

# Joannis Papavassiliou

## List of Publications by Year in descending order

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147  
papers

6,023  
citations

50273

46  
h-index

82542

72  
g-index

149  
all docs

149  
docs citations

149  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gluon and ghost propagators in the Landau gauge: Deriving lattice results from Schwinger-Dyson equations. <i>Physical Review D</i> , 2008, 78, .	4.7	405
2	Pinch technique: Theory and applications. <i>Physics Reports</i> , 2009, 479, 1-152.	25.6	323
3	Gauge-invariant three-gluon vertex in QCD. <i>Physical Review D</i> , 1989, 40, 3474-3485.	4.7	295
4	Bridging a gap between continuum-QCD and ab initio predictions of hadron observables. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 742, 183-188.	4.1	175
5	Nonperturbative comparison of QCD effective charges. <i>Physical Review D</i> , 2009, 80, .	4.7	153
6	Gauge-invariant proper self-energies and vertices in gauge theories with broken symmetry. <i>Physical Review D</i> , 1990, 41, 3179-3191.	4.7	128
7	Gluon mass generation in the PT-BFM scheme. <i>Journal of High Energy Physics</i> , 2006, 2006, 012-012.	4.7	125
8	Pion and kaon structure at the electron-ion collider. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	110
9	Process-independent strong running coupling. <i>Physical Review D</i> , 2017, 96, .	4.7	105
10	Pinch technique to all orders. <i>Physical Review D</i> , 2002, 66, .	4.7	88
11	Gauge Invariance and Unstable Particles. <i>Physical Review Letters</i> , 1995, 75, 3060-3063.	7.8	87
12	Symmetry preserving truncations of the gap and Bethe-Salpeter equations. <i>Physical Review D</i> , 2016, 93, .	4.7	86
13	Universal extra dimensions and $Z\hat{+}\gamma^*bb^{\hat{-}}$ . <i>Physical Review D</i> , 2003, 67, .	4.7	81
14	Chiral symmetry breaking with lattice propagators. <i>Physical Review D</i> , 2011, 83, .	4.7	79
15	Natural constraints on the gluon-quark vertex. <i>Physical Review D</i> , 2017, 95, .	4.7	77
16	On the zero crossing of the three-gluon vertex. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 761, 444-449.	4.1	76
17	Pinch technique self-energies and vertices to all orders in perturbation theory. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, 203-234.	3.6	74
18	Unquenching the gluon propagator with Schwinger-Dyson equations. <i>Physical Review D</i> , 2012, 86, .	4.7	73

#	ARTICLE	IF	CITATIONS
19	Power law running of the effective gluon mass. European Physical Journal A, 2008, 35, 189-205.	2.5	71
20	QCD effective charges from lattice data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	71
21	The gluon mass generation mechanism: A concise primer. Frontiers of Physics, 2016, 11, 1.	5.0	71
22	Gauge-independent approach to resonant transition amplitudes. Physical Review D, 1996, 53, 2128-2149.	4.7	68
23	Novel Type of CPT Violation for Correlated Einstein-Podolsky-Rosen States of Neutral Mesons. Physical Review Letters, 2004, 92, 131601.	7.8	68
24	Gauge-invariant resummation formalism for two-point correlation functions. Physical Review D, 1996, 54, 5315-5335.	4.7	66
25	Effects of divergent ghost loops on the Green's functions of QCD. Physical Review D, 2014, 89, .	4.7	66
26	Light-front quantum chromodynamics. Nuclear Physics, Section B, Proceedings Supplements, 2014, 251-252, 165-174.	0.4	66
27	Effective charge from lattice QCD *. Chinese Physics C, 2020, 44, 083102.	3.7	66
28	New method for determining the quark-gluon vertex. Physical Review D, 2014, 90, .	4.7	64
29	Pinch technique and the Batalin-Vilkovisky formalism. Physical Review D, 2002, 66, .	4.7	62
30	New Schwinger-Dyson equations for non-Abelian gauge theories. Journal of High Energy Physics, 2008, 2008, 063-063.	4.7	62
31	Massive analytic invariant charge in QCD. Physical Review D, 2005, 71, .	4.7	60
32	Gauge-invariant truncation scheme for the Schwinger-Dyson equations of QCD. Physical Review D, 2008, 77, .	4.7	60
33	Charge radius of the neutrino. Physical Review D, 2000, 62, .	4.7	59
34	Coupled fermion gap and vertex equations for chiral-symmetry breakdown in QCD. Physical Review D, 1991, 44, 1285-1297.	4.7	57
35	Gauge-invariant three-boson vertices in the standard model and the static properties of the W. Physical Review D, 1993, 48, 4255-4268.	4.7	57
36	Gluon mass generation without seagull divergences. Physical Review D, 2010, 81, .	4.7	57

