

Andreas Alvermann

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,277
citations

687363

13
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

1277
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Controlling the direction of topological transport in a non-Hermitian time-reversal symmetric Floquet ladder. <i>APL Photonics</i> , 2021, 6, 010801. | 5.7 | 3 |
| 2 | Immutable quantized transport in Floquet chains. <i>Physical Review A</i> , 2021, 104, . | 2.5 | 0 |
| 3 | Cutting off the non-Hermitian boundary from an anomalous Floquet topological insulator. <i>Europhysics Letters</i> , 2020, 131, 30007. | 2.0 | 4 |
| 4 | Fermionic time-reversal symmetry in a photonic topological insulator. <i>Nature Materials</i> , 2020, 19, 855-860. | 27.5 | 33 |
| 5 | Topological origin of quantized transport in non-Hermitian Floquet chains. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 26 |
| 6 | Real and imaginary edge states in stacked Floquet honeycomb lattices. <i>European Physical Journal B</i> , 2020, 93, 1. | 1.5 | 0 |
| 7 | ESSEX: Equipping Sparse Solvers For Exascale. <i>Lecture Notes in Computational Science and Engineering</i> , 2020, , 143-187. | 0.3 | 1 |
| 8 | Benefits from using mixed precision computations in the ELPA-AEO and ESSEX-II eigensolver projects. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2019, 36, 699-717. | 0.9 | 10 |
| 9 | Non-Hermitian Boundary State Engineering in Anomalous Floquet Topological Insulators. <i>Physical Review Letters</i> , 2019, 123, 190403. | 7.8 | 37 |
| 10 | Universal driving protocol for symmetry-protected Floquet topological phases. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 16 |
| 11 | Exciton mass and exciton spectrum in the cuprous oxide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 044001. | 1.5 | 9 |
| 12 | Topological invariants for Floquet-Bloch systems with chiral, time-reversal, or particle-hole symmetry. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 20 |
| 13 | Dynamic Stark effect, light emission, and entanglement generation in a laser-driven quantum optical system. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 4 |
| 14 | Efficient computation of the W topological invariant and application to Floquet-Bloch systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 295301. | 2.1 | 13 |
| 15 | Improved Coefficients for Polynomial Filtering in ESSEX. <i>Lecture Notes in Computational Science and Engineering</i> , 2017, , 63-79. | 0.3 | 3 |
| 16 | Symmetry-breaking oscillations in membrane optomechanics. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 15 |
| 17 | Optomechanical multistability in the quantum regime. <i>Europhysics Letters</i> , 2016, 113, 64002. | 2.0 | 10 |
| 18 | High-performance implementation of Chebyshev filter diagonalization for interior eigenvalue computations. <i>Journal of Computational Physics</i> , 2016, 325, 226-243. | 3.8 | 28 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Towards an Exascale Enabled Sparse Solver Repository. Lecture Notes in Computational Science and Engineering, 2016, , 295-316. | 0.3 | 3 |
| 20 | Increasing the Performance of the Jacobi–Davidson Method by Blocking. SIAM Journal of Scientific Computing, 2015, 37, C697-C722. | 2.8 | 20 |
| 21 | Route to Chaos in Optomechanics. Physical Review Letters, 2015, 114, 013601. | 7.8 | 104 |
| 22 | Performance Engineering of the Kernel Polynomial Method on Large-Scale CPU-GPU Systems. , 2015, , . | | 11 |
| 23 | Improving robustness of the FEAST algorithm and solving eigenvalue problems from graphene nanoribbons. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 821-822. | 0.2 | 7 |
| 24 | Equilibration and thermalization of the dissipative quantum harmonic oscillator in a nonthermal environment. Physical Review E, 2013, 87, 012127. | 2.1 | 13 |
| 25 | Nonequilibrium quantum fluctuation relations for harmonic systems in nonthermal environments. New Journal of Physics, 2013, 15, 105008. | 2.9 | 6 |
| 26 | Dynamics of the Dicke model close to the classical limit. Physical Review A, 2013, 88, . | 2.5 | 40 |
| 27 | Variational discrete variable representation for excitons on a lattice. Physical Review B, 2011, 84, . | 3.2 | 8 |
| 28 | Non-equilibrium current and electron pumping in nanostructures. Journal of Physics: Conference Series, 2010, 200, 012005. | 0.4 | 1 |
| 29 | Local Distribution Approach. , 2008, , 505-526. | | 7 |
| 30 | The kernel polynomial method. Reviews of Modern Physics, 2006, 78, 275-306. | 45.6 | 756 |
| 31 | Characterisation of Anderson localisation using distributions. Physica B: Condensed Matter, 2005, 359-361, 789-791. | 2.7 | 7 |
| 32 | Local distribution approach to disordered binary alloys. European Physical Journal B, 2005, 48, 295-303. | 1.5 | 24 |
| 33 | Anderson localization in strongly coupled disordered electron–phonon systems. Philosophical Magazine, 2004, 84, 673-704. | 1.6 | 38 |