Matthew Wingate

List of Publications by Year
in descending order

64 papers	2,958 citations	218592 26 h-index	161767 54 g-index
66 all docs	66 docs citations	66 times ranked	1997 citing authors

#	Article	IF	Citations
1	Form factors for the processes <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow> stretchy="false">â†’</mml:mo><mml:msup><mml:mrow><mml:mi>D</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow> Physical Review D, 2022, 105, .	1.6	4
2	Quark flavor physics and lattice QCD. European Physical Journal A, 2021, 57, 239.	1.0	4
3	Bcâ†’Bs(d) form factors from lattice QCD. Physical Review D, 2020, 102, .	1.6	15
4	Simulating lattice gauge theories within quantum technologies. European Physical Journal D, 2020, 74, 1.	0.6	272
5	Lattice QCD Matrix Elements for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mi>s</mml:mi></mml:mrow> accent="true"><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:mrow><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:mrow><mml:mrow> Physical Review Letters, 2020, 124, 082001.	2.9	9
6	Improving the kinetic couplings in lattice nonrelativistic QCD. Physical Review D, 2019, 99, .	1.6	1
7	Neutral <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math> -meson mixing from full lattice QCD at the physical point. Physical Review D, 2019, 100, .	1.6	79
8	Improving the theoretical prediction for the Bs - BÌ…s width difference: matrix elements of next-to-leading order Î”B = 2 operators. EPJ Web of Conferences, 2018, 175, 13023.	0.1	2
9	Lattice QCD calculation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>B</mml:mi><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mi>s</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msubsup><mml:mi>D</mml:mi><mml:mrow><mml:mo stretchy="false">	1.6	43
10	Numerical study of the unitary Fermi gas across the superfluid transition. Physical Review A, 2016, 93, .	1.0	15
11	Hindered M1 radiative decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Î”</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>2</mml:mn><mml:mi>S</mml:mi><mml:mo>	1.6	16
12	Lattice QCD calculation of form factors describing the rare decays <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>B</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mrow><mml:mi>K</mml:mi></mml:mrow><mml:mrow><mml:mo>*</mml:mo> Physical Review D, 2014, 89, .	1.6	135
13	Calculation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow> stretchy="false">â†’</mml:mo><mml:msup><mml:mrow><mml:mi>K</mml:mi></mml:mrow><mml:mrow><mml:mo>*</mml:mo> Physical Review Letters, 2014, 112, .	2.9	110
14	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î›</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo>â†’</mml:mo><mml:mi>Î›</mml:mi> mathvariant="bold">+</mml:mo></mml:msup><mml:msup><mml:mi>â„“</mml:mi><mml:mo mathvariant="bold">â^’</mml:mo></mml:msup></mml:math>form factors and differential branching fraction from lattice QCD. Physical Review D, 2013, 87, .	1.6	33
15	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Λ</mml:mi><mml:mi>b</mml:mi></mml:msub><mml:mo>â†’</mml:mo><mml:mi>p</mml:mi> mathvariant="bold">â^’</mml:mo></mml:msup><mml:msub><mml:mover accent="true"><mml:mi>Λ½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>â„“</mml:mi></mml:msub></mml:math>form factors from lattice QCD with static <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>b</mml:mi></mml:math> qu. Physical Review D, 2013, 88, .	1.6	12
16	Calculation of the oneWloopHâ†’Î³Î³decay amplitude with a lattice regulator. Physical Review D, 2012, 85, .	1.6	6
17	Thermodynamics of balanced and slightly spin-imbalanced Fermi gases at unitarity. Physical Review A, 2010, 82, .	1.0	55
18	Bottom hadron mass splittings in the static limit from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> flavour lattice QCD. Nuclear Physics B, 2009, 818, 17-27.	0.9	7

