

Christian S Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

5,651
citations

87888

38
h-index

76900

74
g-index

108
all docs

108
docs citations

108
times ranked

4462
citing authors

#	ARTICLE	IF	CITATIONS
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	25.6	790
2	Infrared properties of QCD from Dyson-Schwinger equations. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, R253-R291.	3.6	382
3	On the infrared behavior of Landau gauge Yang-Mills theory. Annals of Physics, 2009, 324, 2408-2437.	2.8	381
4	Baryons as relativistic three-quark bound states. Progress in Particle and Nuclear Physics, 2016, 91, 1-100.	14.4	299
5	QCD at finite temperature and chemical potential from Dyson-Schwinger equations. Progress in Particle and Nuclear Physics, 2019, 105, 1-60.	14.4	189
6	Phase structure of three and four flavor QCD. Physical Review D, 2014, 90, .	4.7	153
7	Analytic Structure of the Landau-Gauge Gluon Propagator. Physical Review Letters, 2012, 109, 252001.	7.8	143
8	The quark-gluon vertex in Landau gauge QCD: Its role in dynamical chiral symmetry breaking and quark confinement. Annals of Physics, 2009, 324, 106-172.	2.8	139
9	Light mesons in QCD and unquenching effects from the 3PI effective action. Physical Review D, 2016, 93, .	4.7	133
10	Propagators and phase structure of N fermions in Landau gauge QCD. Physical Review D, 2016, 93, .	4.1	130
11	Uniqueness of infrared asymptotics in Landau gauge Yang-Mills theory. Physical Review D, 2007, 75, .	4.7	112
12	Chiral and deconfinement phase transitions of two-flavour QCD at finite temperature and chemical potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 438-441.	4.1	108
13	Probing the Gluon Self-Interaction in Light Mesons. Physical Review Letters, 2009, 103, 122001.	7.8	105
14	Deconfinement Phase Transition and the Quark Condensate. Physical Review Letters, 2009, 103, 052003.	7.8	103
15	Chiral and deconfinement transition from correlation functions: SU(2) vs. SU(3). European Physical Journal C, 2010, 68, 165-181.	3.9	98
16	Renormalization flow of Yang-Mills propagators. Journal of High Energy Physics, 2004, 2004, 048-048.	4.7	92
17	Uniqueness of infrared asymptotics in Landau gauge Yang-Mills theory. II.. Physical Review D, 2009, 80, .	4.7	85
18	Chiral and deconfinement transition from Dyson-Schwinger equations. Physical Review D, 2009, 80, .	4.7	81

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19	Tetraquark bound states in a Bethe-Salpeter approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 545-549.	4.1	80
20	Polyakov loop potential at finite density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 273-277.	4.1	76
21	Kaon-box contribution to the anomalous magnetic moment of the muon. Physical Review D, 2020, 101, .	4.7	74
22	Beyond the rainbow: Effects from pion back-coupling. Physical Review D, 2008, 78, .	4.7	73
23	Spectra of heavy mesons in the Bethe-Salpeter approach. European Physical Journal A, 2015, 51, 1.	2.5	69
24	Hadronic unquenching effects in the quark propagator. Physical Review D, 2007, 76, .	4.7	68
25	Baryon effects on the location of QCD's critical end point. Physical Review D, 2016, 93, .	4.7	63
26	Baryon number fluctuations in the QCD phase diagram from Dyson-Schwinger equations. Physical Review D, 2019, 100, .	4.7	63
27	Light baryons and their excitations. Physical Review D, 2016, 94, .	4.7	60
28	The infrared behavior of Landau gauge Yang-Mills theory in d dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 434-440.	4.1	58
29	Dynamical quark mass generation in a strong external magnetic field. Physical Review D, 2014, 89, .	4.7	54
30	Mass spectra and Regge trajectories of light mesons in the Bethe-Salpeter approach. European Physical Journal A, 2014, 50, 1.	2.5	52
31	On Gribov's supercriticality picture of quark confinement. European Physical Journal C, 2009, 60, 47-61.	3.9	51
32	Large volume behaviour of Yang-Mills propagators. Annals of Physics, 2007, 322, 2916-2944.	2.8	48
33	Hadronic light-by-light scattering in the muon $g-2$: A Dyson-Schwinger equation approach. Physical Review D, 2011, 83, .	4.7	47
34	The light scalar mesons as tetraquarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 282-287.	4.1	47
35	Quark spectral properties above T_c from Dyson-Schwinger equations. European Physical Journal C, 2010, 70, 1037-1049.	3.9	46
36	Pion cloud effects on baryon masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 151-157.	4.1	45

