

Andreas Alvermann

List of Publications by Year in descending order

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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	The kernel polynomial method. <i>Reviews of Modern Physics</i> , 2006, 78, 275-306.	45.6	756
2	Route to Chaos in Optomechanics. <i>Physical Review Letters</i> , 2015, 114, 013601.	7.8	104
3	Dynamics of the Dicke model close to the classical limit. <i>Physical Review A</i> , 2013, 88, .	2.5	40
4	Anderson localization in strongly coupled disordered electron-phonon systems. <i>Philosophical Magazine</i> , 2004, 84, 673-704.	1.6	38
5	Non-Hermitian Boundary State Engineering in Anomalous Floquet Topological Insulators. <i>Physical Review Letters</i> , 2019, 123, 190403.	7.8	37
6	Fermionic time-reversal symmetry in a photonic topological insulator. <i>Nature Materials</i> , 2020, 19, 855-860.	27.5	33
7	High-performance implementation of Chebyshev filter diagonalization for interior eigenvalue computations. <i>Journal of Computational Physics</i> , 2016, 325, 226-243.	3.8	28
8	Topological origin of quantized transport in non-Hermitian Floquet chains. <i>Physical Review Research</i> , 2020, 2, .	3.6	26
9	Local distribution approach to disordered binary alloys. <i>European Physical Journal B</i> , 2005, 48, 295-303.	1.5	24
10	Increasing the Performance of the Jacobi-Davidson Method by Blocking. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, C697-C722.	2.8	20
11	Topological invariants for Floquet-Bloch systems with chiral, time-reversal, or particle-hole symmetry. <i>Physical Review B</i> , 2018, 97, .	3.2	20
12	Universal driving protocol for symmetry-protected Floquet topological phases. <i>Physical Review B</i> , 2019, 99, .	3.2	16
13	Symmetry-breaking oscillations in membrane optomechanics. <i>Physical Review A</i> , 2016, 94, .	2.5	15
14	Equilibration and thermalization of the dissipative quantum harmonic oscillator in a nonthermal environment. <i>Physical Review E</i> , 2013, 87, 012127.	2.1	13
15	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
16	Performance Engineering of the Kernel Polynomial Method on Large-Scale CPU-GPU Systems. , 2015, , .		11
17	Optomechanical multistability in the quantum regime. <i>Europhysics Letters</i> , 2016, 113, 64002.	2.0	10
18	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

#	ARTICLE	IF	CITATIONS
19	Exciton mass and exciton spectrum in the cuprous oxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 044001.	1.5	9
20	Variational discrete variable representation for excitons on a lattice. Physical Review B, 2011, 84, .	3.2	8
21	Characterisation of Anderson localisation using distributions. Physica B: Condensed Matter, 2005, 359-361, 789-791.	2.7	7
22	Local Distribution Approach. , 2008, , 505-526.		7
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	Nonequilibrium quantum fluctuation relations for harmonic systems in nonthermal environments. New Journal of Physics, 2013, 15, 105008.	2.9	6
25	Dynamic Stark effect, light emission, and entanglement generation in a laser-driven quantum optical system. Physical Review A, 2017, 95, .	2.5	4
26	Cutting off the non-Hermitian boundary from an anomalous Floquet topological insulator. Europhysics Letters, 2020, 131, 30007.	2.0	4
27	Towards an Exascale Enabled Sparse Solver Repository. Lecture Notes in Computational Science and Engineering, 2016, , 295-316.	0.3	3
28	Controlling the direction of topological transport in a non-Hermitian time-reversal symmetric Floquet ladder. APL Photonics, 2021, 6, 010801.	5.7	3
29	Improved Coefficients for Polynomial Filtering in ESSEX. Lecture Notes in Computational Science and Engineering, 2017, , 63-79.	0.3	3
30	Non-equilibrium current and electron pumping in nanostructures. Journal of Physics: Conference Series, 2010, 200, 012005.	0.4	1
31	ESSEX: Equipping Sparse Solvers For Exascale. Lecture Notes in Computational Science and Engineering, 2020, , 143-187.	0.3	1
32	Real and imaginary edge states in stacked Floquet honeycomb lattices. European Physical Journal B, 2020, 93, 1.	1.5	0
33	Immutable quantized transport in Floquet chains. Physical Review A, 2021, 104, .	2.5	0