

Pisin Chen

List of Publications by Year in descending order

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154
papers

3,608
citations

186265
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149698
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157
all docs

157
docs citations

157
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Acceleration of Electrons by the Interaction of a Bunched Electron Beam with a Plasma. <i>Physical Review Letters</i> , 1985, 54, 693-696.	7.8	663
2	The Generalized Uncertainty Principle and Black Hole Remnants. <i>General Relativity and Gravitation</i> , 2001, 33, 2101-2108.	2.0	593
3	Testing Unruh Radiation with Ultraintense Lasers. <i>Physical Review Letters</i> , 1999, 83, 256-259.	7.8	153
4	Black hole remnants and dark matter. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 124, 103-106.	0.4	144
5	Plasma Wakefield Acceleration for Ultrahigh-Energy Cosmic Rays. <i>Physical Review Letters</i> , 2002, 89, 161101.	7.8	97
6	Energy Transfer in the Plasma Wake-Field Accelerator. <i>Physical Review Letters</i> , 1986, 56, 1252-1255.	7.8	70
7	Coherent pair creation in linear colliders. <i>Physical Review Letters</i> , 1989, 63, 1796-1799.	7.8	59
8	Plasma Focusing for High-Energy Beams. <i>IEEE Transactions on Plasma Science</i> , 1987, 15, 218-225.	1.3	58
9	Black hole remnants in the early universe. <i>Physical Review D</i> , 2011, 83, .	4.7	56
10	Differential luminosity under multiphoton beamstrahlung. <i>Physical Review D</i> , 1992, 46, 1186-1191.	4.7	55
11	Accelerating Plasma Mirrors to Investigate the Black Hole Information Loss Paradox. <i>Physical Review Letters</i> , 2017, 118, 045001.	7.8	54
12	A consistent model of non-singular Schwarzschild black hole in loop quantum gravity and its quasinormal modes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 066-066.	5.4	50
13	Beam optics of a self-focusing plasma lens. <i>Physical Review D</i> , 1989, 39, 2039-2045.	4.7	48
14	Resonant Photon-Graviton Conversion and Cosmic Microwave Background Fluctuations. <i>Physical Review Letters</i> , 1995, 74, 634-637.	7.8	44
15	Disruption effects from the interaction of round+e ⁻ beams. <i>Physical Review D</i> , 1988, 38, 987-1000.	4.7	43
16	Eddingtonâ€“Bornâ€“Infeld cosmology: a cosmographic approach, a tale of doomsdays and the fate of bound structures. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	41
17	Generalized uncertainty principle: implications for black hole complementarity. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	38
18	Naked Black Hole Firewalls. <i>Physical Review Letters</i> , 2016, 116, 161304.	7.8	38

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19	Asymptotic non-flatness of an effective black hole model based on loop quantum gravity. <i>Physics of the Dark Universe</i> , 2020, 30, 100701.	4.9	38
20	Particle-in-cell simulation of x-ray wakefield acceleration and betatron radiation in nanotubes. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	38
21	Hadron production in \sqrt{s} collisions as a background for e^+e^- linear colliders. <i>Physical Review D</i> , 1994, 49, 3209-3227.	4.7	35
22	Is Eddington-Born-Infeld theory really free of cosmological singularities?. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	35
23	Modified Eddington-inspired-Born-Infeld Gravity with a Trace Term. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	33
24	Entropy evolution of moving mirrors and the information loss problem. <i>Physical Review D</i> , 2017, 96, .	4.7	33
25	Radiation Reaction in a Continuous Focusing Channel. <i>Physical Review Letters</i> , 1995, 74, 1759-1762.	7.8	32
26	Acceleration of Electrons by the Interaction of a Bunched Electron Beam with a Plasma. <i>Physical Review Letters</i> , 1985, 55, 1537-1537.	7.8	31
27	Cosmological singularities in Born-Infeld determinantal gravity. <i>Physical Review D</i> , 2014, 90, .	4.7	30
28	Black hole solutions in mimetic Born-Infeld gravity. <i>European Physical Journal C</i> , 2018, 78, 59.	3.9	30
29	Tradeoff between smoother and sooner "little rip". <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	29
30	Slow-roll inflation preceded by a topological defect phase Chaplygin gas. <i>Physical Review D</i> , 2013, 87, .	4.7	25
31	Field-Gradient Effect in Quantum Beamstrahlung. <i>Physical Review Letters</i> , 1988, 61, 1101-1104.	7.8	24
32	Gravitational perturbations of nonsingular black holes in conformal gravity. <i>Physical Review D</i> , 2019, 99, .	4.7	23
33	Primordial cosmology in mimetic born-infeld gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 053-053.	5.4	22
34	Thermal activation of thin-shells in anti-de Sitter black hole spacetime. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	22
35	Magnetowave Induced Plasma Wakefield Acceleration for Ultrahigh Energy Cosmic Rays. <i>Physical Review Letters</i> , 2009, 102, 111101.	7.8	21
36	Cosmological imprints of a generalized Chaplygin gas model for the early universe. <i>Physical Review D</i> , 2011, 84, .	4.7	21

