

Josif Frenkel

List of Publications by Year in descending order

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178
papers

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218381

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179
all docs

179
docs citations

179
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Transformation of light into Heat in Solids. I. Physical Review, 1931, 37, 17-44.	2.7	800
2	Zur Theorie der Elastizitätsgrenze und der Festigkeit kristallinischer Körper. European Physical Journal A, 1926, 37, 572-609.	1.0	439
3	High-temperature limit of thermal QCD. Nuclear Physics B, 1990, 334, 199-216.	0.9	416
4	Über die Wärmebewegung in festen und flüssigen Körpern. European Physical Journal A, 1926, 35, 652-669.	1.0	407
5	Die Elektrodynamik des rotierenden Elektrons. European Physical Journal A, 1926, 37, 243-262.	1.0	388
6	Theorie der Adsorption und verwandter Erscheinungen. European Physical Journal A, 1924, 26, 117-138.	1.0	325
7	Non-abelian eikonal exponentiation. Nuclear Physics B, 1984, 246, 231-245.	0.9	249
8	Hard thermal QCD, forward scattering and effective actions. Nuclear Physics B, 1992, 374, 156-168.	0.9	159
9	Counter-example to non-abelian Bloch-Nordsieck conjecture. Nuclear Physics B, 1980, 168, 93-110.	0.9	141
10	Asymptotic freedom in the axial and coulomb gauges. Nuclear Physics B, 1976, 109, 439-451.	0.9	88
11	Exponentiation of leading infrared divergences in massless Yang-Mills theories. Nuclear Physics B, 1976, 116, 185-194.	0.9	82
12	Zur Elektrodynamik punktförmiger Elektronen. European Physical Journal A, 1925, 32, 518-534.	1.0	62
13	4/3 problem in classical electrodynamics. Physical Review E, 1996, 54, 5859-5862.	0.8	60
14	Elementare Theorie magnetischer und elektrischer Eigenschaften der Metalle beim absoluten Nullpunkt der Temperatur. European Physical Journal A, 1928, 49, 31-45.	1.0	53
15	Über die elektrische Oberflächenschicht der Metalle. European Physical Journal A, 1928, 51, 232-238.	1.0	52
16	Soft divergences in perturbative QCD. Nuclear Physics B, 1981, 182, 104-124.	0.9	49
17	Pressure in thermal scalar field theory to three-loop order. Physical Review D, 1992, 46, 3670-3673.	1.6	43
18	Class of ghost-free non-Abelian gauge theories. Physical Review D, 1976, 13, 2325-2334.	1.6	42

#	ARTICLE	IF	CITATIONS
19	Structure of the graviton self-energy at finite temperature. <i>Physical Review D</i> , 1998, 58, .	1.6	37
20	Thermal matter and radiation in a gravitational field. <i>Physical Review D</i> , 1994, 49, 4196-4208.	1.6	35
21	Real and virtual infrared behaviour in Yang-Mills theory. <i>Nuclear Physics B</i> , 1977, 121, 58-76.	0.9	33
22	Quark-antiquark annihilation is infrared safe at high energy to all orders. <i>Nuclear Physics B</i> , 1984, 233, 307-335.	0.9	31
23	Infrared behaviour of self-energy functions in the axial gauge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1976, 65, 64-68.	1.5	30
24	Hard thermal loops in a gravitational field. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 49, 515-520.	1.5	30
25	Infra-red behaviour in non-abelian gauge theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1976, 64, 211-212.	1.5	29
26	Anwendung der Pauli-Fermischen Elektronengastheorie auf das Problem der Kohärenz. <i>European Physical Journal A</i> , 1928, 50, 234-248.	1.0	26
27	Zur Theorie der Resonanzverbreiterung von Spektrallinien. <i>European Physical Journal A</i> , 1930, 59, 198-207.	1.0	26
28	Metric dependence of partition function at high temperature. <i>Nuclear Physics B</i> , 1992, 374, 169-182.	0.9	25
29	Three-graviton vertex function in thermal quantum gravity. <i>Physical Review D</i> , 1993, 47, 4688-4697.	1.6	25
30	Leading non-cancelling infrared divergences in perturbative QCD. <i>Nuclear Physics B</i> , 1981, 183, 445-470.	0.9	22
31	General structure of the photon self-energy in noncommutative QED. <i>Physical Review D</i> , 2002, 65, .	1.6	22
32	On the quantization and asymptotic freedom of Yang-Mills theory in the temporal gauge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979, 85, 63-66.	1.5	21
33	High-temperature QCD and the classical Boltzmann equation in curved spacetime. <i>Nuclear Physics B</i> , 1995, 437, 433-443.	0.9	21
34	Generalized forward scattering amplitudes in QCD at high temperature. <i>Physical Review D</i> , 1997, 56, 2453-2456.	1.6	21
35	General covariant gauge fixing for massless spin-two fields. <i>Physical Review D</i> , 2007, 76, .	1.6	21
36	Beitrag zur Theorie der Metalle. <i>Zeitschrift für Physik</i> , 1924, 29, 214-240.	0.7	20