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37	Yang-Mills two-point functions in linear covariant gauges. <i>Physical Review D</i> , 2015, 91, .	4.7	57
38	Dynamical equation of the effective gluon mass. <i>Physical Review D</i> , 2011, 84, .	4.7	54
39	Connection between the pinch technique and the background field method. <i>Physical Review D</i> , 1995, 51, 856-861.	4.7	51
40	Ghost propagator and ghost-gluon vertex from Schwinger-Dyson equations. <i>Physical Review D</i> , 2013, 87, .	4.7	51
41	Gluon propagator and three-gluon vertex with dynamical quarks. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	49
42	Gauge-independent transverse and longitudinal self-energies and vertices via the pinch technique. <i>Physical Review D</i> , 1994, 50, 5958-5970.	4.7	48
43	All-order equation of the effective gluon mass. <i>Physical Review D</i> , 2012, 86, .	4.7	48
44	Gauge- and renormalization-group-invariant formulation of the Higgs-boson resonance. <i>Physical Review D</i> , 1998, 58, .	4.7	47
45	Infrared enhanced analytic coupling and chiral symmetry breaking in QCD. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, 997-1008.	3.6	47
46	Massless bound-state excitations and the Schwinger mechanism in QCD. <i>Physical Review D</i> , 2012, 85, .	4.7	46
47	Process-Independent Effective Coupling: From QCD Greenâ€™s Functions to Phenomenology. <i>Few-Body Systems</i> , 2018, 59, 1.	1.5	45
48	Gauge-invariant four-gluon vertex and its Ward identity. <i>Physical Review D</i> , 1993, 47, 4728-4738.	4.7	44
49	Indirect determination of the Kugo-Ojima function from lattice data. <i>Journal of High Energy Physics</i> , 2009, 2009, 066-066.	4.7	44
50	Observability of the Neutrino Charge Radius. <i>Physical Review Letters</i> , 2002, 89, 101802.	7.8	43
51	A novel integral representation for the Adler function. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006, 32, 1025-1034.	3.6	43
52	Quark gap equation with non-Abelian Ball-Chiu vertex. <i>Physical Review D</i> , 2018, 98, .	4.7	43
53	Effective Charge of the Higgs Boson. <i>Physical Review Letters</i> , 1998, 80, 2785-2788.	7.8	41
54	Tau anomalous magnetic moment form factor at super B/flavor factories. <i>Nuclear Physics B</i> , 2008, 790, 160-174.	2.5	40

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55	Renormalization group analysis of the gluon mass equation. <i>Physical Review D</i> , 2014, 89, .	4.7	40
56	The neutrino charge radius as a physical observable. <i>Nuclear Physics B</i> , 2004, 680, 450-478.	2.5	38
57	Nonperturbative study of the four gluon vertex. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	38
58	Magnetic Monopole Search with the Full MoEDAL Trapping Detector in $13\text{ÅTeV}$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions Interpreted in Photon-Fusion and Drell-Yan Production. <i>Physical Review Letters</i> , 2019, 123, 021802.	7.8	38
59	Distribution amplitudes of heavy-light mesons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 790, 257-262.	4.1	37
60	Electroweak effective charges and their relation to physical cross sections. <i>Nuclear Physics B</i> , 1997, 503, 79-116.	2.5	34
61	Fully coupled functional equations for the quark sector of QCD. <i>Physical Review D</i> , 2021, 103, .	4.7	34
62	Evidence of ghost suppression in gluon mass scale dynamics. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	33
63	Gauge-invariant top quark form factors from $e^+e^-$ experiments. <i>Physical Review D</i> , 1994, 50, 3059-3075.	4.7	32
64	Unified description of seagull cancellations and infrared finiteness of gluon propagators. <i>Physical Review D</i> , 2016, 94, .	4.7	31
65	Schwinger mechanism in linear covariant gauges. <i>Physical Review D</i> , 2017, 95, .	4.7	31
66	Non-Abelian Ball-Chiu vertex for arbitrary Euclidean momenta. <i>Physical Review D</i> , 2017, 96, .	4.7	31
67	Pseudoscalar glueball mass: a window on three-gluon interactions. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	31
68	Gluon mass generation in the presence of dynamical quarks. <i>Physical Review D</i> , 2013, 88, .	4.7	29
69	Renormalizable $W$ self-energy in the unitary gauge via the pinch technique. <i>Physical Review D</i> , 1994, 50, 5951-5957.	4.7	28
70	Intrinsic CPT violation and decoherence for entangled neutral mesons. <i>Nuclear Physics B</i> , 2006, 744, 180-206.	2.5	28
71	The Pinch Technique at Two Loops. <i>Physical Review Letters</i> , 2000, 84, 2782-2785.	7.8	27
72	Nonperturbative Ball-Chiu construction of the three-gluon vertex. <i>Physical Review D</i> , 2019, 99, .	4.7	27

