

# Stephen Powell

## List of Publications by Year in descending order

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28  
papers

944  
citations

471509

17  
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501196

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g-index

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all docs

28  
docs citations

28  
times ranked

815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quench dynamics across quantum critical points. <i>Physical Review A</i> , 2004, 69, .	2.5	245
2	Chiral Rashba spin textures in ultracold Fermi gases. <i>Physical Review B</i> , 2011, 83, .	3.2	101
3	Quantum Slow Relaxation and Metastability due to Dynamical Constraints. <i>Physical Review Letters</i> , 2018, 121, 040603.	7.8	74
4	Order by disorder in spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 85, .	2.5	72
5	Depletion of the Bose-Einstein condensate in Bose-Fermi mixtures. <i>Physical Review B</i> , 2005, 72, .	3.2	55
6	Interacting Hofstadter Spectrum of Atoms in an Artificial Gauge Field. <i>Physical Review Letters</i> , 2010, 104, 255303.	7.8	39
7	SU(2)-Invariant Continuum Theory for an Unconventional Phase Transition in a Three-Dimensional Classical Dimer Model. <i>Physical Review Letters</i> , 2008, 101, 155702.	7.8	33
8	Emergent SO(5) Symmetry at the Columnar Ordering Transition in the Classical Cubic Dimer Model. <i>Physical Review Letters</i> , 2019, 122, 080601.	7.8	33
9	Scaling dimensions of higher-charge monopoles at deconfined critical points. <i>Physical Review B</i> , 2015, 92, .	3.2	32
10	Bogoliubov theory of interacting bosons on a lattice in a synthetic magnetic field. <i>Physical Review A</i> , 2011, 83, .	2.5	31
11	Classical to quantum mappings for geometrically frustrated systems: Spin-ice in a [100] field. <i>Physical Review B</i> , 2008, 78, .	3.2	29
12	Higgs transitions of spin ice. <i>Physical Review B</i> , 2011, 84, .	3.2	28
13	Eigenstate thermalization hypothesis in quantum dimer models. <i>Physical Review B</i> , 2017, 96, .	3.2	27
14	Classical to quantum mapping for an unconventional phase transition in a three-dimensional classical dimer model. <i>Physical Review B</i> , 2009, 80, .	3.2	24
15	Phases of quantum dimers from ensembles of classical stochastic trajectories. <i>Physical Review B</i> , 2018, 98, .	3.2	19
16	Magnetic phases and transitions of the two-species Bose-Hubbard model. <i>Physical Review A</i> , 2009, 79, .	2.5	18
17	Critical behavior in the cubic dimer model at nonzero monomer density. <i>Physical Review B</i> , 2014, 89, .	3.2	18
18	Confinement of monopoles and scaling theory near unconventional critical points. <i>Physical Review B</i> , 2013, 87, .	3.2	13

#	ARTICLE	IF	CITATIONS
19	Universal Monopole Scaling near Transitions from the Coulomb Phase. Physical Review Letters, 2012, 109, 065701.	7.8	9
20	Interacting double dimer model on the square lattice. Physical Review B, 2020, 102, .	3.2	9
21	Ferromagnetic Coulomb phase in classical spin ice. Physical Review B, 2015, 91, .	3.2	8
22	Emergence of cooperative dynamics in fully packed classical dimers. Physical Review E, 2016, 93, 032129.	2.1	8
23	Spin dynamics across the superfluid-insulator transition of spinful bosons. Physical Review A, 2007, 76, .	2.5	7
24	Excited-state spectra at the superfluid-insulator transition out of paired condensates. Physical Review A, 2007, 75, .	2.5	5
25	Synchronization transition in the double dimer model on the cubic lattice. Physical Review B, 2019, 99, .	3.2	3
26	Topological sectors, dimer correlations, and monomers from the transfer-matrix solution of the dimer model. Physical Review E, 2021, 104, 014145.	2.1	2
27	Mean-field theory for confinement transitions and magnetization plateaux in spin ice. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 124001.	2.1	1
28	Quantum Kasteleyn transition. Physical Review B, 2022, 105, .	3.2	1