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37	Planck constraints on Higgs modulated reheating of renormalization group improved inflation. Physical Review D, 2013, 88, .	4.7	21
38	Fuzzy Euclidean wormholes in de Sitter space. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 001-001.	5.4	21
39	Comment on "Modeling galaxy halos using dark matter with pressure". Physical Review D, 2009, 79, .	4.7	20
40	CONSISTENCY TEST OF DARK ENERGY MODELS. Modern Physics Letters A, 2009, 24, 1649-1657.	1.2	19
41	Pre-Hawking radiation cannot prevent the formation of apparent horizon. Physical Review D, 2018, 97, .	4.7	19
42	Eikonal black hole ringings in generalized energy-momentum squared gravity. Physical Review D, 2020, 101, .	4.7	19
43	Quasinormal modes of massless scalar fields for charged black holes in the Palatini-type gravity. Physical Review D, 2018, 98, .	4.7	18
44	Stress-energy tensor induced by a bulk Dirac spinor in the Randall-Sundrum model. Physical Review D, 2010, 81, .	4.7	17
45	Gravitomagnetism and spinor quantum mechanics. Physical Review D, 2012, 85, .	4.7	17
46	Stability of Hořava-Lifshitz black holes in the context of AdS/CFT. Physical Review D, 2011, 84, .	4.7	16
47	Stringy stability of charged dilaton black holes with flat event horizon. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16
48	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
49	Probing Palatini-type gravity theories through gravitational wave detections via quasinormal modes. European Physical Journal C, 2019, 79, 1.	3.9	16
50	Separability of the Klein-Gordon equation for rotating spacetimes obtained from Newman-Janis algorithm. Physical Review D, 2019, 100, .	4.7	16
51	One-parameter families of supersymmetric isospectral potentials from Riccati solutions in function composition form. Annals of Physics, 2014, 343, 87-102.	2.8	15
52	Hawking radiation as instantons. European Physical Journal C, 2019, 79, 1.	3.9	15
53	Relic neutrinos: Physically consistent treatment of effective number of neutrinos and neutrino mass. Physical Review D, 2014, 89, .	4.7	14
54	Broken bridges: a counter-example of the ER=EPR conjecture. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 040-040.	5.4	14

