture Notes in Physics, 2013, , 31-50.	0.7	17
197	Number of massless fermion families in superstring theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 163, 118-122.	4.1	16
198	Sonoluminescence as a QED vacuum effect. II. Finite volume effects. Physical Review D, 2000, 61, .	4.7	16

#	ARTICLE	IF	CITATIONS
199	Cosmological milestones and energy conditions. <i>Journal of Physics: Conference Series</i> , 2007, 68, 012011.	0.4	16
200	Effective metrics and a fully covariant description of constitutive tensors in electrodynamics. <i>Physical Review D</i> , 2017, 96, .	4.7	16
201	Tolman-like temperature gradients in stationary spacetimes. <i>Physical Review D</i> , 2018, 98, .	4.7	16
202	Cosmographic analysis of redshift drift. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 043-043.	5.4	16
203	Unit-lapse versions of the Kerr spacetime. <i>Classical and Quantum Gravity</i> , 2021, 38, 055001.	4.0	16
204	The reliability horizon for semi-classical quantum gravity: metric fluctuations are often more important than back-reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 415, 8-14.	4.1	15
205	Generalized Rainich conditions, generalized stress-energy conditions, and the Hawking-Ellis classification. <i>Classical and Quantum Gravity</i> , 2017, 34, 225014.	4.0	15
206	Explicit Baker-Campbell-Hausdorff Expansions. <i>Mathematics</i> , 2018, 6, 135.	2.2	15
207	Sonoluminescence: two-photon correlations as a test of thermality. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 271, 308-313.	2.1	14
208	Effective refractive index tensor for weak-field gravity. <i>Classical and Quantum Gravity</i> , 2005, 22, 1905-1915.	4.0	14
209	Reformulating the Schrödinger equation as a Shabat-Zakharov system. <i>Journal of Mathematical Physics</i> , 2010, 51, 022105.	1.1	14
210	Fixed-topology Lorentzian triangulations: Quantum Regge Calculus in the Lorentzian domain. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	14
211	Decomposition of the total stress energy for the generalized Kiselev black hole. <i>Physical Review D</i> , 2020, 101, .	4.7	14
212	Astrophysically viable Kerr-like spacetime. <i>Physical Review D</i> , 2022, 105, .	4.7	14
213	Hawking's chronology protection conjecture: singularity structure of the quantum stress-energy tensor. <i>Nuclear Physics B</i> , 1994, 416, 895-906.	2.5	13
214	Inertial frames without the relativity principle. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	13
215	Lorentz violating kinematics: threshold theorems. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	13
216	Cartesian Kerr-Schild variation on the Newman-Janis trick. <i>International Journal of Modern Physics D</i> , 2017, 26, 1750167.	2.1	13

#	ARTICLE	IF	CITATIONS
217	Essential core of the Hawking- Ellis types. Classical and Quantum Gravity, 2018, 35, 125003.	4.0	13
218	Hawking-Ellis classification of stress-energy tensors: Test fields versus backreaction. Physical Review D, 2021, 103, .	4.7	13
219	Determinants of conformal wave operators in four dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 209, 209-213.	4.1	12
220	Effective potential for the massless KPZ equation. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 437-455.	2.6	12
221	Warped space-time for phonons moving in a perfect nonrelativistic fluid. Europhysics Letters, 2003, 62, 1-7.	2.0	12
222	Modelling Planck-scale Lorentz violation via analogue models. Journal of Physics: Conference Series, 2006, 33, 373-385.	0.4	12
223	Semi-analytic results for quasi-normal frequencies. Journal of High Energy Physics, 2010, 2010, 1.	4.7	12
224	Realizability of the Lorentzian $(n, 1)$ -simplex. Journal of High Energy Physics, 2012, 2012, 1.	4.7	12
225	Entropy/information flux in Hawking radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 10-16.	4.1	12
226	Regularity of a General Class of "Quantum Deformed" Black Holes. Universe, 2021, 7, 165.	2.5	12
227	Geodesically complete black holes in Lorentz-violating gravity. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
228	WHEELER WORMHOLES AND TOPOLOGY CHANGE: A MINISUPERSPACE ANALYSIS. Modern Physics Letters A, 1991, 06, 2663-2667.	1.2	11
229	Perturbative superluminal censorship and the null energy condition. , 1999, , .		11
230	A classical model for the electron. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 139, 99-102.	2.1	10
231	Effective Potential for the Reaction-Diffusion-Decay System. Journal of Statistical Physics, 2000, 99, 903-941.	1.2	10
232	Is there vacuum when there is mass? Vacuum and non-vacuum solutions for massive gravity. Classical and Quantum Gravity, 2013, 30, 155021.	4.0	10
233	Global properties of physically interesting Lorentzian spacetimes. International Journal of Modern Physics D, 2016, 25, 1650106.	2.1	10
234	On burning a lump of coal. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 383-386.	4.1	10

