RESEARCH & PUBLICATIONS

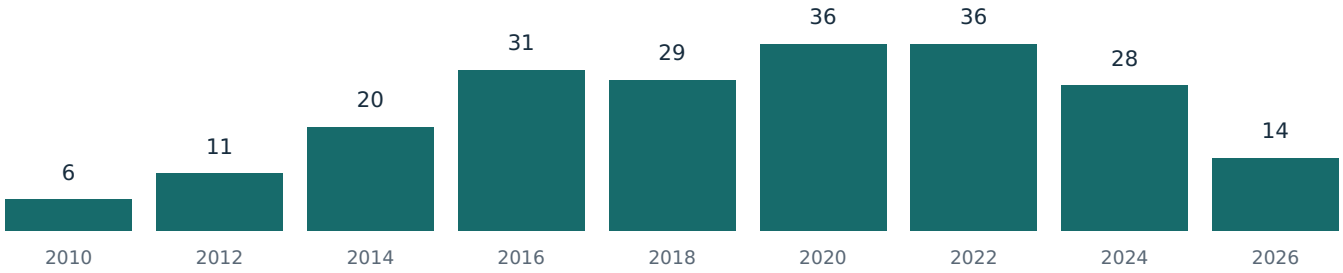
Titus Neupert

A publication record at a glance

211	21,439	68
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

Higher-Order Topological Insulators — 1,561
2018 Science Advances

Fractional Quantum Hall States at Zero Magnetic Field — 1,046
2011 Physical Review Letters

Topolectrical-Circuit Realization of Topological Corner Modes — 1,038
2018 Nature Physics

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Ordered by publication year, newest first

2026

01 **Kagome Metals**
Reviews of Modern Physics
https://exaly.com/article/207782056
24 citations

02 **Full, Three-Quarter, Half, and Quarter Wigner Crystals in Bernal Bilayer Graphene**
Newton · 2, 100362
https://exaly.com/article/208908209
3 citations

03 **Tuning Between a Fractional Topological Insulator and Competing Phases at ν_(T)=2/3**
Physical Review Research · 8, 013159
https://exaly.com/article/209150675
0 citations

04 **Topology of Ultralocalized Insulators and Superconductors**
Physical Review Letters · 136, 066601
https://exaly.com/article/209257229
3 citations

05 **Transport Evidence for Chiral Surface States From Three-Dimensional Landau Bands**
Nature Physics · 22, 1-7
https://exaly.com/article/209398666
2 citations

06 **Regarding the Existence of Abelian Fractional Topological Insulators in Twisted MoTe2 and Related Systems**
Communications Physics · 9, 52
https://exaly.com/article/209405235
8 citations

07 **Sensing the Binding and Unbinding of Anyons at Impurities**
Physical Review Research · 8, 013263
https://exaly.com/article/210041840
3 citations

08 **Proximity Induced Magnetic Anisotropy and Trefoil Fermiology in Monolayer FeCl2/Bi(111).**
Advanced Materials · 38, e21534
https://exaly.com/article/210650188
0 citations

09 **Simulating Fermionic Fractional Chern Insulators With Infinite Projected Entangled-Pair States**
Physical Review Letters · 137, 046502
https://exaly.com/article/214336959
0 citations

10 **Extracting Anyon Statistics From Neural Network Fractional Quantum Hall States**
Journal unavailable · 1, 013018
https://exaly.com/article/216548726
0 citations

Ordered by publication year, newest first

2026 / continued

11 One-Dimensional Conduction Channels in the Correlated Mott NiS_2 Arising From Obstructed Wannier Charges
1 citations
Nature Communications · 17, 9641
https://exaly.com/article/217051702

12 Many-Body Euler Topology
0 citations
Physical Review B
https://exaly.com/article/218424223

13 Interacting Electronic Topology of Nonlocal Crystals
0 citations
Physical Review Research
https://exaly.com/article/218453419

14 Three-Dimensional Foliated Fractional Quantum Hall Phases
0 citations
Physical Review B
https://exaly.com/article/227823947

2025

15 Probing Chiral Symmetry With a Topological Domain Wall Sensor
3 citations
Newton · 1, 100009
https://exaly.com/article/197163219

16 Strain-Induced Enhancement of the Charge Density Wave in the Kagome Metal ScV_6Sn_6
10 citations
Physical Review Letters · 134, 066501
https://exaly.com/article/197670063

17 Multifractal Statistics of Non-Hermitian Skin Effect on the Cayley Tree
3 citations
Physical Review B · 111, 075162
https://exaly.com/article/198169177

18 Unconventional Gapping Behaviour in a Kagome Superconductor
25 citations
Nature Physics · 21, 1-8
https://exaly.com/article/198261272

19 Van Hove Tuning of Fermi Surface Instabilities Through Compensated Metallicity
1 citations
Physical Review B · 111, L121105
https://exaly.com/article/198957258