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55	Quantum Power Distribution of Relativistic Acceleration Radiation: Classical Electrodynamics Analogies with Perfectly Reflecting Moving Mirrors. <i>Symmetry</i> , 2021, 13, 653.	2.2	14
56	Trajectory of a flying plasma mirror traversing a target with density gradient. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	14
57	GAUGE THEORY OF GRAVITY WITH DE SITTER SYMMETRY AS A SOLUTION TO THE COSMOLOGICAL CONSTANT PROBLEM AND THE DARK ENERGY PUZZLE. <i>Modern Physics Letters A</i> , 2010, 25, 2795-2803.	1.2	13
58	Barotropic FRW cosmologies with Chiellini damping. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 882-887.	2.1	13
59	Solving the cusp-core problem with a novel scalar field dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 016-016.	5.4	12
60	Tensor perturbations from brane-world inflation with curvature effects. <i>Physical Review D</i> , 2014, 89, .	4.7	12
61	Two interpretations of thin-shell instantons. <i>Physical Review D</i> , 2016, 94, .	4.7	12
62	Singular instantons in Eddington-inspired-Born-Infeld gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 044-044.	5.4	12
63	On the consistency of the Wheeler-deWitt equation in the quantized Eddington-inspired Born-Infeld gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 032-032.	5.4	12
64	Generalized Holographic Principle, Gauge Invariance and the Emergence of Gravity À la Wilczek. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	12
65	Near-field effects of Cherenkov radiation induced by ultra high energy cosmic neutrinos. <i>Astroparticle Physics</i> , 2012, 35, 421-434.	4.3	11
66	Cold black holes in the Harlow-Hayden approach to firewalls. <i>Nuclear Physics B</i> , 2015, 891, 627-654.	2.5	11
67	Regular instantons in the Eddington-inspired-Born-Infeld gravity: Lorentzian wormholes from bubble nucleations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 056-056.	5.4	11
68	Lessons from black hole quasinormal modes in modified gravity. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	11
69	NOTE ON HAWKING'S UNRUH EFFECTS IN GRAPHENE. <i>Modern Physics Letters A</i> , 2012, 27, 1250218.	1.2	10
70	Scalar perturbations from brane-world inflation with curvature effects. <i>Physical Review D</i> , 2012, 86, .	4.7	10
71	Stationary bubbles and their tunneling channels toward trivial geometry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 013-013.	5.4	10
72	Primordial bouncing cosmology in the Deser-Woodard nonlocal gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 796, 112-116.	4.1	10

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73	Quantum cosmology of Eddington-Born-Infeld gravity fed by a scalar field: The big rip case. Physics of the Dark Universe, 2019, 23, 100255.	4.9	10
74	Black hole perturbations and quasinormal modes in hybrid metric-Palatini gravity. Physical Review D, 2020, 102, .	4.7	10
75	The fate of monsters in anti-de Sitter spacetime. Journal of High Energy Physics, 2013, 2013, 1.	4.7	9
76	Constraining primordial magnetic fields by CMB photon-graviton conversion. Physical Review D, 2013, 88, .	4.7	9
77	Barotropic FRW cosmologies with Chiellini damping in comoving time. Modern Physics Letters A, 2015, 30, 1550100.	1.2	9
78	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
79	Luminosity enhancement by focusing and colliding beams in a plasma. Physical Review A, 1992, 45, R3398-R3402.	2.5	8
80	Longitudinal laser shaping in laser wakefield accelerators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 125-130.	2.1	8
81	Dark energy and the hierarchy problem. Nuclear Physics, Section B, Proceedings Supplements, 2009, 173, s8-s13.	0.4	8
82	Electromagnetic signal of the QCD phase transition in neutron star mergers. Physical Review D, 2013, 88, .	4.7	8
83	A new method to determine large scale structure from the luminosity distance. Classical and Quantum Gravity, 2014, 31, 115008.	4.0	8
84	Shifted one-parameter supersymmetric family of quartic asymmetric double-well potentials. Annals of Physics, 2014, 349, 33-42.	2.8	8
85	Phantom of the Hartle-Hawking instanton: connecting inflation with dark energy. European Physical Journal C, 2016, 76, 1.	3.9	8
86	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
87	Plasma Suppression of Large Scale Structure Formation in the Universe. Physical Review Letters, 2007, 99, 231302.	7.8	7
88	What initial condition of inflation would suppress the large-scale CMB spectrum?. Physical Review D, 2016, 93, .	4.7	7
89	Evolution condition for electroweak interactions in composite models. Physical Review D, 1983, 28, 1758-1769.	4.7	6
90	APPARENT VERSUS TRUE VALUE OF THE COSMOLOGICAL CONSTANT. International Journal of Modern Physics D, 2011, 20, 2823-2830.	2.1	6