#	ARTICLE	IF	CITATIONS
235	Coarse Graining Shannon and von Neumann Entropies. Entropy, 2017, 19, 207.	2.2	10
236	Vorticity in analogue spacetimes. Physical Review D, 2019, 99, .	4.7	10
237	Darboux diagonalization of the spatial 3-metric in Kerr spacetime. General Relativity and Gravitation, 2021, 53, 1.	2.0	10
238	Black holes in general relativity. , 2009, , .		10
239	Counterexamples to the Maximum Force Conjecture. Universe, 2021, 7, 403.	2.5	10
240	On the Inner Horizon Instability of Non-Singular Black Holes. Universe, 2022, 8, 204.	2.5	10
241	van Vleck determinants: Traversable wormhole spacetimes. Physical Review D, 1994, 49, 3963-3980.	4.7	9
242	Physical wavelets: Lorentz covariant, singularity-free, finite energy, zero action, localized solutions to the wave equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 315, 219-224.	2.1	9
243	Solution generating theorems for perfect fluid spheres. Journal of Physics: Conference Series, 2007, 68, 012055.	0.4	9
244	Quantum interest in ( $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (c}$ ) Minkowski space. Physical Review D, 2009, 79, .	4.7	9
245	Entropy bounds for uncollapsed rotating bodies. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
246	Simplifying the Reinsch algorithm for the Bakerâ€“Campbellâ€“Hausdorff series. Journal of Mathematical Physics, 2016, 57, 023507.	1.1	9
247	â€œTwistedâ€“black holes are unphysical. Modern Physics Letters A, 2017, 32, 1771001.	1.2	9
248	Gravityâ€™s universality: The physics underlying Tolman temperature gradients. International Journal of Modern Physics D, 2018, 27, 1846001.	2.1	9
249	Towards a Gordon form of the Kerr spacetime. Classical and Quantum Gravity, 2018, 35, 155004.	4.0	9
250	The type III stress-energy tensor: ugly duckling of the Hawkingâ€“Ellis classification. Classical and Quantum Gravity, 2020, 37, 015013.	4.0	9
251	Geodesics for the PainlevÃ©â€“Gullstrand Form of Lenseâ€“Thirring Spacetime. Universe, 2022, 8, 115.	2.5	9
252	HAWKING RADIATION: A PARTICLE PHYSICS PERSPECTIVE. Modern Physics Letters A, 1993, 08, 1661-1670.	1.2	8

#	ARTICLE	IF	CITATIONS
253	Lateral wave contribution to the low-altitude radar propagation factor. <i>Radio Science</i> , 1994, 29, 483-494.	1.6	8
254	RENORMALIZATION GROUP IMPROVING THE EFFECTIVE ACTION: A REVIEW. <i>International Journal of Modern Physics A</i> , 1999, 14, 1485-1521.	1.5	8
255	Revisiting the semiclassical gravity scenario for gravitational collapse. , 2009, , .		8
256	Clausius entropy for arbitrary bifurcate null surfaces. <i>Classical and Quantum Gravity</i> , 2014, 31, 035009.	4.0	8
257	Feeble forces and gravity. <i>General Relativity and Gravitation</i> , 1987, 19, 219-223.	2.0	7
258	Small-scale properties of the KPZ equation and dynamical symmetry breaking. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 278, 177-183.	2.1	7
259	Generic master equations for quasi-normal frequencies. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	7
260	General polarization modes for the Rosen gravitational wave. <i>Classical and Quantum Gravity</i> , 2010, 27, 165022.	4.0	7
261	Causal hierarchy in modified gravity. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	7
262	Semi-classical and nonlinear energy conditions. , 2017, , .		7
263	Is the 'missing mass' really missing?. <i>General Relativity and Gravitation</i> , 1988, 20, 77-81.	2.0	6
264	Zeta Functions, Renormalization Group Equations, and the Effective Action. <i>Physical Review Letters</i> , 1998, 81, 4802-4805.	7.8	6
265	Comment on "Detecting Vanishing Dimensions via Primordial Gravitational Wave Astronomy" <i>Physical Review Letters</i> , 2011, 107, 169001; author reply 169002.	7.8	6
266	Polarization modes for strong-field gravitational waves. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012073.	0.4	6
267	Compound transfer matrices: Constructive and destructive interference. <i>Journal of Mathematical Physics</i> , 2012, 53, .	1.1	6
268	Multipartite analysis of average-subsystem entropies. <i>Physical Review A</i> , 2017, 96, .	2.5	6
269	Bespoke analogue space-times: meta-material mimics. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	6
270	Tractor Beams, Pressor Beams and Stressor Beams in General Relativity. <i>Universe</i> , 2021, 7, 271.	2.5	6



