Pisin Chen

List of Publications by Year
in descending order

154 papers	3,608 citations	186265 28 h-index	149698 56 g-index
157 all docs	157 docs citations	157 times ranked	2015 citing authors

#	Article	IF	Citations
1	Particle production by a relativistic semitransparent mirror in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mn>3</mml:mn><mml:mo) Tj ET Q q 1 1 0 784314 g Minkowski spacetime. Physical Review D, 2021, 103, .	4.7	
2	Lessons from black hole quasinormal modes in modified gravity. European Physical Journal Plus, 2021, 136, 1.	2.6	11
3	Generating rotating spacetime in Ricci-based gravity: naked singularity as a black hole mimicker. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 041.	5.4	8
4	Quantum Power Distribution of Relativistic Acceleration Radiation: Classical Electrodynamic Analogies with Perfectly Reflecting Moving Mirrors. Symmetry, 2021, 13, 653.	2.2	14
5	Generalized Holographic Principle, Gauge Invariance and the Emergence of Gravity Ã la Wilczek. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	12
6	Reflectivity and spectrum of relativistic flying plasma mirrors. Physics of Plasmas, 2021, 28, 103301.	1.9	3
7	Detection of Low-Energy X-rays Using YSO Scintillation Crystal Arrays for GRB Experiments. Universe, 2021, 7, 396.	2.5	0
8	Suppression of the long-wavelength CMB spectrum from the Hartleâ€“Hawking wave function in the Starobinsky-type inflation model. Physics of the Dark Universe, 2020, 27, 100435.	4.9	3
9	A consistent model of non-singular Schwarzschild black hole in loop quantum gravity and its quasinormal modes. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 066-066.	5.4	50
10	Asymptotic non-flatness of an effective black hole model based on loop quantum gravity. Physics of the Dark Universe, 2020, 30, 100701.	4.9	38
11	Eddington-inspired-Bornâ€“Infeld tensorial instabilities neutralized in a quantum approach. European Physical Journal C, 2020, 80, 1.	3.9	2
12	Fuzzy Euclidean wormholes in the inflationary universe. Physics of the Dark Universe, 2020, 28, 100492.	4.9	2
13	Eikonal black hole ringings in generalized energy-momentum squared gravity. Physical Review D, 2020, 101, .	4.7	19
14	Modification to the Hawking temperature of a dynamical black hole by a flow-induced supertranslation. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
15	Trajectory of a flying plasma mirror traversing a target with density gradient. Physics of Plasmas, 2020, 27, .	1.9	14
16	Annihilation-to-nothing: a quantum gravitational boundary condition for the Schwarzschild black hole. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 002-002.	5.4	9
17	Black hole perturbations and quasinormal modes in hybrid metric-Palatini gravity. Physical Review D, 2020, 102, .	4.7	10
18	A path(-integral) toward non-perturbative effects in Hawking radiation. International Journal of Modern Physics D, 2020, 29, 2050086.	2.1	4

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19	Relativistic Flying Mirrors as a Compact Source of Coherent Short-Wavelength Radiation. , 2020, , .		0
20	Hawking radiation as instantons. European Physical Journal C, 2019, 79, 1.	3.9	15
21	Inflationary spectral tilts as a result of the dilatation symmetry breaking. Physical Review D, 2019, 100, .	4.7	1
22	Emergent inflation from a Nambuâ€“Jona-Lasinio mechanism in gravity with non-dynamical torsion. European Physical Journal C, 2019, 79, 1.	3.9	6
23	Dark energy induced anisotropy in cosmic expansion. European Physical Journal C, 2019, 79, 1.	3.9	0
24	Primordial bouncing cosmology in the Deser-Woodard nonlocal gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 112-116.	4.1	10
25	Probing Palatini-type gravity theories through gravitational wave detections via quasinormal modes. European Physical Journal C, 2019, 79, 1.	3.9	16
26	Gravitational perturbations of nonsingular black holes in conformal gravity. Physical Review D, 2019, 99, .	4.7	23
27	Separability of the Klein-Gordon equation for rotating spacetimes obtained from Newman-Janis algorithm. Physical Review D, 2019, 100, .	4.7	16
28	Quantum cosmology of Eddington-Bornâ€“Infeld gravity fed by a scalar field: The big rip case. Physics of the Dark Universe, 2019, 23, 100255.	4.9	10
29	Black hole solutions in mimetic Born-Infeld gravity. European Physical Journal C, 2018, 78, 59.	3.9	30
30	Pre-Hawking radiation cannot prevent the formation of apparent horizon. Physical Review D, 2018, 97, .	4.7	19
31	Why concave rather than convex inflaton potential?. European Physical Journal C, 2018, 78, 1.	3.9	5
32	On the consistency of the Wheeler-deWitt equation in the quantized Eddington-inspired Born-Infeld gravity. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 032-032.	5.4	12
33	Suppression of long-wavelength CMB spectrum from the no-boundary initial condition. European Physical Journal C, 2018, 78, 1.	3.9	3
34	Regular instantons in the Eddington-inspired-Born-Infeld gravity: Lorentzian wormholes from bubble nucleations. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 056-056.	5.4	11
35	Quasinormal modes of massless scalar fields for charged black holes in the Palatini-type gravity. Physical Review D, 2018, 98, .	4.7	18
36	Accelerating Plasma Mirrors to Investigate the Black Hole Information Loss Paradox. Physical Review Letters, 2017, 118, 045001.	7.8	54