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73	Chiral fermions and gauge fixing in five-dimensional theories. <i>Physical Review D</i> , 2001, 63, .	4.7	26
74	Infrared finite ghost propagator in the Feynman gauge. <i>Physical Review D</i> , 2008, 77, .	4.7	26
75	Gluon mass generation in the massless bound-state formalism. <i>Physical Review D</i> , 2013, 87, .	4.7	26
76	Nonperturbative structure of the ghost-gluon kernel. <i>Physical Review D</i> , 2019, 99, .	4.7	26
77	Concerning pion parton distributions. <i>European Physical Journal A</i> , 2022, 58, 1.	2.5	25
78	Gluon mass scale through nonlinearities and vertex interplay. <i>Physical Review D</i> , 2019, 100, .	4.7	24
79	Infrared facets of the three-gluon vertex. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 818, 136352.	4.1	24
80	Exploring smoking-gun signals of the Schwinger mechanism in QCD. <i>Physical Review D</i> , 2022, 105, .	4.7	24
81	Gravitational scattering on a global monopole. <i>Physical Review D</i> , 1991, 44, 1317-1320.	4.7	23
82	Gauge-invariant three-boson vertices and their Ward identities in the standard model. <i>Physical Review D</i> , 1995, 52, 2355-2378.	4.7	23
83	Pinch technique at two loops: The case of massless Yang-Mills theories. <i>Physical Review D</i> , 2000, 62, .	4.7	23
84	Can power corrections be reliably computed in models with extra dimensions?. <i>Physical Review D</i> , 2003, 67, .	4.7	23
85	Coupled dynamics in gluon mass generation and the impact of the three-gluon vertex. <i>Physical Review D</i> , 2018, 97, .	4.7	23
86	Ghost dynamics in the soft gluon limit. <i>Physical Review D</i> , 2021, 104, .	4.7	23
87	Gauge invariant Ansatz for a special three-gluon vertex. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	22
88	New perspective on hybrid mesons. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	22
89	Search for magnetic monopoles produced via the Schwinger mechanism. <i>Nature</i> , 2022, 602, 63-67.	27.8	22
90	Extra dimensions at the one loop level: $Z\gamma^*bb^{\bar{}}\text{and }B\gamma^*B^{\bar{}}$ mixing. <i>Physical Review D</i> , 2000, 63, .	4.7	21

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91	The QCD effective charge to all orders. Nuclear Physics, Section B, Proceedings Supplements, 2003, 121, 281-284.	0.4	21
92	Ghost spectral function from the spectral Dyson-Schwinger equation. Physical Review D, 2021, 104, .	4.7	21
93	First Search for Dyons with the Full MoEDAL Trapping Detector in 13 TeV $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Collisions. Physical Review Letters, 2021, 126, 071801.	7.8	20
94	Nonperturbative gluon and ghost propagators for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Yang-Mills theory. Physical Review D, 2010, 81, .	4.7	19
95	Gluon mass through ghost synergy. Journal of High Energy Physics, 2012, 2012, 1. CPT violation in entangled $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x" \rangle$	4.7	19
96	The effective neutrino charge radius in the presence of fermion masses. Nuclear Physics B, 2005, 716, 352-372.	4.1	17
97	Massive Yang-Mills model and diffractive scattering. Physical Review D, 1999, 59, . $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" \rangle$	2.5	17
98	THE QCD ANALYTIC EFFECTIVE CHARGE AND ITS DEPENDENCE ON THE PION MASS. International Journal of Modern Physics A, 2005, 20, 4622-4627.	4.7	16
99	Alternative large-Nlimit for QCD and its implications for low-energy nuclear phenomena. Physical Review D, 1990, 42, 4238-4247.	4.1	16
100	Displacement operator formalism for renormalization and gauge dependence to all orders. Physical Review D, 2005, 71, .	1.5	15
101	Nonlinear dynamics in three-dimensional QED and nontrivial infrared structure. Physical Review D, 1999, 60, .	4.7	14
102	The QCD analytic running coupling and chiral symmetry breaking. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 47-50.	4.7	14
103	Quark gap equation within the analytic approach to QCD. Nuclear Physics, Section B, Proceedings Supplements, 2007, 164, 300-303.	4.7	14
104	QCD effective charge from the three-gluon vertex of the background-field method. Physical Review D, 2013, 87, .	0.4	13
105	Novel sum rules for the three-point sector of QCD. European Physical Journal C, 2020, 80, 1.	4.7	13
106	Gauge-independent off-shell fermion self-energies at two loops: The cases of QED and QCD. Physical Review D, 2002, 65, .	3.9	12
107	Gauge-independent off-shell fermion self-energies at two loops: The cases of QED and QCD. Physical Review D, 2002, 65, .	4.7	10

