Francesco Sanfilippo

List of Publications by Year
in descending order

74	2,901	101543	168389
papers	citations	36 h-index	53 g-index

74	74	74	1468
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	QCD phase transition in a strong magnetic background. Physical Review D, 2010, 82, .	4.7	207
2	Up, down, strange and charm quark masses with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:msub></mml:math> mass lattice QCD. Nuclear Physics B, 2014, 887, 19-68.	2.5	133
3	Axion phenomenology and Î¸-dependence from N f = 2 + 1 lattice QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	112
4	Curvature of the chiral pseudocritical line in QCD: Continuum extrapolated results. Physical Review D, 2015, 92, .	4.7	92
5	First Lattice Calculation of the QED Corrections to Leptonic Decay Rates. Physical Review Letters, 2018, 120, 072001.	7.8	92
6	Leading isospin breaking effects on the lattice. Physical Review D, 2013, 87, .	4.7	90
7	Lattice QCD and QCD sum rule determination of the decay constants of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î·</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:msub></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mi>J</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi>ψ</mml:mi></mml:math> and <mml:math xmlns:mml="http://www.	2.5	86
8	Order of the Roberge-Weiss endpoint (finite size transition) in QCD. Physical Review D, 2009, 80, .	4.7	81
9	Leptonic decay constants<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>f</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>f</mml:mi><mml:mi>D</mml:mi></mml:msub></mml:math>,	4.7	79
10	Electromagnetic and strong isospin-breaking corrections to the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml:math> from lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>QCD</mml:mi><mml:mo>+</mml:mo><mml:mtext>QED</mml:mtext></mml:mrow></mml:ma Physical Review D, 2019, 99, .	4.7	78
11	Thermodynamics of two flavor QCD from imaginary chemical potentials. Physical Review D, 2009, 80, .	4.7	76
12	B-physics from Nf = 2 tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
13	Chiral phase transition in two-flavor QCD from an imaginary chemical potential. Physical Review D, 2014, 90, .	4.7	69
14	Anisotropy of the quark-antiquark potential in a magnetic field. Physical Review D, 2014, 89, .	4.7	63
15	Critical line of two-flavor QCD at finite isospin or baryon densities from imaginary chemical potentials. Physical Review D, 2012, 85, .	4.7	61
16	Curvature of the pseudocritical line in QCD: Taylor expansion matches analytic continuation. Physical Review D, 2018, 98, .	4.7	60
17	Higher order quark number fluctuations via imaginary chemical potentials in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn> QCD. Physical Review D, 2017, 95, .	4.7	59
18	Light-meson leptonic decay rates in lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>QCD</mml:mi><mml:mo>+</mml:mo><mml:mi>QED</mml:mi></mml:mrow></mml:math>. Physical Review D, 2019, 100, .	4.7	57

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19	Average up/down, strange, and charm quark masses withNf=2twisted-mass lattice QCD. Physical Review D, 2010, 82, .	4.7	56
20	Magnetic susceptibility and equation of state of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:m with physical quark masses. Physical Review D, 2014, 89, .	4.7	54
21	Magnetic field effects on the static quark potential at zero and finite temperature. Physical Review D, 2016, 94, .	4.7	54
22	Lattice QCD determination of m b , f B and f Bs with twisted mass Wilson fermions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	53
23	Lattice QCD study of the radiative decays J/Ïˆ â†' Î· c Î³ and h c â†' Î· c Î³. Journal of High Energy Physics, 2013, 2013, 1.	4.7	53
24	Isospin breaking effects due to the up-down mass difference in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
25	Magnetic Susceptibility of Strongly Interacting Matter across the Deconfinement Transition. Physical Review Letters, 2013, 111, 182001.	7.8	51
26	QCD phase diagram in a magnetic background for different values of the pion mass. Physical Review D, 2018, 98, .	4.7	51
27	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
28	Roberge-Weiss endpoint in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn>< Physical Review D, 2011, 83, .	4.7	47
29	Leading isospin-breaking corrections to pion, kaon, and charmed-meson masses with twisted-mass fermions. Physical Review D, 2017, 95, .	4.7	47
30	Theoretical estimate of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mo>âŽ</mml:mo></mml:mrow></ decay rate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 721, 94-100.	4.1	43
31	Curvature of the chiral pseudocritical line in QCD. Physical Review D, 2014, 90, .	4.7	43
32	Topology in full QCD at high temperature: a multicanonical approach. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
33	$$B_sightarrow D_sell u _ell $$ B s â†' D s â„" Î½ â„" near zero recoil in and beyond the Standard Model. European Physical Journal C, 2014, 74, 1.	3.9	38
34	Light-quark contribution to the leading hadronic vacuum polarization term of the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>âˆ’</mml:mo><mml:mn>2</mml:mn></mml:math> from twisted-mass fermions. Physical Review D, 2018, 98, .	4.7	37
35	Finite-volume QED corrections to decay amplitudes in lattice QCD. Physical Review D, 2017, 95, .	4.7	36
36	Screening masses in strong external magnetic fields. Physical Review D, 2017, 95, .	4.7	36