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37	Singular instantons in Eddington-inspired-Born-Infeld gravity. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 044-044.	5.4	12
38	Broken bridges: a counter-example of the ER=EPR conjecture. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 040-040.	5.4	14
39	Boundary Effect of Anomaly-Induced Action in Curved Spacetime. , 2017, , .		0
40	Doomsdays in a modified theory of gravity: A classical and a quantum approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 814-818.	4.1	16
41	Entropy evolution of moving mirrors and the information loss problem. Physical Review D, 2017, 96, .	4.7	33
42	Primordial cosmology in mimetic born-infeld gravity. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 053-053.	5.4	22
43	Fuzzy Euclidean wormholes in de Sitter space. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 001-001.	5.4	21
44	Phantom dark ghost in Einsteinâ€“Cartan gravity. European Physical Journal C, 2017, 77, 1.	3.9	1
45	Thermal activation of thin-shells in anti-de Sitter black hole spacetime. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
46	The Mimetic Born-Infeld Gravity: The Primordial Cosmos and Spherically Symmetric Solutions. Galaxies, 2017, 5, 87.	3.0	1
47	Feasibility of Determining Diffuse Ultra-High Energy Cosmic Neutrino Flavor Ratio through ARA Neutrino Observatory. , 2017, , .		0
48	Unclothed Firewalls. , 2017, , .		0
49	Stationary bubbles and their tunneling channels toward trivial geometry. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 013-013.	5.4	10
50	Unclothed firewalls. International Journal of Modern Physics D, 2016, 25, 1645003.	2.1	0
51	Modified Eddington-inspired-Born-Infeld Gravity with a Trace Term. European Physical Journal C, 2016, 76, 1.	3.9	33
52	What initial condition of inflation would suppress the large-scale CMB spectrum?. Physical Review D, 2016, 93, .	4.7	7
53	Quantization of spacetime based on a spacetime interval operator. Physical Review D, 2016, 93, .	4.7	3
54	Naked Black Hole Firewalls. Physical Review Letters, 2016, 116, 161304.	7.8	38

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55	A quantized spacetime based on Spin(3,1) symmetry. International Journal of Modern Physics D, 2016, 25, 1645004.	2.1	1
56	Two interpretations of thin-shell instantons. Physical Review D, 2016, 94, .	4.7	12
57	Phantom of the Hartleâ€“Hawking instanton: connecting inflation with dark energy. European Physical Journal C, 2016, 76, 1.	3.9	8
58	Particle-in-cell simulation of x-ray wakefield acceleration and betatron radiation in nanotubes. Physical Review Accelerators and Beams, 2016, 19, .	1.6	38
59	Boundary effect of anomaly-induced action. Physical Review D, 2015, 92, .	4.7	0
60	Cusp singularities in f(R) gravity:prosandcons. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 022-022.	5.4	4
61	Barotropic FRW cosmologies with Chiellini damping in comoving time. Modern Physics Letters A, 2015, 30, 1550100.	1.2	9
62	Barotropic FRW cosmologies with Chiellini damping. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 882-887.	2.1	13
63	Cold black holes in the Harlowâ€“Hayden approach to firewalls. Nuclear Physics B, 2015, 891, 627-654.	2.5	11
64	Did gamma ray burst induce Cambrian explosion?. Astronomy Reports, 2015, 59, 469-473.	0.9	3
65	Ghosts in the self-accelerating DGP branch with Gaussâ€“Bonnet effect. European Physical Journal C, 2015, 75, 1.	3.9	2
66	Eddingtonâ€“Bornâ€“Infeld cosmology: a cosmographic approach, a tale of doomsdays and the fate of bound structures. European Physical Journal C, 2015, 75, 1.	3.9	41
67	SEIBERG-WITTEN INSTABILITY OF VARIOUS TOPOLOGICAL BLACK HOLES. , 2015, , .		0
68	Cosmological singularities in Born-Infeld determinantal gravity. Physical Review D, 2014, 90, .	4.7	30
69	A new method to determine large scale structure from the luminosity distance. Classical and Quantum Gravity, 2014, 31, 115008.	4.0	8
70	Tensor perturbations from brane-world inflation with curvature effects. Physical Review D, 2014, 89, .	4.7	12
71	Generalized uncertainty principle: implications for black hole complementarity. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
72	The Strategy of Discrimination between Flavors for Detection of Cosmogenic Neutrinos. Nuclear Physics, Section B, Proceedings Supplements, 2014, 246-247, 95-98.	0.4	3