#	ARTICLE	IF	CITATIONS
271	Highly damped quasinormal frequencies for piecewise Eckart potentials. <i>Physical Review D</i> , 2010, 81, .	4.7	5
272	Entropy bounds for uncollapsed matter. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012035.	0.4	5
273	The causal structure of spacetime is a parameterized Randers geometry. <i>Classical and Quantum Gravity</i> , 2011, 28, 065007.	4.0	5
274	Variants on Andrica's Conjecture with and without the Riemann Hypothesis. <i>Mathematics</i> , 2018, 6, 289.	2.2	5
275	Hawking's Ellis type III spacetime geometry. <i>Classical and Quantum Gravity</i> , 2018, 35, 185004.	4.0	5
276	Reconsidering maximum luminosity. <i>International Journal of Modern Physics D</i> , 2021, 30, .	2.1	5
277	Superradiance and flux conservation. <i>Physical Review D</i> , 2014, 90, .	4.7	4
278	Regularization versus Renormalization: Why Are Casimir Energy Differences So Often Finite?. <i>Particles</i> , 2019, 2, 14-31.	1.7	4
279	Relativistic Combination of Non-Collinear 3-Velocities Using Quaternions. <i>Universe</i> , 2020, 6, 237.	2.5	4
280	Quantum PBR Theorem as a Monty Hall Game. <i>Quantum Reports</i> , 2020, 2, 39-48.	1.3	4
281	ACOUSTICS IN BOSE-EINSTEIN CONDENSATES AS AN EXAMPLE OF BROKEN LORENTZ SYMMETRY. , 2002, , .		4
282	Explicit form of the Mann-Marolf surface term in (3+1) dimensions. <i>Physical Review D</i> , 2009, 79, .	4.7	3
283	Signature-change events in emergent spacetimes with anisotropic scaling. <i>Journal of Physics: Conference Series</i> , 2009, 189, 012046.	0.4	3
284	Bounds on variable-length compound jumps. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	3
285	Non-perturbative results for the luminosity and area distances. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 040-040.	5.4	3
286	The Pauli sum rules imply BSM physics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 791, 43-47.	4.1	3
287	Analogue spacetimes: toy models for "quantum gravity". , 2008, , .		3
288	Concerning the mass of the photon. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982, 109, 373-374.	4.1	2