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37	Beyond Miransky scaling. Physical Review D, 2011, 84, .	4.7	42
38	Volume behavior of quark condensate, pion mass, and decay constant from Dyson-Schwinger equations. Physical Review D, 2010, 81, .	4.7	38
39	Beyond rainbow-ladder in bound state equations. European Physical Journal A, 2014, 50, 1.	2.5	38
40	Running coupling from the four-gluon vertex in Landau gauge Yang-Mills theory. Physical Review D, 2008, 78, .	4.7	37
41	Landau gauge Yang-Mills propagators in the complex momentum plane. Physical Review D, 2020, 102, .	4.7	37
42	Four-point functions and the permutation group S_4 . Physical Review D, 2015, 92, .	4.7	35
43	Spectrum of scalar and pseudoscalar glueballs from functional methods. European Physical Journal C, 2020, 80, 1077.	3.9	34
44	Glueballs from the Bethe-Salpeter equation. Physical Review D, 2015, 92, .	4.7	33
45	DYNAMICALLY INDUCED SCALAR QUARK CONFINEMENT. Modern Physics Letters A, 2008, 23, 1105-1113.	1.2	31
46	Electromagnetic decays of the neutral pion. Physical Review D, 2017, 96, .	4.7	31
47	Octet and decuplet masses: A covariant three-body Faddeev calculation. Physical Review D, 2014, 90, .	4.7	29
48	Phase structure of QCD for heavy quarks. Physical Review D, 2015, 91, .	4.7	28
49	Role of momentum dependent dressing functions and vector meson dominance in hadronic light-by-light contributions to the muon $g-2$. Physical Review D, 2019, 87, .	4.7	27
50	Nucleon Compton scattering in the Dyson-Schwinger approach. Physical Review D, 2013, 87, .	4.7	27
51	Finite-volume effects and dynamical chiral symmetry breaking in QED3. Physical Review B, 2009, 79, .	3.2	25
52	On the large- Q^2 behavior of the pion transition form factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 425-429.	4.1	25
53	Bayesian analysis of quark spectral properties from the Dyson-Schwinger equation. Physical Review D, 2018, 98, .	4.7	25
54	Infrared behavior and running couplings in interpolating gauges in QCD. Physical Review D, 2005, 72, .	4.7	24

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55	Leading-order calculation of hadronic contributions to the Muon $g-2$ using the Dyson-Schwinger approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 211-217.	4.1	22
56	Single pseudoscalar meson pole and pion box contributions to the anomalous magnetic moment of the muon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134855.	4.1	22
57	Dynamical gap generation in graphene with frequency-dependent renormalization effects. Physical Review B, 2016, 94, .	3.2	21
58	Form factors of the nucleon axial current. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136150.	4.1	21
59	Critical scaling at the QCD N_f chiral phase transition. Physical Review D, 2011, 84, .	4.7	20
60	Electromagnetic transition form factors of baryons in the space-like momentum region. European Physical Journal A, 2018, 54, 1.	2.5	20
61	Four-Quark States from Functional Methods. Few-Body Systems, 2020, 61, 1.	1.5	20
62	Higher spin glueballs from functional methods. European Physical Journal C, 2021, 81, 1.	3.9	20
63	Quarks and light (pseudo)-scalar mesons at finite chemical potential. European Physical Journal A, 2019, 55, 1.	2.5	18
64	$X(3872)$ as a four-quark state in a Dyson-Schwinger/Bethe-Salpeter approach. Physical Review D, 2019, 100, .	4.7	17
65	Unified description of hadron-photon and hadron-meson scattering in the Dyson-Schwinger approach. Physical Review D, 2012, 85, .	4.7	16
66	Hyperon elastic electromagnetic form factors in the space-like momentum region. European Physical Journal A, 2016, 52, 1.	2.5	16
67	Four-quark states with charm quarks in a two-body Bethe-Salpeter approach. European Physical Journal C, 2022, 82, 1.	3.9	15
68	Nucleon axial-vector and pseudoscalar form factors and PCAC relations. Physical Review D, 2022, 105, .	4.7	15
69	Semiperturbative construction for the quark-gluon vertex. Nuclear Physics, Section B, Proceedings Supplements, 2006, 152, 43-46.	0.4	14
70	Locating the critical end point of QCD. Nuclear Physics A, 2014, 931, 774-779.	1.5	14
71	f_0 -meson: Four-quark versus two-quark components and decay width in a Bethe-Salpeter approach. Physical Review D, 2020, 102, .	4.7	14
72	Running coupling in the conformal window of large- N_f QCD. Journal of High Energy Physics, 2014, 2014, 1.	4.7	13