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37	Background gauge renormalization and BRST identities. <i>Annals of Physics</i> , 2018, 389, 234-238.	1.0	20
38	Behaviour of leading infra-red divergences of QCD in the axial gauge. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1976, 65, 383-385.	1.5	19
39	Asymptotic states and infrared divergences in non-abelian theories. <i>Nuclear Physics B</i> , 1982, 194, 172-180.	0.9	19
40	Energy-momentum tensor in noncommutative gauge theories. <i>Physical Review D</i> , 2003, 67, .	1.6	19
41	THE SELF-FORCE OF A CHARGED PARTICLE IN CLASSICAL ELECTRODYNAMICS WITH A CUTOFF. <i>International Journal of Modern Physics B</i> , 1999, 13, 315-324.	1.0	18
42	Beitrag zur elektrischen Theorie der festen Körper. <i>European Physical Journal A</i> , 1924, 25, 1-30.	1.0	17
43	Drell-Yan formula in perturbation theory. <i>Nuclear Physics B</i> , 1979, 148, 228-244.	0.9	17
44	Retarded Green's functions and forward scattering amplitudes in thermal field theory. <i>Physical Review D</i> , 1999, 59, .	1.6	17
45	Thermal operator representation of finite temperature graphs. <i>Physical Review D</i> , 2005, 72, .	1.6	17
46	Calculation of finite-temperature effects in field theories. <i>Physical Review D</i> , 1991, 44, 1801-1810.	1.6	16
47	Non-leading infrared divergences in Yang-Mills theory. <i>Nuclear Physics B</i> , 1977, 124, 268-284.	0.9	15
48	The long wavelength limit of hard thermal loop effective actions. <i>Nuclear Physics B</i> , 2009, 814, 366-369.	0.9	14
49	Zur wellenmechanischen Theorie der metallischen Leitfähigkeit. <i>European Physical Journal A</i> , 1928, 47, 819-834.	1.0	13
50	Infrared behavior of three- and four-gluon vertices in Yang-Mills theory. <i>Physical Review D</i> , 1986, 33, 464-476.	1.6	13
51	Retarded thermal Green's functions and forward scattering amplitudes at two loops. <i>Physical Review D</i> , 1999, 60, .	1.6	13
52	Infrared divergences, mass shell singularities and gauge dependence of the dynamical fermion mass. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 720, 414-418.	1.5	13
53	The energy of the high-temperature quark-gluon plasma. <i>Nuclear Physics B</i> , 1993, 410, 3-22.	0.9	12
54	High temperature $\ln(T)$ contributions in thermal field theory. <i>Physical Review D</i> , 1997, 55, 7808-7814.	1.6	12