20 Anomalous Hall Effect Due to Magnetic Fluctuations in a Ferromagnetic Weyl Semimetal
17 citations
Physical Review Letters · 134, 126602
https://exaly.com/article/199213832

Ordered by publication year, newest first

2025 / continued

21 **Topological Excitons in Moiré $MoTe_2/WSe_2$ Heterobilayers** — 15 citations
Physical Review Research · 7, 023047
https://exaly.com/article/200061932

22 **Variational Wave Functions for Fractional Topological Insulators** — 2 citations
Physical Review B · 111, 195143
https://exaly.com/article/201074240

23 **First Sub-MeV Dark Matter Search With the QROCODILE Experiment Using Superconducting Nanowire Single-Photon Detectors** — 16 citations
Physical Review Letters · 135, 081002
https://exaly.com/article/202305987

24 **Atomic Perspective on the Topological Magnetism in Kagome Metal $Co_3Sn_2S_2$** — 4 citations
Quantum Frontiers · 4, 12
https://exaly.com/article/204303201

25 **Floquet Engineered Inhomogeneous Quantum Chaos in Critical Systems** — 8 citations
Physical Review B · 112, 104317
https://exaly.com/article/205125936

26 **How Quantum Fluctuations Freeze a Classical Liquid and Then Melt It Into a Topological One** — 1 citations
Physical Review Research · 7, L042021
https://exaly.com/article/205226347

27 **Many-Body Interference in Kagome Crystals** — 9 citations
Nature · 647, 68-73
https://exaly.com/article/206531289

2024

28 **Correlated Order at the Tipping Point in the Kagome Metal CsV_3Sb_5** — 78 citations
Nature Physics · 20, 579-584
https://exaly.com/article/175781389

29 **Finite-Momentum Cooper Pairing in Proximitized Altermagnets** — 221 citations
Nature Communications · 15, 1-9
https://exaly.com/article/176662634

30 **Single-Parameter Variational Wave Functions for Quantum Hall Bilayers** — 3 citations
Physical Review B · 109, 155138
https://exaly.com/article/178151749

Ordered by publication year, newest first

2024 / continued

31 **Designer-Supraleiter Nehmen Form An**
Physik in Unserer Zeit · 55, 122-127
https://exaly.com/article/184776182
0 citations

32 **Hyperbolic Non-Abelian Semimetal**
Physical Review Letters · 132, 206601
https://exaly.com/article/185743130
35 citations

33 **Boundary Modes of a Charge Density Wave State in a Topological Material**
Nature Physics · 20, 1253-1261
https://exaly.com/article/185904375
13 citations

34 **Charge-4e Superconductivity in a Hubbard Model**
Physical Review B · 109, 214509
https://exaly.com/article/186080164
11 citations

35 **Van Hove Annihilation and Nematic Instability on a Kagome Lattice**
Nature Materials · 23, 1-8
https://exaly.com/article/187361658
27 citations

36 **Local Excitation of Kagome Spin Ice Magnetism Seen by Scanning Tunneling Microscopy**
Physical Review Letters · 133, 046503
https://exaly.com/article/188187713
8 citations

37 **Magnetic Topological Kondo Semimetal Phases of Matter**
Applied Physics Letters
https://exaly.com/article/188272523
1 citations

38 **Non-Hermitian Mott Skin Effect**
Physical Review Letters · 133, 076502
https://exaly.com/article/188306332
58 citations

39 **Topology of SmB_6 Revisited by Means of Topological Quantum Chemistry**
Physical Review Research · 6, 033195
https://exaly.com/article/188508240
4 citations

40 **Interacting Crystalline Topological Insulators in Two-Dimensions With Time-Reversal Symmetry**
Physical Review Research · 6, 033205
https://exaly.com/article/188542240
3 citations

41 **Chiral Kagome Superconductivity Modulations With Residual Fermi Arcs**
Nature · 632, 775-781
https://exaly.com/article/188617779
99 citations

Ordered by publication year, newest first

2024 / continued

42 **Variational Benchmarks for Quantum Many-Body Problems** — 88 citations
Science · 386, 296-301
https://exaly.com/article/193814425

2023

43 **Hyperbolic Matter in Electrical Circuits With Tunable Complex Phases** — 89 citations
Nature Communications · 14, 1-8
https://exaly.com/article/159252818

44 **Pinch-Points to Half-Moons and Up in the Stars: The Kagome Skymap** — 27 citations
Physical Review Research · 5, L012025
https://exaly.com/article/161105199

45 **Emergent Edge Modes in Shifted Quasi-One-Dimensional Charge Density Waves** — 5 citations
Physical Review Letters · 130, 106203
https://exaly.com/article/161365931

46 **Interacting Topological Quantum Chemistry of Mott Atomic Limits** — 24 citations
Physical Review B · 107, 245145
https://exaly.com/article/164197433