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73	Critical endpoint of QCD in a finite volume. <i>Physical Review D</i> , 2021, 104, .	4.7	13
74	Corrigendum to: “Single pseudoscalar meson pole and pion box contributions to the anomalous magnetic moment of the muon” [Phys. Lett. B 797 (2019) 134855]. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 799, 135029.	4.1	12
75	Hybrid phenomenology in a chiral approach. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	12
76	Locating the critical endpoint of QCD: Mesonic backcoupling effects. <i>Physical Review D</i> , 2021, 104, .	4.7	11
77	Thermodynamics from the quark condensate. <i>Physical Review D</i> , 2021, 103, .	4.7	10
78	Effects of anisotropy in QED3 from Dyson-Schwinger equations in a box. <i>Physical Review B</i> , 2011, 84, .	3.2	9
79	Baryon Structure and Reactions from Dyson-Schwinger Equations. <i>Few-Body Systems</i> , 2019, 60, 1.	1.5	8
80	Critical scaling of finite temperature QED3 in anisotropic space-time. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 532-537.	4.1	7
81	Analytic structure of Landau gauge ghost and gluon propagators. <i>Progress in Particle and Nuclear Physics</i> , 2012, 67, 239-244.	14.4	7
82	Hadronic decays of the (pseudo-)scalar charmonium states η_c and χ_{c0} . <i>European Physical Journal A</i> , 2018, 54, 1.	2.5	7
83	Two-flavor QCD at finite temperature and chemical potential in a functional approach. <i>Progress in Particle and Nuclear Physics</i> , 2012, 67, 200-205.	14.4	6
84	Masses and decay constants of (axial-)vector mesons at finite chemical potential. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	6
85	Bethe-Salpeter equations: mesons beyond the rainbow-ladder truncation. <i>Chinese Physics C</i> , 2010, 34, 1500-1503.	3.7	5
86	The muon $g-2$: Dyson-Schwinger status on hadronic light-by-light scattering. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	5
87	Disentangling different structures in heavy-light four-quark states. <i>Physical Review D</i> , 2020, 102, .	4.7	5
88	Light scalars: Four-quark versus two-quark states in the complex energy plane from Bethe-Salpeter equations. <i>Physical Review D</i> , 2022, 105, .	4.7	5
89	Scaling, decoupling and transversality of the gluon propagator. , 2011, , .		4
90	Studying unquenching effects in QCD with Dyson-Schwinger equations. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 153, 90-97.	0.4	3

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91	Effects of anisotropy in (2+1)-dimensional QED. Progress in Particle and Nuclear Physics, 2012, 67, 245-249.	14.4	3
92	Heavy tetraquark confining potential in Coulomb gauge QCD. Physical Review D, 2014, 89, .	4.7	3
93	Mesons at finite chemical potential and the Silver-Blaze property of QCD. Journal of Physics: Conference Series, 2020, 1667, 012011.	0.4	3
94	Electromagnetic and strong isospin breaking in light meson masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 833, 137291.	4.1	3
95	The phase diagram of $N_f = 2$ and $N_f = 2 + 1$ QCD from quark and gluon propagators. Journal of Physics: Conference Series, 2013, 426, 012021.	0.4	2
96	Regge behaviour within the Bethe-Salpeter approach. Journal of Physics: Conference Series, 2015, 599, 012013.	0.4	2
97	Electromagnetic transition form factors of baryons in a relativistic Faddeev approach. EPJ Web of Conferences, 2018, 181, 01013.	0.3	2
98	Hadronic contribution to the muon $g-2$ from a Dyson-Schwinger perspective. , 2011, , .		1
99	Approaching the QCD phase diagram for $N_f = 2+1$ and $N_f = 2 + 1 + 1$ quark flavors. Journal of Physics: Conference Series, 2015, 599, 012015.	0.4	1
100	Electromagnetic decays of the neutral pion investigated in the Dyson-Schwinger formalism. Journal of Physics: Conference Series, 2018, 1024, 012032.	0.4	1
101	Light tetraquarks in a Dyson-Schwinger/Bethe-Salpeter approach. Journal of Physics: Conference Series, 2018, 1024, 012035.	0.4	1
102	Quenched glueball spectrum from functional equations. EPJ Web of Conferences, 2022, 258, 03001.	0.3	1
103	Beyond Rainbow-Ladder in a covariant three-body Bethe-Salpeter approach: Baryons. EPJ Web of Conferences, 2014, 73, 04019.	0.3	0
104	Baryons with functional methods. EPJ Web of Conferences, 2017, 134, 02007.	0.3	0
105	Dyson-Schwinger approach to baryon number fluctuations. Journal of Physics: Conference Series, 2020, 1667, 012015.	0.4	0