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73	Charge loss (or the lack thereof) for AdS black holes. Journal of High Energy Physics, 2014, 2014, 1.	4.7	6
74	Relic neutrinos: Physically consistent treatment of effective number of neutrinos and neutrino mass. Physical Review D, 2014, 89, .	4.7	14
75	Low-redshift formula for the luminosity distance in a LTB model with cosmological constant. European Physical Journal C, 2014, 74, 1.	3.9	5
76	Is Eddingtonâ€“Bornâ€“Infeld theory really free of cosmological singularities?. European Physical Journal C, 2014, 74, 1.	3.9	35
77	The strategy of discrimination between flavors for detection of cosmogenic neutrinos. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 119-123.	1.6	0
78	One-parameter families of supersymmetric isospectral potentials from Riccati solutions in function composition form. Annals of Physics, 2014, 343, 87-102.	2.8	15
79	Shifted one-parameter supersymmetric family of quartic asymmetric double-well potentials. Annals of Physics, 2014, 349, 33-42.	2.8	8
80	Recent Progress in Cosmology and Particle Astrophysics. , 2014, , .		0
81	The fate of monsters in anti-de Sitter spacetime. Journal of High Energy Physics, 2013, 2013, 1.	4.7	9
82	FUGACITY AND REHEATING OF PRIMORDIAL NEUTRINOS. Modern Physics Letters A, 2013, 28, 1350188.	1.2	3
83	Tradeoff between smoother and sooner â€œlittle ripâ€: European Physical Journal C, 2013, 73, 1.	3.9	29
84	Slow-roll inflation preceded by a topological defect phaseÃ laChaplygin gas. Physical Review D, 2013, 87, .	4.7	25
85	QUANTUM CORRECTIONS TO ENTROPIC GRAVITY. Modern Physics Letters A, 2013, 28, 1340010.	1.2	1
86	Feasibility of determining diffuse ultra-high energy cosmic neutrino flavor ratio through ARA neutrino observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 062-062.	5.4	5
87	Constraining primordial magnetic fields by CMB photon-graviton conversion. Physical Review D, 2013, 88, .	4.7	9
88	Planck constraints on Higgs modulated reheating of renormalization group improved inflation. Physical Review D, 2013, 88, .	4.7	21
89	Natural emergence of cosmological constant and dark radiation from the Stephenson-Kilmister-Yang-Camenzind theory of gravity. Physical Review D, 2013, 88, .	4.7	3
90	Electromagnetic signal of the QCD phase transition in neutron star mergers. Physical Review D, 2013, 88, .	4.7	8