#	Article	IF	Citations
19	Neutral<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math>meson mixing in unquenched lattice QCD. Physical Review D, 2009, 80, .	1.6	122
20	Moving nonrelativistic QCD for heavy-to-light form factors on the lattice. Physical Review D, 2009, 80, .	1.6	14
21	Bs0â^'BÂ¯s0mixing parameters from unquenched lattice QCD. Physical Review D, 2007, 76, .	1.6	32
22	Unquenched determination of the kaon parameterBKfrom improved staggered fermions. Physical Review D, 2006, 73, .	1.6	27
23	General coordinate invariance and conformal invariance in nonrelativistic physics: Unitary Fermi gas. Annals of Physics, 2006, 321, 197-224.	1.0	267
24	Dynamical study of BK with improved staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 114-119.	0.5	1
25	Bmeson semileptonic form factors from unquenched lattice QCD. Physical Review D, 2006, 73, .	1.6	145
26	B PHYSICS ON THE LATTICE: PRESENT AND FUTURE. Modern Physics Letters A, 2006, 21, 1167-1182.	0.5	5
27	Lattice QCD and fundamental parameters of the Standard Model. Journal of Physics: Conference Series, 2005, 16, 179-183.	0.3	0
28	Status of Lattice Flavor Physics. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 68-77.	0.5	14
29	B Leptonic Decays and Mixing with 2+1 Flavors of Dynamical Quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 446-448.	0.5	4
30	Exploring Lattice Methods for Cold Fermionic Atoms. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 592-594.	0.5	1
31	Matching of the Heavy-Light Currents with NRQCD Heavy and Improved Naive Light Quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 476-478.	0.5	0
32	BK from improved staggered quarks. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 353-355.	0.5	4
33	Î¥spectrum andmbfrom full lattice QCD. Physical Review D, 2005, 72, .	1.6	178
34	B-Meson Decay Constant from Unquenched Lattice QCD. Physical Review Letters, 2005, 95, 212001.	2.9	159
35	B DECAYS ON THE LATTICE AND RESULTS FOR PHENOMENOLOGY. International Journal of Modern Physics A, 2005, 20, 3651-3653.	0.5	0
36	BsandDsDecay Constants in Three-Flavor Lattice QCD. Physical Review Letters, 2004, 92, 162001.	2.9	66

#	Article	IF	Citations
37	Quenched lattice QCD with domain wall fermions and the chiral limit. Physical Review D, 2004, 69, .	1.6	106
38	High-Precision Lattice QCD Confronts Experiment. Physical Review Letters, 2004, 92, 022001.	2.9	276
39	First determination of the strange and light quark masses from full lattice QCD. Physical Review D, 2004, 70, .	1.6	95
40	One-loop matching of the heavy-lightA0andV0currents with nonrelativistic QCD heavy and improved naive light quarks. Physical Review D, 2004, 69, .	1.6	30
41	Progress calculating decay constants with NRQCD and AsgTad actions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 325-327.	0.5	4
42	Heavy-light meson semileptonic decays with staggered light quarks. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 331-333.	0.5	5
43	The determination ofÎ±s from lattice QCD with 2+1 flavors of dynamical quarks. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 595-597.	0.5	17
44	Bs mesons using staggered light quarks. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 604-606.	0.5	2
45	The Î¨ spectrum from lattice QCD with 2 + 1 flavors of dynamical quarks. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 592-594.	0.5	9
46	Kaon matrix elements andCPviolation from quenched lattice QCD: The 3-flavor case. Physical Review D, 2003, 68, .	1.6	94
47	Heavy-light mesons with staggered light quarks. Physical Review D, 2003, 67, .	1.6	60
48	Nonperturbative renormalization of domain wall fermions: Quark bilinears. Physical Review D, 2002, 66, .	1.6	83
49	Heavy-light physics using NRQCD-staggered actions. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 379-381.	0.5	2
50	Light hadronic physics using domain wall fermions in quenched lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 277-280.	0.5	2
51	LIGHT QUARK MASSES FROM QUENCHED LATTICE QCD SIMULATIONS WITH DOMAIN WALL QUARKS. International Journal of Modern Physics A, 2001, 16, 585-587.	0.5	2
52	Deconfinement transition and string tensions in SU(4) Yang-Mills theory. Physical Review D, 2001, 63, .	1.6	23
53	Quark masses using domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 221-223.	0.5	4
54	Calculation of the strange quark mass using domain wall fermions. Physical Review D, 1999, 60, .	1.6	29

#	Article	IF	Citations
55	Towards the QCD spectrum with dynamical quarks. Nuclear Physics, Section B, Proceedings Supplements, 1998, 60, 297-305.	0.5	9
56	Lattice Determination of Heavy-Light Decay Constants. Physical Review Letters, 1998, 81, 4812-4815.	2.9	51
57	Improving flavor symmetry in the Kogut-Susskind hadron spectrum. Physical Review D, 1997, 55, R1133-R1137.	1.6	98
58	Thermodynamics for two flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 442-445.	0.5	12
59	The continuum limit in the quenched approximation. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 345-349.	0.5	3
60	tfB quenched and unquenched. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 459-462.	0.5	3
61	Two-flavor staggered-fermion thermodynamics at Nt = 12. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 499-502.	0.5	3
62	The Nt = 6 equation of state for two flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 503-510.	0.5	3
63	P-wave meson properties with Wilson quarks. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 373-375.	0.5	0
64	From spectroscopy to the strong coupling constant with heavy Wilson quarks. Physical Review D, 1995, 52, 307-319.	1.6	14