Philip D Mannheim

List of Publications by Year
in descending order

95 papers	3,370 citations	185998 28 h-index	149479 56 g-index
96 all docs	96 docs citations	96 times ranked	1249 citing authors

#	Article	IF	Citations
1	Critique of the use of geodesics in astrophysics and cosmology. Classical and Quantum Gravity, 2022, 39, 245001.	1.5	3
2	Comparing light-front quantization with instant-time quantization. Physics Reports, 2021, 891, 1-65.	10.3	14
3	Exact solution to perturbative conformal cosmology from recombination until the current era. Physical Review D, 2021, 103, .	1.6	2
4	Cosmological fluctuations on the light cone. Physical Review D, 2021, 103, .	1.6	1
5	External field effect in gravity. International Journal of Modern Physics D, 2021, 30, .	0.9	5
6	Antilinear symmetry and the ghost problem in quantum field theory. Journal of Physics: Conference Series, 2021, 2038, 012018.	0.3	1
7	Three-dimensional and four-dimensional scalar, vector, tensor cosmological fluctuations and the cosmological decomposition theorem. General Relativity and Gravitation, 2020, 52, 1.	0.7	5
8	Ghost problems from Pauliâ€“Villars to fourth-order quantum gravity and their resolution. International Journal of Modern Physics D, 2020, 29, 2043009.	0.9	6
9	Equivalence of light-front quantization and instant-time quantization. Physical Review D, 2020, 102, .	1.6	3
10	Exact solution to perturbative conformal cosmology in the recombination era. Physical Review D, 2020, 102, .	1.6	6
11	Light-front quantization is the same as instant-time quantization. , 2020, , .		1
12	Structure of light-front vacuum sector diagrams. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134916.	1.5	10
13	Radial Acceleration and Tully-Fisher Relations in Conformal Gravity. Journal of Physics: Conference Series, 2019, 1239, 012009.	0.3	4
14	Critical Scaling and a Dynamical Higgs Boson. Journal of Physics: Conference Series, 2019, 1239, 012017.	0.3	0
15	Cosmological perturbations in conformal gravity. II.. Physical Review D, 2019, 99, .	1.6	8
16	Goldstone bosons and the Englert-Brout-Higgs mechanism in non-Hermitian theories. Physical Review D, 2019, 99, .	1.6	33
17	Is dark matter fact or fantasy? â€” Clues from the data. International Journal of Modern Physics D, 2019, 28, 1944022.	0.9	3
18	Appropriate inner product for PT -symmetric Hamiltonians. Physical Review D, 2018, 97, .	1.6	17

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19	Unitarity of loop diagrams for the ghostlike 1/(k2â^'M12)â^'1/(k2â^'M22) propagator. Physical Review D, 2018, 98, .	1.6	18
20	Universal properties of galactic rotation curves and a first principles derivation of the Tullyâ€“Fisher relation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 433-439.	1.5	20
21	Antilinearity rather than Hermiticity as a guiding principle for quantum theory. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 315302.	0.7	31
22	PT Symmetry, Conformal Symmetry, and the Metrication of Electromagnetism. Foundations of Physics, 2017, 47, 1229-1257.	0.6	4
23	Mass generation, the cosmological constant problem, conformal symmetry, and the Higgs boson. Progress in Particle and Nuclear Physics, 2017, 94, 125-183.	5.6	46
24	Living without supersymmetryâ€"the conformal alternative and a dynamical Higgs boson. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 115003.	1.4	4
25	Is the cosmological constant problem properly posed?. International Journal of Modern Physics D, 2017, 26, 1743009.	0.9	4
26	Anomalous dimensions and the renormalizability of the four-fermion interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 604-609.	1.5	3
27	Conformal invariance and the metrication of the fundamental forces. International Journal of Modern Physics D, 2016, 25, 1644003.	0.9	10
28	Comment on â€œProblems with Mannheimâ€™s conformal gravity programâ€• Physical Review D, 2016, 93, .	1.6	10
29	Extension of the CPT theorem to non-Hermitian Hamiltonians and unstable states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 288-292.	1.5	18
30	Torsion, magnetic monopoles and Faraday's law via a variational principle. Journal of Physics: Conference Series, 2015, 615, 012004.	0.3	2
31	Continuity of the torsionless limit as a selection rule for gravity theories with torsion. Physical Review D, 2014, 90, .	1.6	8
32	Gravitational analog of Faradayâ€™s law via torsion and a metric with an antisymmetric part. General Relativity and Gravitation, 2014, 46, 1.	0.7	5
33	Galactic rotation curves in conformal gravity. Journal of Physics: Conference Series, 2013, 437, 012002.	0.3	31
34	PT symmetry as a necessary and sufficient condition for unitary time evolution. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120060.	1.6	38
35	Cosmological perturbations in conformal gravity. Physical Review D, 2012, 85, .	1.6	34
36	Fitting galactic rotation curves with conformal gravity and a global quadratic potential. Physical Review D, 2012, 85, .	1.6	109

