

# Marin Bukov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4162061/publications.pdf>

Version: 2024-02-01

24  
papers

2,955  
citations

394421

19  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

2596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal high-frequency behavior of periodically driven systems: from dynamical stabilization to Floquet engineering. <i>Advances in Physics</i> , 2015, 64, 139-226.	14.4	831
2	A high-bias, low-variance introduction to Machine Learning for physicists. <i>Physics Reports</i> , 2019, 810, 1-124.	25.6	607
3	QuSpin: a Python package for dynamics and exact diagonalisation of quantum many body systems part I: spin chains. <i>SciPost Physics</i> , 2017, 2, .	4.9	249
4	Reinforcement Learning in Different Phases of Quantum Control. <i>Physical Review X</i> , 2018, 8, .	8.9	192
5	QuSpin: a Python package for dynamics and exact diagonalisation of quantum many body systems. Part II: bosons, fermions and higher spins. <i>SciPost Physics</i> , 2019, 7, .	4.9	173
6	Schrieffer-Wolff Transformation for Periodically Driven Systems: Strongly Correlated Systems with Artificial Gauge Fields. <i>Physical Review Letters</i> , 2016, 116, 125301.	7.8	149
7	Prethermal Floquet Steady States and Instabilities in the Periodically Driven, Weakly Interacting Bose-Hubbard Model. <i>Physical Review Letters</i> , 2015, 115, 205301.	7.8	112
8	Adiabatic perturbation theory and geometry of periodically-driven systems. <i>Physics Reports</i> , 2017, 688, 1-35.	25.6	82
9	Heating and many-body resonances in a periodically driven two-band system. <i>Physical Review B</i> , 2016, 93, .	3.2	80
10	Geometric Speed Limit of Accessible Many-Body State Preparation. <i>Physical Review X</i> , 2019, 9, .	8.9	63
11	Reinforcement learning for autonomous preparation of Floquet-engineered states: Inverting the quantum Kapitza oscillator. <i>Physical Review B</i> , 2018, 98, .	3.2	56
12	Asymptotic Prethermalization in Periodically Driven Classical Spin Chains. <i>Physical Review Letters</i> , 2019, 122, 010602.	7.8	54
13	Parametric Instability Rates in Periodically Driven Band Systems. <i>Physical Review X</i> , 2017, 7, .	8.9	44
14	Glassy Phase of Optimal Quantum Control. <i>Physical Review Letters</i> , 2019, 122, 020601.	7.8	41
15	Learning the ground state of a non-stoquastic quantum Hamiltonian in a rugged neural network landscape. <i>SciPost Physics</i> , 2021, 10, .	4.9	37
16	Stroboscopic versus nonstroboscopic dynamics in the Floquet realization of the Harper-Hofstadter Hamiltonian. <i>Physical Review A</i> , 2014, 90, .	2.5	33
17	Parametric Heating in a 2D Periodically Driven Bosonic System: Beyond the Weakly Interacting Regime. <i>Physical Review X</i> , 2019, 9, .	8.9	29
18	Reinforcement Learning for Many-Body Ground-State Preparation Inspired by Counterdiabatic Driving. <i>Physical Review X</i> , 2021, 11, .	8.9	29

#	ARTICLE	IF	CITATIONS
19	Parametric Instabilities of Interacting Bosons in Periodically Driven 1D Optical Lattices. Physical Review X, 2020, 10, .	8.9	21
20	Parametric instability in periodically driven Luttinger liquids. Physical Review B, 2012, 86, .	3.2	19
21	Mean-field phase diagram of the Bose-Fermi Hubbard model. Physical Review B, 2014, 89, .	3.2	16
22	Broken symmetry in a two-qubit quantum control landscape. Physical Review A, 2018, 97, .	2.5	15
23	Thermalization and prethermalization in periodically kicked quantum spin chains. Physical Review B, 2021, 103, .	3.2	12
24	Prethermalization and thermalization in periodically driven many-body systems away from the high-frequency limit. Physical Review B, 2021, 103, .	3.2	11