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91	Charge loss (or the lack thereof) for AdS black holes. Journal of High Energy Physics, 2014, 2014, 1.	4.7	6
92	Emergent inflation from a Nambu–Jona-Lasinio mechanism in gravity with non-dynamical torsion. European Physical Journal C, 2019, 79, 1.	3.9	6
93	An explicit solution for static unbounded helical dynamos. Geophysical and Astrophysical Fluid Dynamics, 1984, 30, 343-353.	1.2	5
94	Constraining the detailed balance condition in Hořava gravity with cosmic accelerating expansion. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 015-015.	5.4	5
95	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
96	Low-redshift formula for the luminosity distance in a LTB model with cosmological constant. European Physical Journal C, 2014, 74, 1.	3.9	5
97	Why concave rather than convex inflaton potential?. European Physical Journal C, 2018, 78, 1.	3.9	5
98	PLANCK-SIZE BLACK HOLE REMNANTS AS DARK MATTER. Modern Physics Letters A, 2004, 19, 1047-1054.	1.2	4
99	Cosmological behavior of a parity and charge-parity violating varying alpha theory. Physical Review D, 2011, 83, .	4.7	4
100	Cusp singularities in f(R) gravity: pros and cons. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 022-022.	5.4	4
101	Particle production by a relativistic semitransparent mirror in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \langle \text{mml:mo stretchy="false" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Tj E4.Q1 1 0.784314} \rangle$ Minkowski spacetime. Physical Review D, 2021, 103, .		
102	A path(-integral) toward non-perturbative effects in Hawking radiation. International Journal of Modern Physics D, 2020, 29, 2050086.	2.1	4
103	A POSSIBLE CONNECTION BETWEEN DARK ENERGY AND THE HIERARCHY. Modern Physics Letters A, 2007, 22, 1995-2002.	1.2	3
104	Science of Extreme Light Infrastructure. , 2010, , .		3
105	Naturally minute quantum correction to the cosmological constant descended from the hierarchy. Physical Review D, 2010, 82, .	4.7	3
106	FUGACITY AND REHEATING OF PRIMORDIAL NEUTRINOS. Modern Physics Letters A, 2013, 28, 1350188.	1.2	3
107	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
108	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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109	Did gamma ray burst induce Cambrian explosion?. Astronomy Reports, 2015, 59, 469-473.	0.9	3
110	Quantization of spacetime based on a spacetime interval operator. Physical Review D, 2016, 93, .	4.7	3
111	Suppression of long-wavelength CMB spectrum from the no-boundary initial condition. European Physical Journal C, 2018, 78, 1.	3.9	3
112	Suppression of the long-wavelength CMB spectrum from the Hartle-Hawking wave function in the Starobinsky-type inflation model. Physics of the Dark Universe, 2020, 27, 100435.	4.9	3
113	Reflectivity and spectrum of relativistic flying plasma mirrors. Physics of Plasmas, 2021, 28, 103301.	1.9	3
114	Field-Gradient Effect in Quantum Beamstrahlung. Physical Review Letters, 1989, 62, 1213-1213.	7.8	2
115	Transverse equilibria and luminosity enhancement in linear collider beam-beam collisions. Physical Review E, 1994, 50, 526-531.	2.1	2
116	ARE Z-BURSTS RESPONSIBLE FOR THE SUPER-GZK ULTRA HIGH ENERGY COSMIC RAYS?. Modern Physics Letters A, 2006, 21, 713-720.	1.2	2
117	Constraining parity and charge-parity violating varying-alpha theory through laboratory experiments. Physical Review D, 2011, 84, .	4.7	2
118	Ghosts in the self-accelerating DGP branch with Gauss-Bonnet effect. European Physical Journal C, 2015, 75, 1.	3.9	2
119	Eddington-inspired-Born-Infeld tensorial instabilities neutralized in a quantum approach. European Physical Journal C, 2020, 80, 1.	3.9	2
120	Fuzzy Euclidean wormholes in the inflationary universe. Physics of the Dark Universe, 2020, 28, 100492.	4.9	2
121	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
122	Composite models and finite-width effects on $e^+e^- \rightarrow \mu^+\mu^-$ asymmetry. Physical Review D, 1984, 29, 1309-1316.	1.67	1
123	Another glance at the rainbow. General Relativity and Gravitation, 1995, 27, 1129-1135.	2.0	1
124	PROSPECTS OF HIGH ENERGY LABORATORY ASTROPHYSICS. International Journal of Modern Physics B, 2007, 21, 312-318.	2.0	1
125	QUANTUM CORRECTIONS TO ENTROPIC GRAVITY. Modern Physics Letters A, 2013, 28, 1340010.	1.2	1
126	A quantized spacetime based on $Spin(3,1)$ symmetry. International Journal of Modern Physics D, 2016, 25, 1645004.	2.1	1