47 **Theory of Glide Symmetry Protected Helical Edge States in a WTe_2 Monolayer** — 11 citations
Physical Review B · 107, 195105
https://exaly.com/article/164320557

48 **Single Monkey-Saddle Singularity of a Fermi Surface and Its Instabilities** — 7 citations
Physical Review B · 107, 205129
https://exaly.com/article/164434202

49 **Two-Dimensional Shiba Lattices as a Possible Platform for Crystalline Topological Superconductivity** — 55 citations
Nature Physics · 19, 1848-1854
https://exaly.com/article/165039889

50 **A Hybrid Quantum-Classical Method for Electron-Phonon Systems** — 8 citations
Communications Physics · 6, 1-10
https://exaly.com/article/167330067

51 **Infernal and Exceptional Edge Modes: Non-Hermitian Topology Beyond the Skin Effect** — 15 citations
JPhys Materials · 6, 045006
https://exaly.com/article/169468612

Ordered by publication year, newest first

2023 / continued

52 Enhancement of Second-Order Non-Hermitian Skin Effect by Magnetic Fields
Physical Review Letters · 131, 116601
https://exaly.com/article/169802798
70 citations

53 Phenomenology of Bond and Flux Orders in Kagome Metals
Physical Review B · 108, 125136
https://exaly.com/article/169973643
15 citations

54 Understanding Symmetry Breaking in Twisted Bilayer Graphene From Cluster Constraints
Physical Review Research · 5, 043214
https://exaly.com/article/173272146
3 citations

2022

55 Topological Materials Discovery From Crystal Symmetry
Nature Reviews Materials · 7, 196-216
https://exaly.com/article/118503813
201 citations

56 IrRep: Symmetry Eigenvalues and Irreducible Representations of Ab Initio Band Structures
Computer Physics Communications · 272, 108226
https://exaly.com/article/123239612
86 citations

57 Charge Order and Superconductivity in Kagome Materials
Nature Physics · 18, 137-143
https://exaly.com/article/123367009
380 citations

58 Time-Reversal Symmetry-Breaking Charge Order in a Kagome Superconductor
Nature · 602, 245-250
https://exaly.com/article/125492719
482 citations

59 Simulating a Ring-Like Hubbard System With a Quantum Computer
Physical Review Research · 4, 013165
https://exaly.com/article/134678191
12 citations

60 Van Hove Tuning of AV_3Sb_5 Kagome Metals Under Pressure and Strain
Physical Review B · 105, 165146
https://exaly.com/article/145171819
35 citations

61 Neural Network Evolution Strategy for Solving Quantum Sign Structures
Physical Review Research
https://exaly.com/article/145268266
17 citations

Ordered by publication year, newest first

2022 / continued

62 Low-Temperature Magnetic Crossover in the Topological Kagome Magnet TbMn6Sn6
30 citations
Communications Physics · 5, 1-9
https://exaly.com/article/145329808

63 Construction of Low-Energy Symmetric Hamiltonians and Hubbard Parameters for Twisted Multilayer Systems Using Ab Initio Input
5 citations
Physical Review B · 105, 165153
https://exaly.com/article/145454732

64 Evidence of a Room-Temperature Quantum Spin Hall Edge State in a Higher-Order Topological Insulator
120 citations
Nature Materials · 21, 1111-1115
https://exaly.com/article/149064188

65 Simulating Hyperbolic Space on a Circuit Board
113 citations
Nature Communications · 13, 1-8
https://exaly.com/article/150065112

66 Triple Nodal Points Characterized by Their Nodal-Line Structure in All Magnetic Space Groups
13 citations
Physical Review B
https://exaly.com/article/150106996

67 Universal Higher-Order Bulk-Boundary Correspondence of Triple Nodal Points
19 citations
Physical Review B · 106, 085129
https://exaly.com/article/150107006

68 Delicate Topology Protected by Rotation Symmetry: Crystalline Hopf Insulators and Beyond
39 citations
Physical Review B
https://exaly.com/article/150279106

69 Symmetry Breaking and Spectral Structure of the Interacting Hatano-Nelson Model
94 citations
Physical Review B
https://exaly.com/article/154063816

70 Anomalous Gapped Boundaries Between Surface Topological Orders in Higher-Order Topological Insulators and Superconductors With Inversion Symmetry
1 citations
Physical Review B
https://exaly.com/article/154078174

Ordered by publication year, newest first

2022 / continued

71 **Hamiltonian Reconstruction as Metric for Variational Studies** — 6 citations
SciPost Physics · 13, 063
https://exaly.com/article/155044922

72 **Topological Zero-Dimensional Defect and Flux States in Three-Dimensional Insulators** — 43 citations
Nature Communications · 13, 1-18
https://exaly.com/article/155187362

73 **Switchable Chiral Transport in Charge-Ordered Kagome Metal CsV3Sb5** — 238 citations
Nature · 611, 461-466
https://exaly.com/article/155731543

