

# Silvano Simula

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

4,235  
citations

147566

31  
h-index

106150

65  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5178  
citing authors

#	ARTICLE	IF	CITATIONS
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
2	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
3	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
4	Realistic model of the nucleon spectral function in few- and many-nucleon systems. Physical Review C, 1996, 53, 1689-1710.	1.1	232
5	Up, down, strange and charm quark masses with lattice QCD. Nuclear Physics B, 2014, 887, 19-68.	0.9	133
6	Rare exclusive semileptonic $b \rightarrow s$ transitions in the standard model. Physical Review D, 1998, 57, 6814-6828.	1.6	94
7	First Lattice Calculation of the QED Corrections to Leptonic Decay Rates. Physical Review Letters, 2018, 120, 072001.	2.9	92
8	Leading isospin breaking effects on the lattice. Physical Review D, 2013, 87, .	1.6	90
9	Leptonic decay constants $f_K$ and $f_D$ from lattice QCD. Physical Review D, 2013, 87, .	1.6	79
10	Electromagnetic and strong isospin-breaking corrections to the muon $g-2$ from lattice QCD. Physical Review D, 2019, 99, .	1.6	78
11	The vector form factor at zero momentum transfer on the lattice. Nuclear Physics B, 2005, 705, 339-362.	0.9	77
12	SU(6) breaking effects in the nucleon elastic electromagnetic form factors. Physical Review C, 2000, 62, .	1.1	73
13	B-physics from $N_f = 2$ tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
14	Simulating twisted mass fermions at physical light, strange, and charm quark masses. Physical Review D, 2018, 98, .	1.6	58
15	Light-meson leptonic decay rates in lattice QCD. Physical Review D, 2019, 100, .	1.6	57
16	Electromagnetic form factor of the pion from twisted-mass lattice QCD at physical pion mass. Physical Review D, 2009, 79, .	1.6	52
17	Decay constants of heavy pseudoscalar mesons from QCD sum rules. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 105002.	1.4	52
18	Isospin breaking effects due to the up-down mass difference in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	1.6	51

#	ARTICLE	IF	CITATIONS
19	Probing right-handed currents in transitions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 381-389.	1.5	50
20	D-meson decay constants and a check of factorization in non-leptonic B-decays. Journal of High Energy Physics, 2012, 2012, 1.	1.6	48
21	Challenges in semileptonic $\vec{B}$ decays. European Physical Journal C, 2020, 80, 1.	1.4	48
22	Leading isospin-breaking corrections to pion, kaon, and charmed-meson masses with twisted-mass fermions. Physical Review D, 2017, 95, .	1.6	47
23	Scalar and vector form factors of $D$ $\hat{t}$ $\tilde{\chi}$ $K$ $T_j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 577 Td.		
24	Lattice study of semileptonic form factors with twisted boundary conditions. Physical Review D, 2006, 73, .	1.6	45
25	semileptonic form factors with twisted-mass fermions. Physical Review D, 2016, 93, .	1.6	45
26	A proposal for B-physics on current lattices. Journal of High Energy Physics, 2010, 2010, 1.	1.6	43
27	Matrix elements of the electromagnetic operator between kaon and pion states. Physical Review D, 2011, 84, .	1.6	39
28	Mass of the $b$ quark and $B$ -meson decay constants from light-quark contribution to the leading hadronic vacuum polarization term of the muon $g_{\hat{t}^2}$ from twisted-mass fermions. Physical Review D, 2018, 98, .	1.6	37
29	Light-quark contribution to the leading hadronic vacuum polarization term of the muon $g_{\hat{t}^2}$ from twisted-mass fermions. Physical Review D, 2018, 98, .	1.6	37
30	Finite-volume QED corrections to decay amplitudes in lattice QCD. Physical Review D, 2017, 95, .	1.6	36
31	Strange and charm HVP contributions to the muon $(g_{\hat{t}^2})$ including QED corrections with twisted-mass fermions. Journal of High Energy Physics, 2017, 2017, 1.	1.6	35
32	Neutron structure function and inclusive deep inelastic scattering from 3Hand3Heat large Bjorkenx. Physical Review C, 2002, 66, .	1.1	31
33	Bloom-Gilman duality of inelastic structure functions in nucleon and nuclei. Physical Review C, 1998, 57, 356-366.	1.1	30
34	First lattice calculation of radiative leptonic decay rates of pseudoscalar mesons. Physical Review D, 2021, 103, .	1.6	30
35	First lattice QCD study of the axial and vector form factors with breaking corrections. Nuclear Physics B, 2007, 761, 63-91.	0.9	29
36	Bound-state parameters from dispersive sum rules for vacuum-to-vacuum correlators. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 035003.	1.4	28

#	ARTICLE	IF	CITATIONS
37	<p>masses and decay constants of <math>D_s</math> and <math>D_s^*</math> mesons. Physical Review D, 2017, 96, .</p> <p>and <math>B_s</math> mesons. Physical Review D, 2017, 96, .</p>	1.6	28
38	Extraction of heavy-quark-expansion parameters from unquenched lattice data on pseudoscalar and vector heavy-light meson masses. Physical Review D, 2017, 96, .	1.6	28
39	Extraction of $ V_{cd} $ and $ V_{cb} $ . European Physical Journal C, 2018, 78, 1.	1.4	27
40	Extraction of $ V_{cd} $ and $ V_{cb} $ . European Physical Journal C, 2018, 78, 1.		