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127	Phantom dark ghost in Einstein–Cartan gravity. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	1
128	The Mimetic Born-Infeld Gravity: The Primordial Cosmos and Spherically Symmetric Solutions. <i>Galaxies</i> , 2017, 5, 87.	3.0	1
129	Inflationary spectral tilts as a result of the dilatation symmetry breaking. <i>Physical Review D</i> , 2019, 100, .	4.7	1
130	Chiral-symmetry breaking in a composite model with scalars based on lattice gauge theory. <i>Physical Review D</i> , 1984, 30, 797-808.	4.7	0
131	INTRODUCTION TO THE SALSA, A SALTDOME SHOWER ARRAY AS A GZK NEUTRINO OBSERVATORY. <i>International Journal of Modern Physics A</i> , 2006, 21, 252-253.	1.5	0
132	REMARKS BY THE DIRECTOR OF LeCosPA CENTER. <i>Modern Physics Letters A</i> , 2008, 23, 1238-1239.	1.2	0
133	INFLUENCE OF PLASMA COLLECTIVE EFFECTS ON COSMOLOGICAL EVOLUTION. <i>Modern Physics Letters A</i> , 2008, 23, 1707-1714.	1.2	0
134	PRE INFLATION MATTER ERA AND CMB ANOMALY. <i>International Journal of Modern Physics Conference Series</i> , 2012, 12, 390-399.	0.7	0
135	Analyzing the effect on CMB in a parity and charge-parity violating varying alpha theory. <i>Physical Review D</i> , 2012, 85, .	4.7	0
136	CONSTRAINING A MODEL OF VARYING ALPHA WITH PARITY AND CHARGE PARITY VIOLATION. , 2013, , .		0
137	BRANE-WORLD INFLATION: PERTURBATIONS AND COSMOLOGICAL CONSTRAINTS. , 2013, , .		0
138	QUANTUM CORRECTIONS TO ENTROPIC GRAVITY. , 2013, , .		0
139	LeCosPA's FOURTH ANNIVERSARY CELEBRATION ADDRESSES. , 2013, , .		0
140	CHERENKOV RADIATION INDUCED BY COSMOGENIC NEUTRINOS IN NEAR-FIELD. , 2013, , .		0
141	DISTINGUISHABILITY OF NEUTRINO FLAVORS THROUGH THEIR DIFFERENT SHOWER CHARACTERISTICS. , 2013, , .		0
142	The strategy of discrimination between flavors for detection of cosmogenic neutrinos. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 742, 119-123.	1.6	0
143	Boundary effect of anomaly-induced action. <i>Physical Review D</i> , 2015, 92, .	4.7	0
144	Unclothed firewalls. <i>International Journal of Modern Physics D</i> , 2016, 25, 1645003.	2.1	0

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145	Boundary Effect of Anomaly-Induced Action in Curved Spacetime. , 2017, , .		0
146	Dark energy induced anisotropy in cosmic expansion. European Physical Journal C, 2019, 79, 1.	3.9	0
147	Detection of Low-Energy X-rays Using YSO Scintillation Crystal Arrays for GRB Experiments. Universe, 2021, 7, 396.	2.5	0
148	GAUGE THEORY OF GRAVITY WITH DE SITTER SYMMETRY AS A SOLUTION TO THE COSMOLOGICAL CONSTANT PROBLEM AND THE DARK ENERGY PUZZLE. , 2010, , .		0
149	AN APPROACH TO TESTING DARK ENERGY BY OBSERVATIONS. , 2012, , .		0
150	Recent Progress in Cosmology and Particle Astrophysics. , 2014, , .		0
151	SEIBERG-WITTEN INSTABILITY OF VARIOUS TOPOLOGICAL BLACK HOLES. , 2015, , .		0
152	Feasibility of Determining Diffuse Ultra-High Energy Cosmic Neutrino Flavor Ratio through ARA Neutrino Observatory. , 2017, , .		0
153	Unclothed Firewalls. , 2017, , .		0
154	Relativistic Flying Mirrors as a Compact Source of Coherent Short-Wavelength Radiation. , 2020, , .		0