

Stephen R Sharpe

List of Publications by Year in descending order

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Version: 2024-02-01

69

papers

2,767

citations

186265

28

h-index

175258

52

g-index

72

all docs

72

docs citations

72

times ranked

741

citing authors

#	ARTICLE	IF	CITATIONS
1	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>e</mml:mi><mml:mi>e</mml:mi></mml:math> scattering in partially-quenched twisted-mass chiral perturbation theory. Physical Review D, 2022, 105, .	4.7	3
2	Implementing the three-particle quantization condition for $e+e+K+$ and related systems. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
3	Relativistic three-particle quantization condition for nondegenerate scalars. Physical Review D, 2021, 103, .	4.7	22
4	Decay amplitudes to three hadrons from finite-volume matrix elements. Journal of High Energy Physics, 2021, 2021, 1.	4.7	17
5	Three-particle finite-volume formalism for $e+e+K+$ and related systems. Physical Review D, 2021, 104, .	4.7	39
6	Applicability of the two-particle quantization condition to partially-quenched theories. Physical Review D, 2021, 104, .	4.7	3
7	Interactions of two and three mesons including higher partial waves from lattice QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	21
8	Equivalence of relativistic three-particle quantization conditions. Physical Review D, 2020, 102, .	4.7	28
9	Alternative derivation of the relativistic three-particle quantization condition. Physical Review D, 2020, 102, .	4.7	29
10	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\langle e+e+K \rangle = \langle e+e+K \rangle_{3\pi} \langle e+e+K \rangle_{3\pi} Three-Pion Scattering Amplitude from Lattice QCD. Physical Review Letters, 2020, 124, 032001.	7.8	66
11	Generalizing the relativistic quantization condition to include all three-pion isospin channels. Journal of High Energy Physics, 2020, 2020, 1.	4.7	48
12	Implementing the three-particle quantization condition including higher partial waves. Journal of High Energy Physics, 2019, 2019, 1.	4.7	62
13	Three-particle systems with resonant subprocesses in a finite volume. Physical Review D, 2019, 99, .	4.7	63
14	Unitarity of the infinite-volume three-particle scattering amplitude arising from a finite-volume formalism. Physical Review D, 2019, 100, .	4.7	41
15	Lattice QCD and Three-Particle Decays of Resonances. Annual Review of Nuclear and Particle Science, 2019, 69, 65-107.	10.2	92
16	Opportunities for Lattice QCD in quark and lepton flavor physics. European Physical Journal A, 2019, 55, 1.	2.5	24
17	Numerical exploration of three relativistic particles in a finite volume including two-particle resonances and bound states. Journal of High Energy Physics, 2019, 2019, 1.	4.7	56
18	Numerical study of the relativistic three-body quantization condition in the isotropic approximation. Physical Review D, 2018, 98, .	4.7	56

#	ARTICLE	IF	CITATIONS
19	Applying the relativistic quantization condition to a three-particle bound state in a periodic box. Physical Review D, 2017, 95, .	4.7	33
20	Relating the finite-volume spectrum and the two-and-three-particle $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} S \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ matrix for relativistic systems of identical scalar particles. Physical Review D, 2017, 95, .	4.7	120
21	Testing the threshold expansion for three-particle energies at fourth order in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msup} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ theory. Physical Review D, 2017, 96, .	4.7	26
22	Progress in three-particle scattering from LQCD. EPJ Web of Conferences, 2017, 137, 05004.	0.3	3
23	Perturbative results for two- and three-particle threshold energies in finite volume. Physical Review D, 2016, 93, .	4.7	44
24	Kaon BSM $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mi} B \rangle \langle \text{mml:mi} \rangle$ -parameters using improved staggered fermions from $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} N \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} f \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ QCD. Physical Review D, 2016, 93, .	4.7	21
25	Threshold expansion of the three-particle quantization condition. Physical Review D, 2016, 93, .	4.7	64
26	Impact of electromagnetism on phase structure for Wilson and twisted-mass fermions including isospin breaking. Physical Review D, 2015, 92, .	4.7	3
27	Expressing the three-particle finite-volume spectrum in terms of the three-to-three scattering amplitude. Physical Review D, 2015, 92, .	4.7	144
28	Phase structure with nonzero \tilde{Q} CD and twisted mass fermions. Physical Review D, 2015, 92, .	4.7	2
29	Relativistic, model-independent, three-particle quantization condition. Physical Review D, 2014, 90, .	4.7	158
30	Phase diagram of nondegenerate twisted mass fermions. Physical Review D, 2014, 90, .	4.7	5
31	Improved determination of B_K with staggered quarks. Physical Review D, 2014, 89, .	4.7	12
32	Toolkit for staggered $S=2$ matrix elements. Physical Review D, 2014, 90, .	4.7	1
33	Neutral kaon mixing from new physics: Matrix elements in $N_f=2+1$ lattice QCD. Physical Review D, 2013, 88, .	4.7	14
34	Nonperturbative renormalization for improved staggered bilinears. Physical Review D, 2013, 88, .	4.7	9
35	Kaon mixing matrix elements from beyond-the-standard-model operators in staggered chiral perturbation theory. Physical Review D, 2012, 85, .	4.7	12
36	Large- $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mi} N \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ reduction in QCD with two adjoint Dirac fermions. Physical Review D, 2012, 85, .	4.7	14