#	ARTICLE	IF	CITATIONS
55	K <sup>+</sup> π <sup>0</sup> matrix elements of the chromomagnetic operator on the lattice. Physical Review D, 2018, 97, .	1.6	14
56	Comparison of lattice $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{QCD} \langle \text{mml:mi} \rangle + \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{QED} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ predictions for radiative leptonic decays of light mesons with experimental data. Physical Review D, 2021, 103, .	1.6	14
57	Constituent quarks, chiral symmetry, and chiral point of the constituent quark model. Physical Review D, 2006, 74, .	1.6	13
58	Ratio of kaon and pion leptonic decay constants with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \rangle = \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	1.6	12
59	New extraction of $\hat{\Gamma}_{\pm}(MZ)$ from proton DIS data. Nuclear Physics B, 2003, 675, 289-308.	0.9	7
60	Heavy-quark binding and kinetic energies in heavy-light mesons and the constituent quark model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 273-279.	1.5	6
61	Ratios of the hadronic contributions to the lepton $g_A^2$ from lattice QCD+QED simulations. Physical Review D, 2020, 102, .	1.6	6
62	Virtual photon emission in leptonic decays of charged pseudoscalar mesons. Physical Review D, 2022, 105, .	1.6	6
63	Leading isospin-breaking corrections to meson masses on the lattice. EPJ Web of Conferences, 2018, 175, 06002.	0.1	5
64	First direct lattice calculation of the chiral perturbation theory low-energy constant $\hat{a}_1$ . Physical Review D, 2021, 104, .	1.6	5
65	Quark masses and decay constants in $N_f=2+1+1$ isoQCD with Wilson clover twisted mass fermions. , 2020, , .		5
66	Extraction of multiple exponential signals from lattice correlation functions. Physical Review D, 2019, 100, .	1.6	4
67	Probing the standard model and its extensions in rare exclusive $b \rightarrow s \ell^+ \ell^-$ decays. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 97-99.	0.5	3
68	Local-duality QCD sum rules for strong isospin breaking in the decay constants of heavy-to-light mesons. European Physical Journal C, 2018, 78, 168.	1.4	3
69	Rotated twisted-mass: a convenient regularization scheme for isospin breaking QCD and QED lattice calculations. European Physical Journal A, 2021, 57, 1.	1.0	3
70	Lattice calculation of the pion mass difference $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Physical Review D, 2022, 106, .	1.6	3
71	The vector form factor at zero momentum transfer on the lattice. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 387-389.	0.5	2
72	Experimental moments of the nucleon structure function F2. Nuclear Physics, Section B, Proceedings Supplements, 2007, 174, 23-26.	0.5	2

#	ARTICLE	IF	CITATIONS
73	HQE parameters from unquenched lattice data on pseudoscalar and vector heavy-light meson masses. EPJ Web of Conferences, 2018, 175, 13028.	0.1	2
74	Charmed decays of the B-meson in the quark model. Nuclear Physics, Section B, Proceedings Supplements, 1997, 55, 84-87.	0.5	1
75	HVP contributions to the muon ( $g^2$ ) including QED corrections with twisted-mass fermions. EPJ Web of Conferences, 2018, 175, 06006.	0.1	1
76	Leading and higher twists in proton, neutron and deuteron unpolarized structure functions F2. European Physical Journal A, 2007, 31, 603-605.	1.0	0
77	Heavy-Quark Mass and Heavy-Meson Decay Constants from QCD Sum Rules. , 2011, , .		0
78	Quark-Hadron Duality and Effective Continuum Thresholds in Dispersive Sum Rules. , 2011, , .		0
79	Heavy-Meson Decay Constants: Isospin Breaking from QCD Sum Rules. EPJ Web of Conferences, 2017, 137, 06017.	0.1	0
80	Electromagnetic Corrections to Hadronic Decays from Lattice QCD. Journal of Physics: Conference Series, 2017, 800, 012005.	0.3	0
81	Strong Couplings of Three Mesons with Charm(ing) Involvement. EPJ Web of Conferences, 2017, 137, 13010.	0.1	0
82	Tensor form factor for the $D \rightarrow K$ transitions with Twisted Mass fermions.. EPJ Web of Conferences, 2018, 175, 13022.	0.1	0
83	$D \rightarrow K$ and $D \rightarrow \pi$ semileptonic form factors with $N_f = 2 + 1 + 1$ twisted mass fermions. EPJ Web of Conferences, 2018, 175, 13026.	0.1	0
84	NEUTRON STRUCTURE FUNCTION AND INCLUSIVE DIS FROM 3H AND 3HE TARGETS AT LARGE BJORKEN-X. , 2003, , .		0
85	10.1007/s11450-008-3015-2. , 2010, 71, 545.		0
86	Precise Ratios of Decay Constants of Vector over Pseudoscalar B(s) Mesons. , 2016, , .		0
87	Decay Constants of the Heavy-Light Mesons $D^{(*)}$ and $B^{(*)}$ : Isospin Breaking. , 2018, , .		0
88	Isospin breaking in Heavy-Meson Decay Constants. , 2018, , .		0