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37	Fitting dwarf galaxy rotation curves with conformal gravity. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1273-1282.	1.6	73
38	Making the Case for Conformal Gravity. Foundations of Physics, 2012, 42, 388-420.	0.6	229
39	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold-script">P</mml:mi><mml:mi mathvariant="bold-script">T</mml:mi></mml:math>symmetry in relativistic quantum mechanics. Physical Review D, 2011, 84, .	1.6	12
40	Impact of a Global Quadratic Potential on Galactic Rotation Curves. Physical Review Letters, 2011, 106, 121101.	2.9	139
41	Comprehensive solution to the cosmological constant, zero-point energy, and quantum gravity problems. General Relativity and Gravitation, 2011, 43, 703-750.	0.7	62
42	INTRINSICALLY QUANTUM-MECHANICAL GRAVITY AND THE COSMOLOGICAL CONSTANT PROBLEM. Modern Physics Letters A, 2011, 26, 2375-2389.	0.5	15
43	Limitations of the standard gravitational perfect fluid paradigm. General Relativity and Gravitation, 2010, 42, 2561-2584.	0.7	4
44	symmetry and necessary and sufficient conditions for the reality of energy eigenvalues. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1616-1620.	0.9	78
45	From Galileo to Modern Cosmology: Alternative Paradigms and Science Boundary Conditions. , 2009, , 301-428.		1
46	No-Ghost Theorem for the Fourth-Order Derivative Pais-Uhlenbeck Oscillator Model. Physical Review Letters, 2008, 100, 110402.	2.9	268
47	Exactly solvable<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math>-symmetric Hamiltonian having no Hermitian counterpart. Physical Review D, 2008, 78, .	1.6	141
48	Giving up the ghost. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 304018.	0.7	34
49	Schwarzschild limit of conformal gravity in the presence of macroscopic scalar fields. Physical Review D, 2007, 75, .	1.6	43
50	Solution to the Ghost Problem in Fourth Order Derivative Theories. Foundations of Physics, 2007, 37, 532-571.	0.6	92
51	Arbitrary force-constant changes in the crystal impurity problem. Physical Review B, 2006, 73, .	1.1	1
52	Gauge invariant treatment of the energy carried by a gravitational wave. Physical Review D, 2006, 74, .	1.6	5
53	Completeness of non-normalizable modes. Journal of Physics A, 2006, 39, 13783-13806.	1.6	5
54	Bounds on localized modes in the crystal impurity problem. Physical Review B, 2006, 73, .	1.1	2