74 **Hilbert Space Fragmentation in a 2D Quantum Spin System With Subsystem Symmetries** — 36 citations
SciPost Physics · 13, 098
https://exaly.com/article/155737872

75 **Discovery of Charge Order and Corresponding Edge State in Kagome Magnet FeGe** — 108 citations
Physical Review Letters · 129, 166401
https://exaly.com/article/155869368

76 **Thermal and Dissipative Effects on the Heating Transition in a Driven Critical System** — 13 citations
SciPost Physics · 13, 104
https://exaly.com/article/156574435

77 **Topologically Localized Insulators** — 8 citations
Physical Review Letters · 129, 256401
https://exaly.com/article/157990308

78 **Hyperbolic Topological Band Insulators** — 63 citations
Physical Review Letters · 129, 246402
https://exaly.com/article/158088381

2021

79 **Abelian Topological Order of ν=2/5 and 3/7 Fractional Quantum Hall States in Lattice Models** — 23 citations
Physical Review B · 103, 075132
https://exaly.com/article/79019991

80 **From Triple-Point Materials to Multiband Nodal Links** — 36 citations
Physical Review B
https://exaly.com/article/79467534

Ordered by publication year, newest first

2021 / continued

81 **Multiple Quantum Phase Transitions of Different Nature in the Topological Kagome Magnet Co3Sn2−xInxS2**
Npj Quantum Materials · 6, 1-8
https://exaly.com/article/80343882
24 citations

82 **Symmetry Indicators for Inversion-Symmetric Non-Hermitian Topological Band Structures**
Physical Review B
https://exaly.com/article/80364031
29 citations

83 **Multicellularity of Delicate Topological Insulators**
Physical Review Letters · 126, 216404
https://exaly.com/article/80618740
45 citations

84 **Unconventional Chiral Charge Order in Kagome Superconductor KV3Sb5**
Nature Materials · 20, 1353-1357
https://exaly.com/article/81000791
759 citations

85 **N-Band Hopf Insulator**
Physical Review Research · 3, 033045
https://exaly.com/article/81198255
27 citations

86 **Learning-Based Defect Recognition for Quasi-Periodic HRSTEM Images**
Micron · 146, 103069
https://exaly.com/article/81276623
15 citations

87 **Algorithmic Error Mitigation Scheme for Current Quantum Processors**
Quantum - the Open Journal for Quantum Science · 5, 492
https://exaly.com/article/81330461
29 citations

88 **Flat Bands With Fragile Topology Through Superlattice Engineering on Single-Layer Graphene**
Physical Review Research · 3, L032003
https://exaly.com/article/81535805
12 citations

89 **Stability, Phase Transitions, and Numerical Breakdown of Fractional Chern Insulators in Higher Chern Bands of the Hofstadter Model**
Physical Review B
https://exaly.com/article/82212042
40 citations

90 **Exceptional Topological Insulators**
Nature Communications · 12, 1-7
https://exaly.com/article/82327515
97 citations

Ordered by publication year, newest first

2021 / continued

91 Nature of Unconventional Pairing in the Kagome Superconductors AV_3Sb_5 (A=K,Rb,Cs)
271 citations
Physical Review Letters · 127, 177001
https://exaly.com/article/91049458

92 Broken-Symmetry Ground States of the Heisenberg Model on the Pyrochlore Lattice
75 citations
Physical Review X · 11, 041021
https://exaly.com/article/118457087

93 Towards a Topological Quantum Chemistry Description of Correlated Systems: The Case of the Hubbard Diamond Chain
16 citations
Physical Review B
https://exaly.com/article/123121957

94 Analysis of Charge Order in the Kagome Metal AV_3Sb_5 (A=K,Rb,Cs)
293 citations
Physical Review Letters · 127, 217601
https://exaly.com/article/123320986

95 Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet
35 citations
Physical Review Letters · 127, 256403
https://exaly.com/article/125707250

96 Pinwheel Valence Bond Crystal Ground State of the Spin-(1)/(2) Heisenberg Antiferromagnet on the Shuriken Lattice
38 citations
Physical Review B · 104, L220408
https://exaly.com/article/135293304

2020

97 Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet
41 citations
Physical Review Letters · 125, 046401
https://exaly.com/article/75581557

98 Quantum-Limit Chern Topological Magnetism in $TbMn_6Sn_6$
513 citations
Nature · 583, 533-536
https://exaly.com/article/75589426

99 Fermion–Boson Many-Body Interplay in a Frustrated Kagome Paramagnet
55 citations
Nature Communications · 11, 1-7
https://exaly.com/article/75822232

100 Topology and Magnetism in the Kondo Insulator Phase Diagram
8 citations
Physical Review B · 101, 161112
https://exaly.com/article/76597149