#	ARTICLE	IF	CITATIONS
289	Canonically quantized gravity: Disentangling the super-Hamiltonian and supermomentum constraints. <i>Physical Review D</i> , 1990, 42, 1964-1972.	4.7	2
290	Bounding the Hubble flow in terms of the $w$ parameter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 024.	5.4	2
291	COSMOGRAPHIC ANALYSIS OF DARK ENERGY. , 2009, , .		2
292	Quasi-normal frequencies: Semi-analytic results for highly damped modes. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012074.	0.4	2
293	Any spacetime has a Bianchi type I spacetime as a limit. <i>Classical and Quantum Gravity</i> , 2011, 28, 055007.	4.0	2
294	Entropy Budget for Hawking Evaporation. <i>Universe</i> , 2017, 3, 58.	2.5	2
295	Near-Horizon Geodesics for Astrophysical and Idealised Black Holes: Coordinate Velocity and Coordinate Acceleration. <i>Universe</i> , 2018, 4, 68.	2.5	2
296	Evading the trans-Planckian problem with Vaidya spacetimes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 067-067.	5.4	2
297	Explicit Baker-Campbell-Hausdorff-Dynkin formula for spacetime via geometric algebra. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021, 18, .	2.0	2
298	Charge-nonconserving decays in ordinary matter. <i>Physical Review D</i> , 1981, 24, 2542-2544.	4.7	1
299	A supergravity model without elementary gauge singlets. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 160, 77-80.	4.1	1
300	Some generalisations of the O'Raifeartaigh model. <i>Journal of Physics A</i> , 1985, 18, L979-L982.	1.6	1
301	Heat kernel regularization of the effective action for stochastic reaction-diffusion equations. <i>Physical Review E</i> , 2001, 63, 036132.	2.1	1
302	SOLUTION GENERATING THEOREMS: PERFECT FLUID SPHERES AND THE TOV EQUATION. , 2008, , .		1
303	Progress at a price. <i>Nature Physics</i> , 2009, 5, 385-386.	16.7	1
304	Modelling gravity on a hyper-cubic lattice. <i>Physical Review D</i> , 2012, 86, .	4.7	1
305	INERTIAL FRAMES WITHOUT THE RELATIVITY PRINCIPLE: BREAKING LORENTZ SYMMETRY. , 2015, , .		1
306	Spin zero Hawking radiation for non-zero-angular momentum mode. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1

#	ARTICLE	IF	CITATIONS
307	Reply to comment regarding "special-case closed form of the Baker-Campbell-Hausdorff formula". Journal of Physics A: Mathematical and Theoretical, 2016, 49, 218002.	2.1	1
308	The rigorous bound on the transmission probability for massless scalar field of non-negative-angular-momentum mode emitted from a Myers-Perry black hole. AIP Conference Proceedings, 2016, , .	0.4	1
309	Quantum mechanix plus Newtonian gravity violates the universality of free fall. International Journal of Modern Physics D, 2017, 26, 1743027.	2.1	1
310	Perturbative treatment of the luminosity distance. Physical Review D, 2018, 98, .	4.7	1
311	Verifying the Firoozbakht, Nicholson, and Farhadian Conjectures up to the 81st Maximal Prime Gap. Mathematics, 2019, 7, 691.	2.2	1
312	Electromagnetic analogue space-times, analytically and algebraically. Classical and Quantum Gravity, 2019, 36, 134004.	4.0	1
313	Lorentz Boosts and Wigner Rotations: Self-Adjoint Complexified Quaternions. Physics, 2021, 3, 352-366.	1.4	1
314	Cosmography: Cosmology without the Einstein equations. , 2005, 37, 1541.		1
315	Sparsity of the Hawking flux. , 2017, , .		1
316	THE QUANTUM INTEREST CONJECTURE IN (3+1)-DIMENSIONAL MINKOWSKI SPACE. , 2012, , .		1
317	MASSIVE GRAVITY AS A LIMIT OF BIMETRIC GRAVITY. , 2015, , .		1
318	Novel stability approach of thin-shell gravastars. , 2017, , .		1
319	Tuning the cosmological constant in N = 1 supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 165, 289-291.	4.1	0
320	Topological degree for supersymmetric chiral models. Physical Review D, 1985, 32, 510-512.	4.7	0
321	Tree-level mass spectra in the observable sector. Nuclear Physics B, 1986, 271, 53-60.	2.5	0
322	GENERAL RELATIVITY:Enhanced: A New Twist. , 1998, 282, 249-249.		0
323	Reply to "Comment on "Elementary analysis of the special relativistic combination of velocities, Wigner rotation and Thomas precession". European Journal of Physics, 2013, 34, L63-L64.	0.6	0
324	A novel approach to thin-shell wormholes and applications. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
325	The Utterly Prosaic Connection between Physics and Mathematics. <i>Philosophies</i> , 2018, 3, 25.	0.7	0
326	Signature-Change Events, Trans-Planckian Physics and Quasi-Particle Amplification in Bose-Einstein Condensates. , 2007, , .		0
327	GENERALIZED PUISEUX SERIES EXPANSION FOR COSMOLOGICAL MILESTONES. , 2008, , .		0
328	Buchert coarse-graining and the classical energy conditions. , 2017, , .		0