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55	THE WORK OF BEHRAM KURSUNOGLU. , 2005, , .		0
56	Dirac quantization of the Pais-Uhlenbeck fourth order oscillator. Physical Review A, 2005, 71, .	1.0	82
57	DARK MATTER AND DARK ENERGY - FACT OR FANTASY?. International Journal of Modern Physics A, 2004, 19, 5333-5333.	0.5	0
58	Measuring velocity of sound with nuclear resonant inelastic x-ray scattering. Physical Review B, 2003, 67, .	1.1	102
59	HOW RECENT IS COSMIC ACCELERATION?. International Journal of Modern Physics D, 2003, 12, 893-904.	0.9	22
60	Localization Issues for Robertson-Walker Branes. AIP Conference Proceedings, 2002, , .	0.3	0
61	Cosmic Acceleration as the Solution to the Cosmological Constant Problem. Astrophysical Journal, 2001, 561, 1-12.	1.6	36
62	Attractive and Repulsive Gravity. Foundations of Physics, 2000, 30, 709-746.	0.6	48
63	Classical underpinnings of gravitationally induced quantum interference. Physical Review A, 1998, 57, 1260-1264.	1.0	17
64	Implications of cosmic repulsion for gravitational theory. Physical Review D, 1998, 58, .	1.6	16
65	Are Galactic Rotation Curves Really Flat?. Astrophysical Journal, 1997, 479, 659-664.	1.6	134
66	Local and global gravity. Foundations of Physics, 1996, 26, 1683-1709.	0.6	18
67	Microlensing, Newton-Einstein gravity, and conformal gravity. AIP Conference Proceedings, 1995, , .	0.3	0
68	Open questions in classical gravity. Foundations of Physics, 1994, 24, 487-511.	0.6	22
69	Newtonian limit of conformal gravity and the lack of necessity of the second order Poisson equation. General Relativity and Gravitation, 1994, 26, 337-361.	0.7	100
70	Conformal gravity and the flatness problem. Astrophysical Journal, 1992, 391, 429.	1.6	53
71	Some Exact Solutions to Conformal Weyl Gravity. Annals of the New York Academy of Sciences, 1991, 631, 194-211.	1.8	12
72	Dark matter or new physics?. AIP Conference Proceedings, 1991, , .	0.3	1

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73	Conformal cosmology with no cosmological constant. General Relativity and Gravitation, 1990, 22, 289-298.	0.7	108
74	Exact vacuum solution to conformal Weyl gravity and galactic rotation curves. Astrophysical Journal, 1989, 342, 635.	1.6	485
75	Perfect maxwell fluids in the standard cosmology. General Relativity and Gravitation, 1988, 20, 969-987.	0.7	7
76	Energy-momentum tensor of fields in the standard cosmology. General Relativity and Gravitation, 1988, 20, 201-220.	0.7	13
77	Black-body radiation in a curved Robertson-Walker background. Astrophysics and Space Science, 1987, 135, 261-269.	0.5	2
78	Klein-Gordon propagator via first quantization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 166, 191-195.	1.5	17
79	Classical spin and its quantization. Physical Review D, 1985, 32, 898-913.	1.6	11
80	Quantization of classical Grassman spin. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 385-388.	1.5	6
81	Introduction to Majorana masses. International Journal of Theoretical Physics, 1984, 23, 643-674.	0.5	24
82	The physics behind path integrals in quantum mechanics. American Journal of Physics, 1983, 51, 328-334.	0.3	9
83	Hypercolor, extended hypercolor, and the generation problem. Physical Review D, 1982, 26, 1133-1156.	1.6	6
84	Extended Hypercolor and the Cabibbo Angle. Physical Review Letters, 1981, 47, 149-152.	2.9	9
85	Extended Hypercolor and The Cabibbo Angle.. Physical Review Letters, 1981, 47, 620-620.	2.9	2
86	Multigenerational Flavor-Color-Hypercolor Unification. Physical Review Letters, 1980, 45, 1135-1138.	2.9	28
87	Neutrino pairing as the origin of parity violation in a chiral flavor theory of weak interactions. Physical Review D, 1980, 22, 1729-1752.	1.6	10
88	Dynamical basis for the PoincarÃ© stresses. Nuclear Physics B, 1978, 143, 285-300.	0.9	10
89	Dynamical generation of extended structures in field theory. Physical Review D, 1976, 14, 2072-2080.	1.6	12
90	Structure of the vertex function in finite quantum electrodynamics. Physical Review D, 1975, 11, 3472-3480.	1.6	6

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91	Dynamical symmetry breaking as a bootstrap. Physical Review D, 1975, 12, 1772-1793.	1.6	12
92	Infrared bootstrap for the electron mass in finite quantum electrodynamics. Physical Review D, 1974, 10, 3311-3317.	1.6	13
93	Force-Constant Changes and the Crystal Impurity Problem. Physical Review B, 1971, 4, 3748-3756.	1.1	46
94	Influence of Force-Constant Changes on the Lattice Dynamics of Cubic Crystals with Point Defects. Physical Review, 1968, 165, 1011-1018.	2.7	97
95	Is the cosmological constant problem properly posed?. International Journal of Modern Physics D, 0, , 1743009.	0.9	0