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37	Multiple-channel generalization of Lellouch-Lüscher formula. Physical Review D, 2012, 86, .	4.7	201
38	KaonBParameter from Improved Staggered Fermions inNf=2+1QCD. Physical Review Letters, 2012, 109, 041601.	7.8	23
39	Constraint on the low energy constants of Wilson chiral perturbation theory. Physical Review D, 2012, 85, .	4.7	16
40	Determining low-energy constants in partially quenched Wilson chiral perturbation theory. Physical Review D, 2012, 85, .	4.7	9
41	One-loop matching of improved four-fermion staggered operators with an improved gluon action. Physical Review D, 2011, 83, .	4.7	9
42	Finite volume effects inBKwith improved staggered fermions. Physical Review D, 2011, 83, .	4.7	12
43	One-loop matching factors for staggered bilinear operators with improved gauge actions. Physical Review D, 2010, 81, .	4.7	6
44	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msub><mml:mi>B</mml:mi><mml:mi>K</mml:mi></mml:msub></mml:math> using HYP-smeared staggered fermions 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></mml:math> QCD. Physical Review D, 2010, 82, .	4.7	30
45	Vector and axial currents in Wilson chiral perturbation theory. Physical Review D, 2009, 80, .	4.7	6
46	â€™t Hooft vertices, partial quenching, and rooted staggered QCD. Physical Review D, 2008, 77, .	4.7	28
47	Reply to â€œComment on â€˜ â€™t Hooft vertices, partial quenching, and rooted staggered QCDâ€™â€• Physical Review D, 2008, 78, .	4.7	10
48	Taste symmetry breaking with hypercubic-smeared staggered fermions. Physical Review D, 2008, 77, .	4.7	8
49	APPLICATIONS OF CHIRAL PERTURBATION THEORY TO LATTICE QCD., 2007, , .		1
50	Discretization errors in the spectrum of the Hermitian Wilson-Dirac operator. Physical Review D, 2006, 74, .	4.7	23
51	Scaling behavior of discretization errors in renormalization and improvement constants. Physical Review D, 2006, 73, .	4.7	8
52	Improved bilinears in lattice QCD with nondegenerate quarks. Physical Review D, 2006, 73, .	4.7	57
53	Twisted mass chiral perturbation theory at next-to-leading order. Physical Review D, 2005, 71, .	4.7	64
54	Observations on discretization errors in twisted-mass lattice QCD. Physical Review D, 2005, 72, .	4.7	24

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55	Testing improved staggered fermions with ms and BK. Physical Review D, 2005, 71, .		4.7	11
56	Effective theory for quenched lattice QCD and the Aoki phase. Physical Review D, 2005, 71, .		4.7	24
57	Finite-volume effects for two-hadron states in moving frames. Nuclear Physics B, 2005, 727, 218-243.		2.5	227
58	Unphysical operators in partially quenched QCD. Physical Review D, 2004, 69, .		4.7	21
59	Phase diagram of twisted mass lattice QCD. Physical Review D, 2004, 70, .		4.7	58
60	One-loop matching coefficients for improved staggered bilinears. Physical Review D, 2002, 66, .		4.7	31
61	PHYSICAL RESULTS FROM PARTIALLY QUENCHED SIMULATIONS. International Journal of Modern Physics A, 2001, 16, 1219-1224.		1.5	17
62	Staggered fermion matrix elements using smeared operators. Physical Review D, 1998, 57, 1654-1665.		4.7	27
63	Matrix elements of four-fermion operators with quenched Wilson fermions. Physical Review D, 1997, 55, 4036-4054.		4.7	88
64	Perturbative corrections for staggered four-fermion operators. Nuclear Physics B, 1994, 417, 307-356.		2.5	45
65	Perturbative corrections for staggered fermion bilinears. Nuclear Physics B, 1993, 395, 701-732.		2.5	49
66	Lattice calculation of $l = 2$ pion scattering length. Nuclear Physics B, 1992, 383, 309-354.		2.5	84
67	A tool kit for staggered fermions. Nuclear Physics B, 1987, 283, 493-550.		2.5	113
68	Weak interaction matrix elements with staggered fermions (I). Theory and a trial run. Nuclear Physics B, 1987, 286, 253-292.		2.5	52
69	Lattice QCD: Going beyond the mass spectrum. Journal of Statistical Physics, 1986, 43, 1129-1145.		1.2	1