Ordered by publication year, newest first

2020 / continued

101 Slave-Boson Analysis of the Two-Dimensional Hubbard Model
Physical Review B · 101, 235137
https://exaly.com/article/76765915
25 citations

102 Pairing Obstructions in Topological Superconductors
Physical Review Letters · 124, 247001
https://exaly.com/article/76765958
25 citations

103 Non-Abelian Chiral Spin Liquid on a Simple Non-Archimedean Lattice
Physical Review B · 101, 041114
https://exaly.com/article/76965668
22 citations

104 Magnetism and Anomalous Transport in the Weyl Semimetal PrAlGe: Possible Route to Axial Gauge Fields
Npj Quantum Materials · 5, 1-8
https://exaly.com/article/77326028
119 citations

105 Unhinging the Surfaces of Higher-Order Topological Insulators and Superconductors
Physical Review Letters · 124, 046801
https://exaly.com/article/77454138
35 citations

106 Tunable Anomalous Hall Conductivity Through Volume-Wise Magnetic Competition in a Topological Kagome Magnet
Nature Communications · 11, 1-9
https://exaly.com/article/77465978
150 citations

107 Unconventional Photocurrents From Surface Fermi Arcs in Topological Chiral Semimetals
Physical Review Letters · 124, 166404
https://exaly.com/article/77574347
64 citations

108 Atomic Limit and Inversion-Symmetry Indicators for Topological Superconductors
Physical Review Research · 2, 013064
https://exaly.com/article/85655093
56 citations

109 Emergent Black Hole Dynamics in Critical Floquet Systems
Physical Review Research · 2, 023085
https://exaly.com/article/85655525
63 citations

110 Reciprocal Skin Effect and Its Realization in a Topolectrical Circuit
Physical Review Research
https://exaly.com/article/85655681
382 citations

Ordered by publication year, newest first

2020 / continued

111 Efficient Learning of a One-Dimensional Density Functional Theory
16 citations
Physical Review Research
https://exaly.com/article/85656186

112 Transport Across Twist Angle Domains in Moiré Graphene
40 citations
Physical Review Research
https://exaly.com/article/85656246

113 Fine Structure of Heating in a Quasiperiodically Driven Critical Quantum System
42 citations
Physical Review Research
https://exaly.com/article/85656248

114 Machine Learning Kompakt
2 citations
Essentials
https://exaly.com/article/119688231

2019

115 Two-Dimensional Frustrated ?1–?2 Model Studied With Neural Network Quantum States
200 citations
Physical Review B
https://exaly.com/article/72723784

116 Nodeless Superconductivity and Its Evolution With Pressure in the Layered Dirac Semimetal 2M-WS2
36 citations
Npj Quantum Materials · 4, 1-8
https://exaly.com/article/72730493

117 Band Structure of Overdoped Cuprate Superconductors: Density Functional Theory Matching Experiments
25 citations
Physical Review B · 99, 224509
https://exaly.com/article/72951302

118 Ground-State Degeneracy of Non-Abelian Topological Phases From Coupled Wires
19 citations
Physical Review B · 99, 245138
https://exaly.com/article/72965031

119 Neural Network Based Classification of Crystal Symmetries From x-Ray Diffraction Patterns
103 citations
Physical Review B · 99, 245120
https://exaly.com/article/73095968

120 Custodial Glide Symmetry of Quantum Spin Hall Edge Modes in Monolayer WTe_2
39 citations
Physical Review B · 99, 121105
https://exaly.com/article/73498192

Ordered by publication year, newest first

2019 / continued

121 Orbitally Selective Breakdown of Fermi Liquid Quasiparticles in Ca_(1.8)Sr_(0.2)RuO4
21 citations
Physical Review B · 99, 121115
https://exaly.com/article/73601119

122 Negative Flat Band Magnetism in a Spin–Orbit-Coupled Correlated Kagome Magnet
408 citations
Nature Physics · 15, 443-448
https://exaly.com/article/73752289

123 Exactly Soluble Model for a Fractionalized Weyl Semimetal
4 citations
Physical Review Research · 1, 033029
https://exaly.com/article/85654783

124 Fractional Corner Charges in Spin-Orbit Coupled Crystals
116 citations
Physical Review Research · 1, 033074
https://exaly.com/article/85654827

125 Topological Many-Body Scar States in Dimensions One, Two, and Three
95 citations
Physical Review Research · 1, 033144
https://exaly.com/article/85654891

2018

126 Direct Observation of Orbital Hybridisation in a Cuprate Superconductor
52 citations
Nature Communications · 9, 1-7
https://exaly.com/article/68775365

127 Competing Orders in the Hofstadter t–J Model
13 citations
Physical Review B · 97, 035154
https://exaly.com/article/69052343

128 Magnetic and Noncentrosymmetric Weyl Fermion Semimetals in the RAlGe Family of Compounds (R=Rare Earth)
201 citations
Physical Review B · 97, 041104
https://exaly.com/article/69216187