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55	Parity-violating electromagnetic interactions in three-dimensional QED at finite temperature. Physical Review D, 2000, 62, .	1.6	12
56	Thermal operator representation of finite temperature graphs. II.. Physical Review D, 2006, 73, .	1.6	12
57	Cancellation of soft interactions with spectators in the Drell-Yan process. Nuclear Physics B, 1989, 312, 589-615.	0.9	11
58	High-temperature field theory in curved spacetime. Nuclear Physics B, 1995, 439, 131-143.	0.9	11
59	Quantum behavior of a charged particle in an axial magnetic field. Physical Review A, 2004, 70, .	1.0	11
60	Finite temperature effective actions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 195-198.	1.5	11
61	Zur wellenmechanischen Theorie der metallischen Leitfähigkeit. European Physical Journal A, 1928, 49, 885-893.	1.0	10
62	Complex Cabibbo angle and CP violation in a class of gauge theories. Nuclear Physics B, 1974, 83, 177-188.	0.9	10
63	Graviton self-energy in thermal quantum gravity. Physical Review D, 1993, 48, 4940-4945.	1.6	10
64	Nonlinear Electromagnetic Interactions in Thermal QED. Physical Review Letters, 1995, 74, 1705-1707.	2.9	10
65	Kontsevich product and gauge invariance. Physical Review D, 2004, 69, .	1.6	10
66	On the free energy of noncommutative quantum electrodynamics at high temperature. Nuclear Physics B, 2006, 754, 146-177.	0.9	10
67	BRST renormalization of the first order Yang-Mills theory. Annals of Physics, 2017, 387, 1-13.	1.0	10
68	Effective actions for Braaten-Pisarski resummation. Canadian Journal of Physics, 1993, 71, 219-226.	0.4	9
69	Nonlinear interaction between electromagnetic fields at high temperature. Physical Review D, 1994, 50, 4110-4116.	1.6	9
70	Absence of higher order corrections to the non-Abelian Chern-Simons coefficient. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 494, 339-345.	1.5	9
71	Factorization of finite temperature graphs in thermal QED. Physical Review D, 2006, 73, .	1.6	9
72	Renormalization of six-dimensional Yang-Mills theory in a background gauge field. Physical Review D, 2019, 99, .	1.6	9

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73	Über die Formel $f_{\frac{1}{2}r}$ das mittlere Gitterpotential. European Physical Journal A, 1930, 59, 649-650.	1.0	8
74	On the Coulomb solution of Yang-Mills equations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 88, 102-104.	1.5	8
75	Two-loop corrections to the topological mass term in thermal QED3. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 492, 393-397.	1.5	8
76	Static effective action for noncommutative QED at high temperature. Physical Review D, 2003, 67, .	1.6	8
77	Coordinate noncommutativity in strong nonuniform magnetic fields. Physical Review D, 2004, 69, .	1.6	8
78	Effective actions at finite temperature. Physical Review D, 2009, 80, .	1.6	8
79	Noise in resistively shunted Josephson junctions. Physical Review B, 2010, 82, .	1.1	8
80	Über quantenmechanische Energieübertragung zwischen atomaren Systemen. European Physical Journal A, 1929, 58, 794-804.	1.0	7
81	Color-dielectric parameter in (2+1)-dimensional QCD. Physical Review D, 1987, 36, 1247-1253.	1.6	7
82	Infrared behavior of the pressure in the ladder approximation. Physical Review D, 1993, 47, 640-647.	1.6	7
83	Large gauge Ward identity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 472, 332-340.	1.5	7
84	Transport equation and hard thermal loops in noncommutative Yang-Mills theory. Physical Review D, 2002, 66, .	1.6	7
85	Hard thermal effects in noncommutative $U(N)$ Yang-Mills theory. Physical Review D, 2002, 65, .	1.6	7
86	Hard thermal effective actions in the Schwinger formulation. Physical Review D, 2007, 75, .	1.6	7
87	Hard thermal loops in static external fields. Physical Review D, 2009, 79, .	1.6	7
88	Dual symmetry in a generalized Maxwell theory. Modern Physics Letters A, 2016, 31, 1650184.	0.5	7
89	On restricting first order form of gauge theories to one-loop order. Annals of Physics, 2021, 427, 168426.	1.0	7
90	Forward scattering amplitudes and the thermal operator representation. Physical Review D, 2006, 74, .	1.6	6

