

Johannes Knolle

List of Publications by Year in descending order

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57
papers

4,346
citations

172457

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docs citations

57
times ranked

3076
citing authors

#	ARTICLE	IF	CITATIONS
1	Confinement-induced impurity states in spin chains. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Optical phonons coupled to a Kitaev spin liquid. <i>Physical Review B</i> , 2022, 105, .	3.2	9
3	Enhancing Disorder-Free Localization through Dynamically Emergent Local Symmetries. <i>PRX Quantum</i> , 2022, 3, .	9.2	18
4	Berry curvature-induced local spin polarisation in gated graphene/WTe ₂ heterostructures. <i>Nature Communications</i> , 2022, 13, .	12.8	3
5	Localization persisting under aperiodic driving. <i>Physical Review B</i> , 2022, 105, .	3.2	4
6	Anomalous random multipolar driven insulators. <i>Physical Review B</i> , 2022, 105, .	3.2	3
7	Unveiling the $S=3/2$ Kitaev honeycomb spin liquids. <i>Nature Communications</i> , 2022, 13, .	12.8	15
8	Measurement-induced phase transition in a chaotic classical many-body system. <i>Physical Review B</i> , 2022, 106, .	3.2	14
9	Random Multipolar Driving: Tunably Slow Heating through Spectral Engineering. <i>Physical Review Letters</i> , 2021, 126, 040601.	7.8	30
10	Seasonal epidemic spreading on small-world networks: Biennial outbreaks and classical discrete time crystals. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
11	Bistability and time crystals in long-ranged directed percolation. <i>Nature Communications</i> , 2021, 12, 1061.	12.8	13
12	Anomalous Quantum Oscillations in a Heterostructure of Graphene on a Proximate Quantum Spin Liquid. <i>Physical Review Letters</i> , 2021, 126, 097201.	7.8	18
13	Gapless state of interacting Majorana fermions in a strain-induced Landau level. <i>Physical Review B</i> , 2021, 103, .	3.2	3
14	Higher-order and fractional discrete time crystals in clean long-range interacting systems. <i>Nature Communications</i> , 2021, 12, 2341.	12.8	37
15	Confinement and entanglement dynamics on a digital quantum computer. <i>Scientific Reports</i> , 2021, 11, 11577.	3.3	38
16	Rigorous Bounds on the Heating Rate in Thue-Morse Quasiperiodically and Randomly Driven Quantum Many-Body Systems. <i>Physical Review Letters</i> , 2021, 127, 050602.	7.8	16
17	Flat and correlated plasmon bands in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{graphene} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{heterostructures} \langle \text{mml:mtext} \rangle$. <i>Physical Review B</i> , 2021, 104, .		
18	Variational quantum algorithm with information sharing. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	15

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19	One-dimensional long-range Falikov-Kimball model: Thermal phase transition and disorder-free localization. Physical Review B, 2021, 104, .	3.2	5
20	Classical Prethermal Phases of Matter. Physical Review Letters, 2021, 127, 140602.	7.8	37
21	Classical approaches to prethermal discrete time crystals in one, two, and three dimensions. Physical Review B, 2021, 104, .	3.2	20
22	Simple mitigation of global depolarizing errors in quantum simulations. Physical Review E, 2021, 104, 035309.	2.1	51
23	Orthogonal Quantum Many-Body Scars. Physical Review Letters, 2021, 127, 150601.	7.8	24
24	Disorder-free localization in a simple $U(1)$ lattice gauge theory. Physical Review B, 2020, 102, .	3.2	17
25	Local probes for charge-neutral edge states in two-dimensional quantum magnets. Physical Review B, 2020, 102, .	3.2	39
26	The range of non-Kitaev terms and fractional particles in \hat{I}_{\pm} -RuCl ₃ . Npj Quantum Materials, 2020, 5, .	5.2	38
27	Quantum Many-Body Scars in Optical Lattices. Physical Review Letters, 2020, 124, 160604.	7.8	79
28	Period- n Discrete Time Crystals and Quasicrystals with Ultracold Bosons. Physical Review Letters, 2019, 123, 150601.	7.8	51
29	Orbital magnetic field effects in Mott insulators with strong spin-orbit coupling. Physical Review B, 2019, 100, .	3.2	8
30	Simulating quantum many-body dynamics on a current digital quantum computer. Npj Quantum Information, 2019, 5, .	6.7	173
31	Electronic Properties of \hat{I}_{\pm} -RuCl ₃ in Proximity to Graphene. Physical Review Letters, 2019, 123, 237201.	7.8	48
32	A Field Guide to Spin Liquids. Annual Review of Condensed Matter Physics, 2019, 10, 451-472.	14.5	297
33	Excitations in the field-induced quantum spin liquid state of \hat{I}_{\pm} -RuCl ₃ . Npj Quantum Materials, 2018, 3, .	5.2	254
34	Dynamics of a quantum spin liquid beyond integrability: The Kitaev-Heisenberg- \hat{I} model in an augmented parton mean-field theory. Physical Review B, 2018, 97, .	3.2	36
35	Physics of the Kitaev Model: Fractionalization, Dynamic Correlations, and Material Connections. Annual Review of Condensed Matter Physics, 2018, 9, 17-33.	14.5	272
36	Dynamical localization in $2+1$ dimensional lattice gauge theories. Physical Review B, 2018, 97, .	3.2	60