129 Spin-Orbital Excitations in Ca_2RuO_4 Revealed by Resonant Inelastic X-Ray Scattering
46 citations
Physical Review X · 8, 011048
https://exaly.com/article/69398232

130 Numerical Investigation of Gapped Edge States in Fractional Quantum Hall-Superconductor Heterostructures
12 citations
Npj Quantum Materials · 3, 1-8
https://exaly.com/article/69431508

Ordered by publication year, newest first

2018 / continued

131 Many-Body Localization and Delocalization in Large Quantum Chains
Physical Review B · 98, 174202
https://exaly.com/article/70358755
171 citations

132 Topology in the Sierpiński-Hofstadter Problem
Physical Review B · 98, 205116
https://exaly.com/article/70358766
75 citations

133 Higher-Order Symmetry-Protected Topological States for Interacting Bosons and Fermions
Physical Review B · 98, 235102
https://exaly.com/article/70596819
98 citations

134 Topological Crystalline Insulators
Springer Series in Solid-state Sciences
https://exaly.com/article/70622568
20 citations

135 Topological Quantum Properties of Chiral Crystals
Nature Materials · 17, 978-985
https://exaly.com/article/70672661
416 citations

136 Symmetries and Many-Body Excitations With Neural-Network Quantum States
Physical Review Letters · 121, 167204
https://exaly.com/article/70771256
213 citations

137 Theory for the Negative Longitudinal Magnetoresistance in the Quantum Limit of Kramers Weyl Semimetals
Journal of Physics Condensed Matter · 30, 505501
https://exaly.com/article/70829561
13 citations

138 Topolectrical-Circuit Realization of Topological Corner Modes
Nature Physics · 14, 925-929
https://exaly.com/article/70966459
1,038 citations

139 Higher-Order Topological Insulators
Science Advances · 4, eaat0346
https://exaly.com/article/71106646
1,561 citations

140 Higher-Order Topology in Bismuth
Nature Physics · 14, 918-924
https://exaly.com/article/71258918
809 citations

Ordered by publication year, newest first

2018 / continued

141 Structure of the Entanglement Entropy of (3+1)-Dimensional Gapped Phases of Matter
Physical Review B · 97, 195118
https://exaly.com/article/71545480
7 citations

142 Measurement of the Entanglement Spectrum of a Symmetry-Protected Topological State Using the IBM Quantum Computer
Physical Review Letters · 121, 086808
https://exaly.com/article/71618231
67 citations

143 Two-Dimensional Type-II Dirac Fermions in Layered Oxides
Nature Communications · 9, 1-7
https://exaly.com/article/71658224
37 citations

2017

144 Hallmarks of Hunds Coupling in the Mott Insulator Ca_2RuO_4
Nature Communications · 8, 1-7
https://exaly.com/article/66312903
90 citations

145 Suppression of Magnetic Excitations Near the Surface of the Topological Kondo Insulator SmB_6
Physical Review B · 95, 020410
https://exaly.com/article/66685294
18 citations

146 Probing Many-Body Localization With Neural Networks
Physical Review B · 95, 245134
https://exaly.com/article/67080606
129 citations

147 Nexus Fermions in Topological Symmorphic Crystalline Metals
Scientific Reports · 7, 1-13
https://exaly.com/article/67209338
124 citations

148 Weyl-Type Topological Phase Transitions in Fractional Quantum Hall Like Systems
Physical Review B · 96, 205117
https://exaly.com/article/67421049
22 citations

149 Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface
Physical Review Letters · 119, 196403
https://exaly.com/article/67450835
20 citations

150 Ultraquantum Magnetoresistance in the Kramers-Weyl Semimetal Candidate $\beta-Ag_2Se$
Physical Review B · 96, 165148
https://exaly.com/article/67471662
37 citations

Ordered by publication year, newest first

2017 / continued

151 Magnetic-Tunnelling-Induced Weyl Node Annihilation in TaP
Nature Physics · 13, 979-986
https://exaly.com/article/67504673
97 citations

152 Type-II Symmetry-Protected Topological Dirac Semimetals
Physical Review Letters · 119, 026404
https://exaly.com/article/67523120
180 citations

153 Topological Quantum Liquids With Long-Range Couplings
Physical Review Letters · 118, 267002
https://exaly.com/article/67619427
55 citations

154 Topological Superconductors and Category Theory
Journal unavailable
https://exaly.com/article/85363887
7 citations

155 Discovery of Lorentz-Violating Type II Weyl Fermions in LaAlGe
Science Advances · 3, e1603266
https://exaly.com/article/85872140
230 citations

2016

156 No-Go Theorem for Boson Condensation in Topologically Ordered Quantum Liquids
New Journal of Physics · 18, 123009
https://exaly.com/article/63326064
13 citations