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91	Gauge dependence of renormalization group parameters in ghost-free non-abelian gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1975, 60, 74-76.	1.5	5
92	On the exponentiation of leading infrared divergences in massless Yang-Mills theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 73, 171-175.	1.5	5
93	Soft gluons and the eikonal approximation with massless quarks. Nuclear Physics B, 1983, 228, 529-536.	0.9	5
94	Electron-positron annihilation and non-abelian eikonal exponentiation. Nuclear Physics B, 1986, 269, 235-252.	0.9	5
95	An eikonal line-integral model and factorization in QCD. Zeitschrift für Physik C-Particles and Fields, 1987, 35, 361-368.	1.5	5
96	Closed-form expressions for thermal Green's functions in field theories. Physical Review D, 1992, 45, 2081-2085.	1.6	5
97	Behavior of logarithmic branch cuts in the self-energy of gluons at finite temperature. Physical Review D, 1999, 60, .	1.6	5
98	Derivative expansion and the parity violating effective action for thermal(2+1)-dimensional QED at higher orders. Physical Review D, 2001, 64, .	1.6	5
99	Classical transport equation in noncommutative QED at high temperature. Physical Review D, 2002, 66, .	1.6	5
100	Background field quantization and non-commutative Maxwell theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 577, 76-82.	1.5	5
101	Thermal operator and cutting rules at finite temperature and chemical potential. Physical Review D, 2006, 74, .	1.6	5
102	Fermionic contributions to the free energy of noncommutative quantum electrodynamics at high temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 483-487.	1.5	5
103	Infrared chiral anomaly at finite temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 556-559.	1.5	5
104	Hard thermal loops in long wave-length and static external gravitational fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 157-159.	1.5	5
105	Renormalization of a diagonal formulation of first order Yang-Mills theory. Physical Review D, 2018, 98, .	1.6	5
106	Use of Lagrange multiplier fields to eliminate multiloop corrections. Physical Review D, 2019, 100, .	1.6	5
107	Consistency conditions for the first-order formulation of Yang-Mills theory. Physical Review D, 2020, 101, .	1.6	5
108	Die Bewegung eines freien Elektrons im Felde ebener elektromagnetischer Wellen. European Physical Journal A, 1925, 32, 27-31.	1.0	4

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109	Zur Theorie des Faradayeffektes. European Physical Journal A, 1926, 36, 215-250.	1.0	4
110	Zur Wellenmechanik des rotierenden Elektrons. European Physical Journal A, 1928, 47, 786-803.	1.0	4
111	Bjorken limit and renormalization group equations in a class of ghost-free gauge theories. Il Nuovo Cimento A, 1976, 32, 313-325.	0.2	4
112	Model of confinement in (2+1)-dimensional QCD. Physical Review D, 1986, 33, 2455-2461.	1.6	4
113	THE BOLTZMANN EQUATION IN SCALAR FIELD THEORY. International Journal of Modern Physics A, 1998, 13, 4281-4288.	0.5	4
114	Absence of higher order corrections to the non-Abelian topological mass term. Physical Review D, 2001, 63, .	1.6	4
115	Dispersion relations for the self-energy in noncommutative field theories. Physical Review D, 2002, 66, .	1.6	4
116	Transport equation for the photon Wigner operator in noncommutative QED. Physical Review D, 2003, 68, .	1.6	4
117	QED plasma in a background of static gravitational fields. Physical Review D, 2014, 89, .	1.6	4
118	Restricting loop expansions in gauge theories coupled to matter. Annals of Physics, 2021, 434, 168659.	1.0	4
119	Induced parity violating thermal effective action for(2+1)-dimensional fermions interacting with a non-Abelian background. Physical Review D, 2002, 65, .	1.6	3
120	Path integral approach to residual gauge fixing. Physical Review D, 2004, 70, .	1.6	3
121	Distribution functions for hard thermal particles in QCD. Nuclear Physics B, 2004, 685, 393-402.	0.9	3
122	Instabilities in thermal gravity with a cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 264-266.	1.5	3
123	Thermal effective action for $1 < / m m l : m n > < m m l : m o > + < / m m l : m o > < m m l : m n > 1 < / m m l : m n > < / m m l : m a t h >$ dimensional massive QED. Physical Review D, 2010, 82, .	1.6	3
124	The thermal chiral anomaly in the Schwinger model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 85-88.	1.5	3
125	Conditions for the validity of the quantum Langevin equation. Physical Review E, 2012, 85, 011135.	0.8	3
126	Nonanalyticity of the free energy in thermal field theory. Physical Review D, 2012, 86, .	1.6	3

