

Francesco Sanfilippo

List of Publications by Year in descending order

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74
papers

2,901
citations

101543

36
h-index

168389

53
g-index

74
all docs

74
docs citations

74
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase diagram of QCD in a magnetic background. Physical Review D, 2022, 105, .	4.7	17
2	Virtual photon emission in leptonic decays of charged pseudoscalar mesons. Physical Review D, 2022, 105, .	4.7	6
3	Lattice QCD study of inclusive semileptonic decays of heavy mesons. Journal of High Energy Physics, 2022, 2022, .	4.7	15
4	Lattice calculation of the pion mass difference $M_{\pi^+} - M_{\pi^0}$ Physical Review D, 2022, 106, .	4.7	3
5	Comparison of lattice $QCD + QED$ predictions for radiative leptonic decays of light mesons with experimental data. Physical Review D, 2021, 103, .	4.7	14
6	Unitarity bounds for semileptonic decays in lattice QCD. Physical Review D, 2021, 104, .	4.7	24
7	Rotated twisted-mass: a convenient regularization scheme for isospin breaking QCD and QED lattice calculations. European Physical Journal A, 2021, 57, 1.	2.5	3
8	First lattice calculation of radiative leptonic decay rates of pseudoscalar mesons. Physical Review D, 2021, 103, .	4.7	30
9	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
10	Ratio of kaon and pion leptonic decay constants with $N_f = 2 + 1$ Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	4.7	12
11	First direct lattice calculation of the chiral perturbation theory low-energy constant \hat{a}_1 . Physical Review D, 2021, 104, .	4.7	5
12	Confining and chiral properties of QCD in extremely strong magnetic fields. Physical Review D, 2021, 104, .	4.7	12
13	Lattice study of the electromagnetic conductivity of the quark-gluon plasma in an external magnetic field. Physical Review D, 2020, 102, .	4.7	33
14	Quark masses and decay constants in $N_f = 2 + 1 + 1$ isoQCD with Wilson clover twisted mass fermions. , 2020, , .		5
15	Light-meson leptonic decay rates in lattice $QCD + QED$ $g_{\mu\nu}^2$ from $N_f = 2 + 1$ lattice $QCD + QED$ $N_f = 2 + 1$ isoQCD. Physical Review D, 2019, 99, .	4.7	57
16	Electromagnetic and strong isospin-breaking corrections to the muon $g_{\mu\nu}^2$ from lattice $QCD + QED$ $N_f = 2 + 1$ isoQCD. Physical Review D, 2019, 99, .	4.7	78
17	Roberge-Weiss endpoint and chiral symmetry restoration in $N_f = 2 + 1$ isoQCD. Physical Review D, 2019, 99, .	4.7	18
18	Dependence of the static quark free energy on $\hat{1}^4 B$ and the crossover temperature of $N_f = 2 + 1$ QCD. Physical Review D, 2019, 100, .	4.7	5

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19	First Lattice Calculation of the QED Corrections to Leptonic Decay Rates. Physical Review Letters, 2018, 120, 072001.	7.8	92
20	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	4.7	18
21	HVP contributions to the muon ($g_{\hat{2}}$) including QED corrections with twisted-mass fermions. EPJ Web of Conferences, 2018, 175, 06006.	0.3	1
22	Topology in full QCD at high temperature: a multicanonical approach. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
23	QCD phase diagram in a magnetic background for different values of the pion mass. Physical Review D, 2018, 98, .	4.7	51
24	Leading isospin-breaking corrections to meson masses on the lattice. EPJ Web of Conferences, 2018, 175, 06002.	0.3	5
25	Light-quark contribution to the leading hadronic vacuum polarization term of the muon $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle g \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\wedge} \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ from twisted-mass fermions. Physical Review D, 2018, 98, .	4.7	37
26	Curvature of the pseudocritical line in QCD: Taylor expansion matches analytic continuation. Physical Review D, 2018, 98, .	4.7	60
27	Effects of a strong magnetic field on the QCD flux tube. Physical Review D, 2018, 98, .	4.7	19
28	Gauge-invariant screening masses and static quark free energies in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ QCD at nonzero baryon density. Physical Review D, 2018, 97, .	4.7	11
29	Finite-volume QED corrections to decay amplitudes in lattice QCD. Physical Review D, 2017, 95, .	4.7	36
30	Screening masses in strong external magnetic fields. Physical Review D, 2017, 95, .	4.7	36
31	Higher order quark number fluctuations via imaginary chemical potentials in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ QCD. Physical Review D, 2017, 95, .	4.7	59
32	Leading isospin-breaking corrections to pion, kaon, and charmed-meson masses with twisted-mass fermions. Physical Review D, 2017, 95, .	4.7	47
33	The decay constants f_D and f_{D_s} in the continuum limit of $N_f = 2 + 1$ domain wall lattice QCD. Journal of High Energy Physics, 2017, 2017, 1.	4.7	30
34	Strange and charm HVP contributions to the muon ($g_{\hat{2}}$) including QED corrections with twisted-mass fermions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
35	Quasi-normal modes from non-commutative matrix dynamics. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
36	Confining properties of QCD in strong magnetic backgrounds. EPJ Web of Conferences, 2017, 137, 03005.	0.3	2