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37	Strange and charm HVP contributions to the muon (g â˜’ 2) including QED corrections with twisted-mass fermions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
38	Lattice study of the electromagnetic conductivity of the quark-gluon plasma in an external magnetic field. Physical Review D, 2020, 102, .	4.7	33
39	The decay constants fD and f D s $$ {f}_{D_s} $$ in the continuum limit of Nf = 2 + 1 domain wall lattice QCD. Journal of High Energy Physics, 2017, 2017, 1.	4.7	30
40	First lattice calculation of radiative leptonic decay rates of pseudoscalar mesons. Physical Review D, 2021, 103, .	4.7	30
41	Roberge-Weiss endpoint at the physical point of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review D, 2016, 93, .	4.7	29
42	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup><mml:mrow><mml:mo accent="true"><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mo accent="true" stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math> in the standard model and beyond from<mml:math xmlns:mm. Physical Review D, 2014, 90, .	4.7	26
43	Metadynamics surfing on topology barriers: the CP Nâ˜’1 case. Journal of High Energy Physics, 2016, 2016, 1.	4.7	24
44	Unitarity bounds for semileptonic decays in lattice QCD. Physical Review D, 2021, 104, .	4.7	24
45	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
46	Effects of a strong magnetic field on the QCD flux tube. Physical Review D, 2018, 98, .	4.7	19
47	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
48	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	4.7	18
49	Roberge-Weiss endpoint and chiral symmetry restoration in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow><mml:mrow><mml:mi>f</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> QCD. Physical Review D, 2019, 99, .	4.7	18
50	On the significance of B-decays to the radially excited D. Nuclear Physics B, 2013, 872, 313-332.	2.5	17
51	Phase diagram of QCD in a magnetic background. Physical Review D, 2022, 105, .	4.7	17
52	Lattice QCD estimate of the Î· c (2S) â†’ J/ÎˆÎ³ decay rate. Journal of High Energy Physics, 2015, 2015, 1.	4.7	15
53	Lattice QCD study of inclusive semileptonic decays of heavy mesons. Journal of High Energy Physics, 2022, 2022, .	4.7	15
54	Comparison of lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>QCD</mml:mi><mml:mo>+</mml:mo><mml:mi>QED</mml:mi></mml:mrow></mml:math> predictions for radiative leptonic decays of light mesons with experimental data. Physical Review D, 2021, 103, .	4.7	14

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55	Ratio of kaon and pion leptonic decay constants with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn> Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	4.7	12
56	Confining and chiral properties of QCD in extremely strong magnetic fields. Physical Review D, 2021, 104, .	4.7	12
57	Gauge-invariant screening masses and static quark free energies in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn> QCD at nonzero baryon density. Physical Review D, 2018, 97, .	4.7	11
58	Recent progress on QCD inputs for axion phenomenology. EPJ Web of Conferences, 2017, 137, 08004.	0.3	10
59	An exploratory study of heavy domain wall fermions on the lattice. Journal of High Energy Physics, 2016, 2016, 1-24.	4.7	6
60	Virtual photon emission in leptonic decays of charged pseudoscalar mesons. Physical Review D, 2022, 105, .	4.7	6
61	Leading isospin-breaking corrections to meson masses on the lattice. EPJ Web of Conferences, 2018, 175, 06002.	0.3	5
62	Dependence of the static quark free energy on Î¼B and the crossover temperature of Nf=2+1 QCD. Physical Review D, 2019, 100, .	4.7	5
63	First direct lattice calculation of the chiral perturbation theory low-energy constant â„“7. Physical Review D, 2021, 104, .	4.7	5
64	Quark masses and decay constants in $N_f=2+1+1$ isoQCD with Wilson clover twisted mass fermions. , 2020, , .		5
65	Quasi-normal modes from non-commutative matrix dynamics. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3
66	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
67	Lattice calculation of the pion mass difference <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>M</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow> Physical Review D, 2022, 106, .	4.7	3
68	Confinining properties of QCD in strong magnetic backgrounds. EPJ Web of Conferences, 2017, 137, 03005.	0.3	2
69	Heavy flavour precision physics from Nf=2+1+1 lattice simulations. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1638-1644.	0.5	1
70	HVP contributions to the muon (gâˆ’2) including QED corrections with twisted-mass fermions. EPJ Web of Conferences, 2018, 175, 06006.	0.3	1
71	Radiative decays of charmonia on the lattice. , 2013, , .		1
72	Semileptonic D-decays with twisted mass QCD on the lattice. , 2014, , .		1

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73	The QCD Phase Transition in Strong Magnetic Fields. , 2011, , .		0
74	Curvature of the QCD chiral pseudocritical line from analytic continuation. , 2016, , .		0