157 Manipulating Majorana Zero Modes on Atomic Rings With an External Magnetic Field
Nature Communications · 7, 1-6
https://exaly.com/article/63639972
81 citations

158 Topological Nonsymmorphic Metals From Band Inversion
Physical Review X
https://exaly.com/article/63669359
111 citations

159 Robust Spin-Polarized Midgap States at Step Edges of Topological Crystalline Insulators
Science · 354, 1269-1273
https://exaly.com/article/63673322
120 citations

160 Density Wave Instabilities and Surface State Evolution in Interacting Weyl Semimetals
Physical Review B · 94, 241102
https://exaly.com/article/63675857
49 citations

Ordered by publication year, newest first

2016 / continued

161 **Two-Dimensional Chiral Topological Superconductivity in Shiba Lattices**
Nature Communications · 7, 1-7
https://exaly.com/article/63682792
147 citations

162 **Fermionic Symmetry-Protected Topological Phase in a Two-Dimensional Hubbard Model**
Physical Review Letters · 117, 096405
https://exaly.com/article/64491104
7 citations

163 **Shiba Chains of Scalar Impurities on Unconventional Superconductors**
Physical Review B · 93, 094508
https://exaly.com/article/64623991
26 citations

164 **Boson Condensation in Topologically Ordered Quantum Liquids**
Physical Review B · 93, 115103
https://exaly.com/article/64624079
54 citations

165 **Drumhead Surface States and Topological Nodal-Line Fermions in $TlTaSe_2$**
Physical Review B · 93, 121113
https://exaly.com/article/64624186
322 citations

166 **Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs**
Physical Review Letters · 116, 096801
https://exaly.com/article/64628686
120 citations

167 **Wire Constructions of Abelian Topological Phases in Three or More Dimensions**
Physical Review B · 93, 195136
https://exaly.com/article/64659956
42 citations

168 **Non-Abelian Topological Spin Liquids From Arrays of Quantum Wires or Spin Chains**
Physical Review B · 93, 205123
https://exaly.com/article/64659981
47 citations

169 **Topological Dirac Surface States and Superconducting Pairing Correlations in $PbTaSe_2$**
Physical Review B · 93, 245130
https://exaly.com/article/64660075
99 citations

170 **Signatures of the Adler–Bell–Jackiw Chiral Anomaly in a Weyl Fermion Semimetal**
Nature Communications · 7, 1-9
https://exaly.com/article/64772909
696 citations

Ordered by publication year, newest first

2016 / continued

171 Signatures of Topological Quantum Phase Transitions in Driven and Dissipative Qubit Arrays
3 citations
Physical Review B · 94, 035441
https://exaly.com/article/64785516

172 Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy
120 citations
ACS Nano · 10, 1378-85
https://exaly.com/article/65351259

173 Topological Nodal-Line Fermions in Spin-Orbit Metal PbTaSe2
828 citations
Nature Communications · 7, 1-8
https://exaly.com/article/65492433

174 New Type of Weyl Semimetal With Quadratic Double Weyl Fermions
355 citations
Proceedings of the National Academy of Sciences of the United States of America · 113, 1180-1185
https://exaly.com/article/65546384

2015

175 Coupled-Wire Construction of Chiral Spin Liquids
91 citations
Physical Review B · 91, 241106
https://exaly.com/article/60283873

176 Projective Construction of the Z_k Read-Rezayi Fractional Quantum Hall States and Their Excitations on the Torus Geometry
19 citations
Physical Review B · 92, 115128
https://exaly.com/article/60284672

177 Occupation of Topological Floquet Bands in Open Systems
99 citations
Physical Review B · 91, 235133
https://exaly.com/article/60296898

178 Experimental Discovery of a Topological Weyl Semimetal State in TaP
413 citations
Science Advances · 1, e1501092
https://exaly.com/article/61412269

179 Interacting Surface States of Three-Dimensional Topological Insulators
22 citations
Physical Review Letters · 115, 017001
https://exaly.com/article/61979379

180 Discovery of a Weyl Fermion State With Fermi Arcs in Niobium Arsenide
902 citations
Nature Physics · 11, 748-754
https://exaly.com/article/62614455

Ordered by publication year, newest first

2015 / continued

181 Fractional (Chern and Topological) Insulators
87 citations
Physica Scripta · 2015, 014005
https://exaly.com/article/62620112

2014

182 Topological BF Theory of the Quantum Hydrodynamics of Incompressible Polar Fluids
10 citations
Physical Review B · 90, 235118
https://exaly.com/article/58064236

183 Single-Mode Approximation for Fractional Chern Insulators and the Fractional Quantum Hall Effect on the Torus
42 citations
Physical Review B · 90, 045114
https://exaly.com/article/58163752

184 Reply to “Comment on ‘Elementary Formula for the Hall Conductivity of Interacting Systems' ”
0 citations
Physical Review B · 89, 127102
https://exaly.com/article/58171956