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91	CONSTRAINING A MODEL OF VARYING ALPHA WITH PARITY AND CHARGE PARITY VIOLATION. , 2013, , .		0
92	BRANE-WORLD INFLATION: PERTURBATIONS AND COSMOLOGICAL CONSTRAINTS. , 2013, , .		0
93	QUANTUM CORRECTIONS TO ENTROPIC GRAVITY. , 2013, , .		0
94	LeCosPA's FOURTH ANNIVERSARY CELEBRATION ADDRESSES. , 2013, , .		0
95	CHERENKOV RADIATION INDUCED BY COSMOGENIC NEUTRINOS IN NEAR-FIELD. , 2013, , .		0
96	DISTINGUISHABILITY OF NEUTRINO FLAVORS THROUGH THEIR DIFFERENT SHOWER CHARACTERISTICS. , 2013, , .		0
97	NOTE ON HAWKINGâ€“UNRUH EFFECTS IN GRAPHENE. Modern Physics Letters A, 2012, 27, 1250218.	1.2	10
98	PRE INFLATION MATTER ERA AND CMB ANOMALY. International Journal of Modern Physics Conference Series, 2012, 12, 390-399.	0.7	0
99	Stringy stability of charged dilaton black holes with flat event horizon. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16
100	Gravitomagnetism and spinor quantum mechanics. Physical Review D, 2012, 85, .	4.7	17
101	Analyzing the effect on CMB in a parity and charge-parity violating varying alpha theory. Physical Review D, 2012, 85, .	4.7	0
102	Scalar perturbations from brane-world inflation with curvature effects. Physical Review D, 2012, 86, .	4.7	10
103	Near-field effects of Cherenkov radiation induced by ultra high energy cosmic neutrinos. Astroparticle Physics, 2012, 35, 421-434.	4.3	11
104	AN APPROACH TO TESTING DARK ENERGY BY OBSERVATIONS. , 2012, , .		0
105	Black hole remnants in the early universe. Physical Review D, 2011, 83, .	4.7	56
106	Stability of HoÅ™ava-Lifshitz black holes in the context of AdS/CFT. Physical Review D, 2011, 84, .	4.7	16
107	Cosmological imprints of a generalized Chaplygin gas model for the early universe. Physical Review D, 2011, 84, .	4.7	21
108	Constraining parity and charge-parity violating varying-alpha theory through laboratory experiments. Physical Review D, 2011, 84, .	4.7	2

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109	Cosmological behavior of a parity and charge-parity violating varying alpha theory. Physical Review D, 2011, 83, .	4.7	4
110	Solving the cusp-core problem with a novel scalar field dark matter. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 016-016.	5.4	12
111	APPARENT VERSUS TRUE VALUE OF THE COSMOLOGICAL CONSTANT. International Journal of Modern Physics D, 2011, 20, 2823-2830.	2.1	6
112	Constraining the detailed balance condition in HoÅ™ava gravity with cosmic accelerating expansion. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 015-015.	5.4	5
113	GAUGE THEORY OF GRAVITY WITH DE SITTER SYMMETRY AS A SOLUTION TO THE COSMOLOGICAL CONSTANT PROBLEM AND THE DARK ENERGY PUZZLE. Modern Physics Letters A, 2010, 25, 2795-2803.	1.2	13
114	Science of Extreme Light Infrastructure. , 2010, , .		3
115	Stress-energy tensor induced by a bulk Dirac spinor in the Randall-Sundrum model. Physical Review D, 2010, 81, .	4.7	17
116	Naturally minute quantum correction to the cosmological constant descended from the hierarchy. Physical Review D, 2010, 82, .	4.7	3
117	GAUGE THEORY OF GRAVITY WITH DE SITTER SYMMETRY AS A SOLUTION TO THE COSMOLOGICAL CONSTANT PROBLEM AND THE DARK ENERGY PUZZLE. , 2010, , .		0
118	CONSISTENCY TEST OF DARK ENERGY MODELS. Modern Physics Letters A, 2009, 24, 1649-1657.	1.2	19
119	Dark energy and the hierarchy problem. Nuclear Physics, Section B, Proceedings Supplements, 2009, 173, s8-s13.	0.4	8
120	Magnetowave Induced Plasma Wakefield Acceleration for Ultrahigh Energy Cosmic Rays. Physical Review Letters, 2009, 102, 111101.	7.8	21
121	Comment on â€œModeling galaxy halos using dark matter with pressureâ€• Physical Review D, 2009, 79, .	4.7	20
122	REMARKS BY THE DIRECTOR OF LeCosPA CENTER. Modern Physics Letters A, 2008, 23, 1238-1239.	1.2	0
123	INFLUENCE OF PLASMA COLLECTIVE EFFECTS ON COSMOLOGICAL EVOLUTION. Modern Physics Letters A, 2008, 23, 1707-1714.	1.2	0
124	A POSSIBLE CONNECTION BETWEEN DARK ENERGY AND THE HIERARCHY. Modern Physics Letters A, 2007, 22, 1995-2002.	1.2	3
125	PROSPECTS OF HIGH ENERGY LABORATORY ASTROPHYSICS. International Journal of Modern Physics B, 2007, 21, 312-318.	2.0	1
126	Plasma Suppression of Large Scale Structure Formation in the Universe. Physical Review Letters, 2007, 99, 231302.	7.8	7