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127	The pole of the fermion propagator in a general class of gauges. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 493-496.	1.5	3
128	Gauge independence of the fermion pole mass. Physical Review D, 2013, 88, .	1.6	3
129	Derivation of the fluctuation-dissipation theorem from unitarity. Modern Physics Letters A, 2015, 30, 1550163.	0.5	3
130	First order formulation of the Yang-Mills theory in a background field. Annals of Physics, 2019, 409, 167932.	1.0	3
131	Structural identities in the first-order formulation of quantum gravity. Physical Review D, 2020, 102, .	1.6	3
132	Thermal gauge theories with Lagrange multiplier fields. Canadian Journal of Physics, 2022, 100, 139-144.	0.4	3
133	Classical spectrum of non-relativistic bremsstrahlung. European Journal of Physics, 1992, 13, 286-288.	0.3	2
134	Finite temperature gluon self-energy in a class of temporal gauges. Physical Review D, 2000, 61, .	1.6	2
135	Non-Abelian thermal large gauge transformations in 2+1 dimensions. Physical Review D, 2002, 65, .	1.6	2
136	Propagators with the Mandelstam-Leibbrandt prescription in the light-cone gauge. Physical Review D, 2005, 71, .	1.6	2
137	Unruh effect in the general light-front frame. Physical Review D, 2005, 71, .	1.6	2
138	Hard thermal effective action in QCD through the thermal operator. Physical Review D, 2007, 76, .	1.6	2
139	Thermal instability in a gravity-like scalar theory. Physical Review D, 2008, 78, .	1.6	2
140	Resummation of infrared divergences in the free energy of spin-two fields. Physical Review D, 2009, 80, .	1.6	2
141	Hard Thermal Loops in the n-Dimensional \mathbb{R}^3 Theory. Brazilian Journal of Physics, 2012, 42, 425-427.	0.7	2
142	Hard thermal loops in static background fields. European Physical Journal C, 2013, 73, 1.	1.4	2
143	Large-time behavior in an exactly soluble out of equilibrium model. Physical Review D, 2014, 89, .	1.6	2
144	Forward scattering amplitudes in the imaginary time formalism. Physical Review D, 2021, 104, .	1.6	2

