## Anatoli Polkovnikov

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5052618/publications.pdf

Version: 2024-02-01

49 papers

5,195 citations

147801 31 h-index 197818 49 g-index

49 all docs

49 docs citations

times ranked

49

3424 citing authors

#	Article	IF	CITATIONS
1	Adiabatic landscape and optimal paths in ergodic systems. Physical Review Research, 2021, 3, .	3.6	12
2	Shortcuts to dynamic polarization. Physical Review B, 2021, 103, .	3.2	15
3	Observing Dynamical Quantum Phase Transitions through Quasilocal String Operators. Physical Review Letters, 2021, 126, 200602.	7.8	16
4	Fermi's golden rule for heating in strongly driven Floquet systems. Physical Review B, 2021, 104, .	3.2	13
5	Dynamical obstruction to localization in a disordered spin chain. Physical Review E, 2021, 104, 054105.	2.1	90
6	Universality in the onset of quantum chaos in many-body systems. Physical Review B, 2021, 104, .	3.2	32
7	Semiclassical dynamics of a disordered two-dimensional Hubbard model with long-range interactions. Physical Review A, 2020, 102, .	2.5	6
8	Adiabatic Eigenstate Deformations as a Sensitive Probe for Quantum Chaos. Physical Review X, 2020, 10,	8.9	60
9	Persistent dark states in anisotropic central spin models. Scientific Reports, 2020, 10, 16080.	3.3	18
10	Quantum diffusion in spin chains with phase space methods. Physical Review E, 2020, 101, 052120.	2.1	8
11	Floquet-engineered quantum state manipulation in a noisy qubit. Physical Review A, 2019, 100, .	2.5	20
12	Floquet-Engineering Counterdiabatic Protocols in Quantum Many-Body Systems. Physical Review Letters, 2019, 123, 090602.	7.8	93
13	Semiclassical echo dynamics in the Sachdev-Ye-Kitaev model. Physical Review B, 2019, 99, .	3.2	28
14	Geometric Speed Limit of Accessible Many-Body State Preparation. Physical Review X, 2019, 9, .	8.9	63
15	Asymptotic Prethermalization in Periodically Driven Classical Spin Chains. Physical Review Letters, 2019, 122, 010602.	7.8	54
16	Reinforcement Learning in Different Phases of Quantum Control. Physical Review X, 2018, 8, .	8.9	192
17	Broken symmetry in a two-qubit quantum control landscape. Physical Review A, 2018, 97, .	2.5	15
18	Replica Resummation of the Baker-Campbell-Hausdorff Series. Physical Review Letters, 2018, 120, 200607.	7.8	30

#	Article	IF	CITATIONS
19	Cluster truncated Wigner approximation in strongly interacting systems. Annals of Physics, 2018, 395, 341-365.	2.8	39
20	Minimizing irreversible losses in quantum systems by local counterdiabatic driving. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3909-E3916.	7.1	151
21	Adiabatic perturbation theory and geometry of periodically-driven systems. Physics Reports, 2017, 688, 1-35.	25.6	82
22	Geometry and non-adiabatic response in quantum and classical systems. Physics Reports, 2017, 697, 1-87.	25.6	178
23	Integrable Floquet dynamics. SciPost Physics, 2017, 2, .	4.9	72
24	Enabling adiabatic passages between disjoint regions in parameter space through topological transitions. Physical Review B, 2016, 94, .	3.2	3
25	From quantum chaos and eigenstate thermalization to statistical mechanics and thermodynamics. Advances in Physics, 2016, 65, 239-362.	14.4	1,385
26	Thermalization in small quantum systems. Science, 2016, 353, 752-753.	12.6	8
27	Slow quenches in a quantum Ising chain: Dynamical phase transitions and topology. Physical Review B, 2016, 93, .	3.2	100
28	Heating and many-body resonances in a periodically driven two-band system. Physical Review B, 2016, 93,	3.2	80
29	Schrieffer-Wolff Transformation for Periodically Driven Systems: Strongly Correlated Systems with Artificial Gauge Fields. Physical Review Letters, 2016, 116, 125301.	7.8	149
30	Universal dynamic scaling in three-dimensional Ising spin glasses. Physical Review E, 2015, 92, 022128.	2.1	20
31	<pre>cmml:math xmins:mml="http://www.w3.org/1998/Math/Math/Math/Mith/Math/Math/Math/Math/Math/Math/Math/Ma</pre>	7 <b>元g</b> (stret	:c <b>a</b> ø="false"
32	Dynamics of Interacting Spins. Physical Review Letters, 2015, 114, 045701.  Universal high-frequency behavior of periodically driven systems: from dynamical stabilization to Floquet engineering. Advances in Physics, 2015, 64, 139-226.	14.4	831
33	Quantum versus Classical Annealing: Insights from Scaling Theory and Results for Spin Glasses on 3-Regular Graphs. Physical Review Letters, 2015, 114, 147203.	7.8	39
34	Dynamical stability of a many-body Kapitza pendulum. Annals of Physics, 2015, 360, 694-710.	2.8	75
35	Measuring a Topological Transition in an Artificial Spin- <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>0 <mml:mn>0 <mml:< td=""><td>. ₹/8mml:ma</td><td>ath&gt;System</td></mml:<></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:mn></mml:math>	. ₹/8mml:ma	ath>System
36	Classifying and measuring geometry of a quantum ground state manifold. Physical Review B, 2013, 88, .	3.2	100

#	Article	IF	CITATIONS
37	Many-body energy localization transition in periodically driven systems. Annals of Physics, 2013, 333, 19-33.	2.8	214
38	Quantum phase slips in one-dimensional superfluids in a periodic potential. Physical Review A, 2012, 85,	2.5	24
39	Superfluid-to-Mott-insulator transition in the one-dimensional Bose-Hubbard model for arbitrary integer filling factors. Physical Review A, 2011, 84, .	2.5	28
40	Prethermalization in quenched spinor condensates. Physical Review A, 2011, 84, .	2.5	72
41	Oscillating fidelity susceptibility near a quantum multicritical point. Physical Review B, 2011, 83, .	3.2	36
42	Universal energy fluctuations in thermally isolated driven systems. Nature Physics, 2011, 7, 913-917.	16.7	52
43	Accurate numerical verification of the instanton method for macroscopic quantum tunneling: Dynamics of phase slips. Physical Review B, 2010, 82, .	3.2	13
44	Superfluid-insulator transition of disordered bosons in one dimension. Physical Review B, 2010, 81, .	3.2	70
45	Breakdown of the adiabatic limit in low-dimensional gapless systems. Nature Physics, 2008, 4, 477-481.	16.7	195
46	Microscopic Expression for Heat in the Adiabatic Basis. Physical Review Letters, 2008, 101, 220402.	7.8	43
47	Linear response theory for a pair of coupled one-dimensional condensates of interacting atoms. Physical Review B, 2007, 75, .	3.2	92
48	Unzipping vortices in type-II superconductors. Physical Review B, 2007, 76, .	3.2	10
49	Full quantum distribution of contrast in interference experiments between interacting one-dimensional Bose liquids. Nature Physics, 2006, 2, 705-709.	16.7	115