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127	ARE Z-BURSTS RESPONSIBLE FOR THE SUPER-GZK ULTRA HIGH ENERGY COSMIC RAYS?. Modern Physics Letters A, 2006, 21, 713-720.	1.2	2
128	INTRODUCTION TO THE SALSA, A SALTDOME SHOWER ARRAY AS A GZK NEUTRINO OBSERVATORY. International Journal of Modern Physics A, 2006, 21, 252-253.	1.5	0
129	PLANCK-SIZE BLACK HOLE REMNANTS AS DARK MATTER. Modern Physics Letters A, 2004, 19, 1047-1054.	1.2	4
130	Black hole remnants and dark matter. Nuclear Physics, Section B, Proceedings Supplements, 2003, 124, 103-106.	0.4	144
131	Plasma Wakefield Acceleration for Ultrahigh-Energy Cosmic Rays. Physical Review Letters, 2002, 89, 161101.	7.8	97
132	Longitudinal laser shaping in laser wakefield accelerators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 125-130.	2.1	8
133	The Generalized Uncertainty Principle and Black Hole Remnants. General Relativity and Gravitation, 2001, 33, 2101-2108.	2.0	593
134	Testing Unruh Radiation with Ultraintense Lasers. Physical Review Letters, 1999, 83, 256-259.	7.8	153
135	Another glance at the rainbow. General Relativity and Gravitation, 1995, 27, 1129-1135.	2.0	1
136	Resonant Photon-Graviton Conversion and Cosmic Microwave Background Fluctuations. Physical Review Letters, 1995, 74, 634-637.	7.8	44
137	Radiation Reaction in a Continuous Focusing Channel. Physical Review Letters, 1995, 74, 1759-1762.	7.8	32
138	Hadron production inÎ³Î³collisions as a background fore+eâ^'linear colliders. Physical Review D, 1994, 49, 3209-3227.	4.7	35
139	Transverse equilibria and luminosity enhancement in linear collider beam-beam collisions. Physical Review E, 1994, 50, 526-531.	2.1	2
140	Differential luminosity under multiphoton beamstrahlung. Physical Review D, 1992, 46, 1186-1191.	4.7	55
141	Luminosity enhancement by focusing and colliding beams in a plasma. Physical Review A, 1992, 45, R3398-R3402.	2.5	8
142	Field-Gradient Effect in Quantum Beamstrahlung. Physical Review Letters, 1989, 62, 1213-1213.	7.8	2
143	Coherent pair creation in linear colliders. Physical Review Letters, 1989, 63, 1796-1799.	7.8	59
144	Beam optics of a self-focusing plasma lens. Physical Review D, 1989, 39, 2039-2045.	4.7	48

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145	Field-Gradient Effect in Quantum Beamstrahlung. Physical Review Letters, 1988, 61, 1101-1104.	7.8	24
146	Disruption effects from the interaction of rounde+eâˆ’beams. Physical Review D, 1988, 38, 987-1000.	4.7	43
147	Plasma Focusing for High-Energy Beams. IEEE Transactions on Plasma Science, 1987, 15, 218-225.	1.3	58
148	Energy Transfer in the Plasma Wake-Field Accelerator. Physical Review Letters, 1986, 56, 1252-1255.	7.8	70
149	Acceleration of Electrons by the Interaction of a Bunched Electron Beam with a Plasma. Physical Review Letters, 1985, 54, 693-696.	7.8	663
150	Acceleration of Electrons by the Interaction of a Bunched Electron Beam with a Plasma. Physical Review Letters, 1985, 55, 1537-1537.	7.8	31
151	Composite models and finite-width effects one+eâˆ’â†’Î¼+Î¼âˆ’asymmetry. Physical Review D, 1984, 29, 1309-1314.	4.7	1
152	Chiral-symmetry breaking in a composite model with scalars based on lattice gauge theory. Physical Review D, 1984, 30, 797-808.	4.7	0
153	An explicit solution for static unbounded helical dynamos. Geophysical and Astrophysical Fluid Dynamics, 1984, 30, 343-353.	1.2	5
154	Evolution condition for electroweak interactions in composite models. Physical Review D, 1983, 28, 1758-1769.	4.7	6