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109	Two-loop pinch technique in the electroweak sector. <i>Physical Review D</i> , 2002, 66, .	4.7	10
110	Two-loop electroweak corrections to the $\beta$ -parameter beyond the leading approximation. <i>Physical Review D</i> , 1996, 53, 3942-3961.	4.7	9
111	The effective neutrino charge radius. <i>European Physical Journal C</i> , 2004, 33, s865-s867.	3.9	9
112	CP violation through particle mixing and the H-Alineshape. <i>Journal of High Energy Physics</i> , 2006, 2006, 023-023.	4.7	9
113	Pinch technique for Schwinger-Dyson equations. <i>Journal of High Energy Physics</i> , 2007, 2007, 041-041.	4.7	9
114	Impact of the pion mass on nonpower expansion for QCD observables. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 164, 304-307.	0.4	9
115	On dynamical gluon mass generation. <i>European Physical Journal A</i> , 2007, 31, 742-745.	2.5	9
116	SUPER HEAVY DARK MATTER ANISOTROPIES FROM D-PARTICLES IN THE EARLY UNIVERSE. <i>International Journal of Modern Physics A</i> , 2004, 19, 2355-2383.	1.5	7
117	Gluon dynamics from an ordinary differential equation. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	7
118	Gluon mass and freezing of the QCD coupling. <i>Journal of Physics: Conference Series</i> , 2008, 110, 022040.	0.4	6
119	Unraveling the organization of the QCD tapestry. <i>Journal of Physics: Conference Series</i> , 2015, 631, 012006.	0.4	6
120	Heavy quark decomposition of the S-matrix and its relation to the pinch technique. <i>Physical Review D</i> , 1995, 51, 6364-6368.	4.7	5
121	Probing the $WW\tilde{\nu}^3$ vertex at hadron colliders. <i>Physical Review D</i> , 1999, 60, .	4.7	5
122	Gauge coupling instability and dynamical mass generation in N=1 three-dimensional supersymmetric QED. <i>Physical Review D</i> , 1999, 60, .	4.7	5
123	Effective gluon mass and infrared fixed point in QCD. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	5
124	Singular lensing from the scattering on special space-time defects. <i>European Physical Journal C</i> , 2018, 78, 68.	3.9	5
125	Asymptotic properties of Born-improved amplitudes with gauge bosons in the final state. <i>Physical Review D</i> , 1999, 60, .	4.7	3
126	B physics and extra dimensions. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 120, 210-215.	0.4	3



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127	Power corrections in models with extra dimensions. European Physical Journal C, 2004, 33, s911-s913.	3.9	3
128	Three-gluon Green functions: low-momentum instanton dominance and zero-crossing. EPJ Web of Conferences, 2017, 137, 03018.	0.3	3
129	Nonperturbative results on the quark-gluon vertex. , 2013, , .		3
130	Dual gauge-fixing property of the S-matrix. Physical Review D, 1996, 54, 6957-6962.	4.7	2
131	Set of sum rules for anomalous gauge boson couplings. Physical Review D, 1999, 59, .	4.7	2
132	Scrutinizing the Green's functions of QCD: Lattice meets Schwinger-Dyson. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 44-53.	0.4	2
133	Non-perturbative QCD effective charges. Nuclear Physics, Section B, Proceedings Supplements, 2010, 199, 172-177.	0.4	2
134	Hadron Phenomenology from First-Principle QCD Studies. Few-Body Systems, 2016, 57, 417-423.	1.5	2
135	Mass generation in Yang-Mills theories. EPJ Web of Conferences, 2017, 164, 03005.	0.3	2
136	On the definition and observability of the neutrino charge radius. Nuclear Physics, Section B, Proceedings Supplements, 2003, 114, 197-201.	0.4	1
137	Bounds on models with one latticized extra dimension. Physical Review D, 2003, 68, .	4.7	1
138	BRST-driven cancellations and gauge invariant Green's functions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 133, 281-284.	0.4	1
139	Nonperturbative gluon and ghost propagators in $d=3$ . , 2011, , .		1
140	The Pinch Technique Approach to the Physics of Unstable Particles. , 1999, , .		1
141	Method for determining anomalous gauge boson couplings from $e^+e^-$ experiments. Physical Review D, 2000, 62, .	4.7	0
142	Breit-Wigner formalism for non-Abelian theories. Journal of Physics G: Nuclear and Particle Physics, 2003, 29, 153-159.	3.6	0
143	CP violation and the H-A lineshape. Journal of Physics: Conference Series, 2008, 110, 072031.	0.4	0
144	Analyzing dynamical gluon mass generation. Brazilian Journal of Physics, 2007, 37, .	1.4	0

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145	Gluon propagator with dynamical quarks. , 2014, , .		0
146	Title is missing!. , 2017, , .		0
147	On dynamical gluon mass generation. , 2007, , 439-442.		0