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37	Recent progress on QCD inputs for axion phenomenology. EPJ Web of Conferences, 2017, 137, 08004.	0.3	10
38	Metadynamics surfing on topology barriers: the CP N ¹ case. Journal of High Energy Physics, 2016, 2016, 1.	4.7	24
39	Heavy flavour precision physics from N _f =2+1+1 lattice simulations. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1638-1644.	0.5	1
40	Roberge-Weiss endpoint at the physical point of $N \times N$ Physical Review D, 2016, 93, .	4.7	29
41	Magnetic field effects on the static quark potential at zero and finite temperature. Physical Review D, 2016, 94, .	4.7	54
42	Axion phenomenology and $\hat{\Gamma}$ -dependence from N _f = 2 + 1 lattice QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	112
43	An exploratory study of heavy domain wall fermions on the lattice. Journal of High Energy Physics, 2016, 2016, 1-24.	4.7	6
44	Curvature of the QCD chiral pseudocritical line from analytic continuation. , 2016, , .		0
45	Curvature of the chiral pseudocritical line in QCD: Continuum extrapolated results. Physical Review D, 2015, 92, .	4.7	92
46	Lattice QCD estimate of the $\hat{\Gamma} \cdot c(2S) \hat{\Gamma}^3$ decay rate. Journal of High Energy Physics, 2015, 2015, 1.	4.7	15
47	The kaon semileptonic form factor in N _f = 2 + 1 domain wall lattice QCD with physical light quark masses. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
48	Leptonic decay constants f_K f_D and f_{D^*} in the standard model and beyond from f_{D^*} Magnetic susceptibility and equation of state of χ with physical quark masses. Physical Review D, 2014, 89, .	4.7	79
49	Curvature of the chiral pseudocritical line in QCD. Physical Review D, 2014, 90, .	4.7	43
50	D D^0 D^+ D^{*0} D^{*+} in the standard model and beyond from χ with physical quark masses. Physical Review D, 2014, 89, .	4.7	26
51	Magnetic susceptibility and equation of state of χ with physical quark masses. Physical Review D, 2014, 89, .	4.7	54
52	Anisotropy of the quark-antiquark potential in a magnetic field. Physical Review D, 2014, 89, .	4.7	63
53	Chiral phase transition in two-flavor QCD from an imaginary chemical potential. Physical Review D, 2014, 90, .	4.7	69
54	Up, down, strange and charm quark masses with $N \times N$ mass lattice QCD. Nuclear Physics B, 2014, 887, 19-68.	2.5	133

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55	B-physics from $N_f = 2$ tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
56	$B \rightarrow D_{s1} \ell \bar{\nu}_\ell$ and $B \rightarrow D_{s1} \ell \bar{\nu}_\ell$ near zero recoil in and beyond the Standard Model. European Physical Journal C, 2014, 74, 1.	3.9	38
57	Measurement of the decay constants of $B \rightarrow D_{s1} \ell \bar{\nu}_\ell$ and $B \rightarrow D_{s1} \ell \bar{\nu}_\ell$ near zero recoil in and beyond the Standard Model. Physical Review D, 2014, 89, 1.	2.5	86
58	Semileptonic D-decays with twisted mass QCD on the lattice. , 2014, , .		1
59	Magnetic Susceptibility of Strongly Interacting Matter across the Deconfinement Transition. Physical Review Letters, 2013, 111, 182001.	7.8	51
60	Lattice QCD study of the radiative decays $J/\psi \rightarrow \gamma \ell^+ \ell^-$ and $h_c \rightarrow \gamma \ell^+ \ell^-$. Journal of High Energy Physics, 2013, 2013, 17.	4.7	53
61	On the significance of B-decays to the radially excited D. Nuclear Physics B, 2013, 872, 313-332.	2.5	17
62	Theoretical estimate of the $B \rightarrow D_{s1} \ell \bar{\nu}_\ell$ decay rate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 721, 94-100.	4.7	43
63	Leading isospin breaking effects on the lattice. Physical Review D, 2013, 87, .	4.7	90
64	Radiative decays of charmonia on the lattice. , 2013, , .		1
65	Isospin breaking effects due to the up-down mass difference in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
66	Critical line of two-flavor QCD at finite isospin or baryon densities from imaginary chemical potentials. Physical Review D, 2012, 85, .	4.7	61
67	D-meson decay constants and a check of factorization in non-leptonic B-decays. Journal of High Energy Physics, 2012, 2012, 1.	4.7	48
68	Lattice QCD determination of m_b , f_B and f_{B_s} with twisted mass Wilson fermions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	53
69	Roberge-Weiss endpoint in $N_f = 2$ twisted-mass lattice QCD. Physical Review D, 2011, 83, .	4.7	47
70	The QCD Phase Transition in Strong Magnetic Fields. , 2011, , .		0
71	QCD phase transition in a strong magnetic background. Physical Review D, 2010, 82, .	4.7	207
72	Average up/down, strange, and charm quark masses with $N_f = 2$ twisted-mass lattice QCD. Physical Review D, 2010, 82, .	4.7	56

#	ARTICLE	IF	CITATIONS
73	Thermodynamics of two flavor QCD from imaginary chemical potentials. Physical Review D, 2009, 80, .	4.7	76
74	Order of the Roberge-Weiss endpoint (finite size transition) in QCD. Physical Review D, 2009, 80, .	4.7	81