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37	Neutron scattering in the proximate quantum spin liquid $\hat{I}\pm\text{-RuCl}_3$. Science, 2017, 356, 1055-1059.	12.6	499
38	Majorana Landau-level Raman spectroscopy. Physical Review B, 2017, 95, .	3.2	18
39	Absence of Ergodicity without Quenched Disorder: From Quantum Disentangled Liquids to Many-Body Localization. Physical Review Letters, 2017, 119, 176601.	7.8	86
40	Disorder-Free Localization. Physical Review Letters, 2017, 118, 266601.	7.8	167
41	Fermionic response from fractionalization in an insulating two-dimensional magnet. Nature Physics, 2016, 12, 912-915.	16.7	204
42	Proximate Kitaev quantum spin liquid behaviour in a honeycomb magnet. Nature Materials, 2016, 15, 733-740.	27.5	762
43	Resonant Raman scattering theory for Kitaev models and their Majorana fermion boundary modes. Physical Review B, 2016, 94, .	3.2	25
44	Raman scattering in correlated thin films as a probe of chargeless surface states. Physical Review B, 2016, 94, .	3.2	13
45	Neutron scattering signatures of the 3D hyperhoneycomb Kitaev quantum spin liquid. Physical Review B, 2015, 92, .	3.2	22
46	Theory of Raman response in three-dimensional Kitaev spin liquids: Application to \hat{I}^2 - and \hat{I}^3 -wave symmetry Physical Review B, 2015, 92, .	3.2	54
47	Antiferromagnetism in Iron-Based Superconductors: Selection of Magnetic Order and Quasiparticle Interference. Journal of the Physical Society of Japan, 2014, 83, 061015.	1.6	11
48	Superconductivity from repulsion in LiFeAs: Novel s -wave symmetry and potential time-reversal symmetry breaking. Physical Review B, 2014, 89, .	3.2	56
49	Dynamics of a Two-Dimensional Quantum Spin Liquid: Signatures of Emergent Majorana Fermions and Fluxes. Physical Review Letters, 2014, 112, .	7.8	263
50	Raman Scattering Signatures of Kitaev Spin Liquids in IrO_2 or Li. Physical Review Letters, 2014, 113, 187201.	7.8	141
51	Incommensurate magnetic fluctuations and Fermi surface topology in LiFeAs. Physical Review B, 2012, 86, .	3.2	27
52	Multiorbital spin susceptibility in a magnetically ordered state: Orbital versus excitonic spin density wave scenario. Physical Review B, 2011, 83, .	3.2	32
53	Magnetic resonance from the interplay of frustration and superconductivity. Physical Review B, 2011, 84, .	3.2	18
54	Quasiparticle Interference in the Spin-Density Wave Phase of Iron-Based Superconductors. Physical Review Letters, 2010, 104, 257001.	7.8	43

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55	Pair breaking by nonmagnetic impurities in the noncentrosymmetric superconductor CePt ₃ Si. Physical Review B, 2010, 81, .	3.2	13
56	Quasiparticle interference in iron-based superconductors. Physical Review B, 2010, 82, .	3.2	36
57	Theory of itinerant magnetic excitations in the spin-density-wave phase of iron-based superconductors. Physical Review B, 2010, 81, .	3.2	97