

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 | Thermalization and prethermalization in periodically kicked quantum spin chains. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 12 |
| 2 | Prethermalization and thermalization in periodically driven many-body systems away from the high-frequency limit. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 11 |
| 3 | 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 |
| 4 | Reinforcement Learning for Many-Body Ground-State Preparation Inspired by Counterdiabatic Driving. <i>Physical Review X</i> , 2021, 11, . | 8.9 | 29 |
| 5 | Parametric Instabilities of Interacting Bosons in Periodically Driven 1D Optical Lattices. <i>Physical Review X</i> , 2020, 10, . | 8.9 | 21 |
| 6 | Parametric Heating in a 2D Periodically Driven Bosonic System: Beyond the Weakly Interacting Regime. <i>Physical Review X</i> , 2019, 9, . | 8.9 | 29 |
| 7 | A high-bias, low-variance introduction to Machine Learning for physicists. <i>Physics Reports</i> , 2019, 810, 1-124. | 25.6 | 607 |
| 8 | Geometric Speed Limit of Accessible Many-Body State Preparation. <i>Physical Review X</i> , 2019, 9, . | 8.9 | 63 |
| 9 | Asymptotic Prethermalization in Periodically Driven Classical Spin Chains. <i>Physical Review Letters</i> , 2019, 122, 010602. | 7.8 | 54 |
| 10 | Glassy Phase of Optimal Quantum Control. <i>Physical Review Letters</i> , 2019, 122, 020601. | 7.8 | 41 |
| 11 | 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 |
| 12 | Reinforcement learning for autonomous preparation of Floquet-engineered states: Inverting the quantum Kapitza oscillator. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 56 |
| 13 | Reinforcement Learning in Different Phases of Quantum Control. <i>Physical Review X</i> , 2018, 8, . | 8.9 | 192 |
| 14 | Broken symmetry in a two-qubit quantum control landscape. <i>Physical Review A</i> , 2018, 97, . | 2.5 | 15 |
| 15 | Adiabatic perturbation theory and geometry of periodically-driven systems. <i>Physics Reports</i> , 2017, 688, 1-35. | 25.6 | 82 |
| 16 | Parametric Instability Rates in Periodically Driven Band Systems. <i>Physical Review X</i> , 2017, 7, . | 8.9 | 44 |
| 17 | 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 |
| 18 | Heating and many-body resonances in a periodically driven two-band system. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 80 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Stroboscopic versus nonstroboscopic dynamics in the Floquet realization of the Harper-Hofstadter Hamiltonian. <i>Physical Review A</i> , 2014, 90, . | 2.5 | 33 |
| 23 | Mean-field phase diagram of the Bose-Fermi Hubbard model. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 16 |
| 24 | Parametric instability in periodically driven Luttinger liquids. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 19 |