185 Accessing Topological Order in Fractionalized Liquids With Gapped Edges
9 citations
Physical Review B · 90, 205115
https://exaly.com/article/58260260

186 Low-Temperature Magnetic Fluctuations in the Kondo Insulator SmB6
29 citations
Physical Review B
https://exaly.com/article/58267325

187 Multigap Superconductivity in Locally Noncentrosymmetric SrPtAs: An 75As Nuclear Quadrupole Resonance Investigation
18 citations
Physical Review B
https://exaly.com/article/58330211

188 Fractional Chern Insulators With Strong Interactions That Far Exceed Band Gaps
49 citations
Physical Review Letters · 112, 126806
https://exaly.com/article/58334574

189 Möbius Molecules and Fragile Mott Insulators
6 citations
Physical Review B · 90, 245142
https://exaly.com/article/58368022

190 Topological Gaps Without Masses in Driven Graphene-Like Systems
19 citations
Physical Review B
https://exaly.com/article/58807169

Ordered by publication year, newest first

2014 / continued

191 **Chiral d-Wave Superconductivity in SrPtAs**
Physical Review B · 89, 020509
https://exaly.com/article/58826443
160 citations

192 **Floquet Fractional Chern Insulators**
Physical Review Letters · 112, 156801
https://exaly.com/article/58896259
247 citations

193 **Wire Deconstructionism of Two-Dimensional Topological Phases**
Physical Review B · 90, 205101
https://exaly.com/article/59025966
122 citations

194 **Ginzburg–Landau Description of Twin Boundaries in Noncentrosymmetric Superconductors**
Journal of the Physical Society of Japan · 83, 044712
https://exaly.com/article/59261493
8 citations

2013

195 **Spin Currents and Spontaneous Magnetization at Twin Boundaries of Noncentrosymmetric Superconductors**
Physical Review B
https://exaly.com/article/54839371
22 citations

196 **Evidence for Superconductivity With Broken Time-Reversal Symmetry in Locally Noncentrosymmetric SrPtAs**
Physical Review B · 87, 180503
https://exaly.com/article/55878597
187 citations

197 **Relating the Entanglement Spectrum of Noninteracting Band Insulators to Their Quantum Geometry and Topology**
Physical Review B · 88, 115114
https://exaly.com/article/56623536
29 citations

198 **Measuring the Quantum Geometry of Bloch Bands With Current Noise**
Physical Review B
https://exaly.com/article/56658037
111 citations

199 **Interaction-Driven Phases in the Half-Filled Spinless Honeycomb Lattice From Exact Diagonalization**
Physical Review B · 88, 245123
https://exaly.com/article/56663320
66 citations

Ordered by publication year, newest first

2013 / continued

200 No Title — 0 citations
Journal unavailable
https://exaly.com/article/182064218

2012

201 Topological Hubbard Model and Its High-Temperature Quantum Hall Effect — 36 citations
Physical Review Letters · 108, 046806
https://exaly.com/article/52537102

202 Enhancing the Stability of a Fractional Chern Insulator Against Competing Phases — 65 citations
Physical Review B · 86, 205125
https://exaly.com/article/52546320

203 Disentanglement of Surface and Bulk Rashba Spin Splittings in Noncentrosymmetric BiTeI — 148 citations
Physical Review Letters · 109, 116403
https://exaly.com/article/52547168

204 Elementary Formula for the Hall Conductivity of Interacting Systems — 15 citations
Physical Review B
https://exaly.com/article/52568226

205 Noncommutative Geometry for Three-Dimensional Topological Insulators — 60 citations
Physical Review B · 86, 035125
https://exaly.com/article/53483431

2011

206 Coexistence of Ferromagnetism and Superconductivity in Noncentrosymmetric Materials With Cubic Symmetry — 8 citations
Journal of the Physical Society of Japan · 80, 114712
https://exaly.com/article/50862760

207 Fractional Topological Liquids With Time-Reversal Symmetry and Their Lattice Realization — 169 citations
Physical Review B · 84, 165107
https://exaly.com/article/51773144

208 Time-Reversal Symmetric Hierarchy of Fractional Incompressible Liquids — 56 citations
Physical Review B · 84, 165138
https://exaly.com/article/51773551

Ordered by publication year, newest first

2011 / continued

209 **Fractional Quantum Hall States at Zero Magnetic Field**

Physical Review Letters · 106, 236804

https://exaly.com/article/51777129

1,046 citations

2010

210 **Superconductivity on the Surface of Topological Insulators and in Two-Dimensional Noncentrosymmetric Materials**

Physical Review B

https://exaly.com/article/48939539

60 citations

211 **Chain of Majorana States From Superconducting Dirac Fermions at a Magnetic Domain Wall**

Physical Review Letters · 105, 206404

https://exaly.com/article/48985170

25 citations

End of list · 211 articles. Citation counts use Exaly’s peer-reviewed cohort.