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145	Zur Theorie der Kohäsionskräfte in festen Dielektrika II. European Physical Journal A, 1924, 30, 50-62.	1.0	1
146	Die Kinetik der Dissoziation von zweiatomigen Molekülen. European Physical Journal A, 1928, 48, 216-230.	1.0	1
147	Die Wellenmechanik des rotierenden Elektrons und die Grundgleichungen des elektromagnetischen Feldes. European Physical Journal A, 1929, 52, 356-363.	1.0	1
148	Unified gauge theories and the electron-muon mass ratio. Nuclear Physics B, 1973, 61, 230-244.	0.9	1
149	Heavy fermions and proton-neutron mass difference. Nuclear Physics B, 1974, 74, 125-144.	0.9	1
150	Remark on a class of Faddeev-Popov Lagrangians in gauge theories. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1975, 13, 529-533.	0.4	1
151	Gauge-invariant Wilson operators and radiative corrections to hadrons. Physical Review D, 1975, 12, 3963-3968.	1.6	1
152	Threshold infrared behaviour in perturbative QCD. Nuclear Physics B, 1982, 194, 328-348.	0.9	1
153	Asymptotic behavior of quark masses induced by instantons. Physical Review D, 1985, 31, 949-951.	1.6	1
154	Antiscreening effects of classical Yang-Mills fields. Journal of Physics G: Nuclear Physics, 1987, 13, 1317-1325.	0.8	1
155	Nonlinear couplings and tree amplitudes in gauge theories. Physical Review D, 1996, 53, 911-915.	1.6	1
156	Kronecker delta energy terms in thermal field theory. Physical Review D, 2002, 65, .	1.6	1
157	Thermal operator and dispersion relation in QED at finite temperature and chemical potential. Physical Review D, 2007, 76, .	1.6	1
158	Causal amplitudes in the Schwinger model at finite temperature. Physical Review D, 2012, 86, .	1.6	1
159	Generalized fluctuation-dissipation theorem in a soluble out of equilibrium model. Physical Review D, 2015, 92, .	1.6	1
160	Über den Einfluss der Ionengröße auf die Zustandsgleichung starker Elektrolyte. European Physical Journal A, 1926, 35, 239-242.	1.0	0
161	Über die Geschwindigkeit monomolekularer Reaktionen. European Physical Journal A, 1930, 62, 49-53.	1.0	0
162	Chemische Kräfte und molekulare Attraktion. European Physical Journal A, 1930, 59, 638-639.	1.0	0

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163	Eine Revision der klassischen Theorie der Stoß $\frac{1}{2}$ wirkungen in einem Gase. European Physical Journal A, 1930, 59, 640-648.	1.0	0
164	Radiative corrections to the low-energy theorem for pseudoscalar meson $\hat{\pi}^3$ in the Wienberg model. Nuclear Physics B, 1974, 81, 517-524.	0.9	0
165	New renormalization group equations in a spontaneously broken gauge theory. Il Nuovo Cimento A, 1975, 30, 93-110.	0.2	0
166	Infrared divergences in quantum chromodynamics. , 1980, , .		0
167	Long-distance behavior of quark form factor in QCD. Physical Review D, 1989, 39, 953-959.	1.6	0
168	Mean-field analysis of SU(3) lattice Yang-Mills theory at finite temperature. Il Nuovo Cimento A, 1990, 103, 1245-1253.	0.2	0
169	Multiparticle tree amplitudes in scalar field theory. Physical Review D, 1996, 53, 2256-2259.	1.6	0
170	The Electron Self-Energy in a Classical Spin Model. Modern Physics Letters B, 1997, 11, 189-193.	1.0	0
171	Soluble theory of massless scalar two-dimensional QED. Physical Review D, 1999, 59, .	1.6	0
172	General structure of the graviton self-energy. Physical Review D, 1999, 59, .	1.6	0
173	Behavior of the thermal gluon self-energy in the Coulomb gauge. Physical Review D, 2000, 62, .	1.6	0
174	Improved ring approximation for the free energy in thermal scalar field theory. Europhysics Letters, 2014, 105, 51001.	0.7	0
175	Generalized Kadanoff-Baym relation in nonequilibrium quenched models. Physical Review D, 2016, 93, .	1.6	0
176	Effective action for hard thermal loops in gravitational fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 205-207.	1.5	0
177	Fermion propagator in an external potential and generalized Airy functions. Modern Physics Letters A, 2017, 32, 1750171.	0.5	0
178	Licht und Materie. , 1929, , 1-79.		0