

Yasuhiro Hatsugai

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215
papers

6,621
citations

40
h-index

75
g-index

239
ext. papers

7,884
ext. citations

2.9
avg, IF

6.51
L-index

#	Paper	IF	Citations
215	Chern number and edge states in the integer quantum Hall effect. <i>Physical Review Letters</i> , 1993 , 71, 3697-3700	7.4	3700
214	Chern Numbers in Discretized Brillouin Zone: Efficient Method of Computing (Spin) Hall Conductances. <i>Journal of the Physical Society of Japan</i> , 2005 , 74, 1674-1677	1.5	630
213	Topological origin of zero-energy edge states in particle-hole symmetric systems. <i>Physical Review Letters</i> , 2002 , 89, 077002	7.4	454
212	Edge states in the integer quantum Hall effect and the Riemann surface of the Bloch function. <i>Physical Review B</i> , 1993 , 48, 11851-11862	3.3	256
211	Numerical Studies on the Hubbard Model and the J-Model in One- and Two-Dimensions. <i>Journal of the Physical Society of Japan</i> , 1989 , 58, 3752-3780	1.5	207
210	Quantum Spin Hall Effect in Three Dimensional Materials: Lattice Computation of Z ₂ Topological Invariants and Its Application to Bi and Sb. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 053702	1.5	184
209	Topological analysis of the quantum Hall effect in graphene: Dirac-Fermi transition across van Hove singularities and edge versus bulk quantum numbers. <i>Physical Review B</i> , 2006 , 74,	3.3	153
208	Energy spectrum and the quantum Hall effect on the square lattice with next-nearest-neighbor hopping. <i>Physical Review B</i> , 1990 , 42, 8282-8294	3.3	142
207	Symmetry-protected exceptional rings in two-dimensional correlated systems with chiral symmetry. <i>Physical Review B</i> , 2019 , 99,	3.3	137
206	Spin-liquid ground state of the half-filled Kondo lattice in one dimension. <i>Physical Review B</i> , 1992 , 46, 3175-3178	3.3	123
205	Entanglement entropy and the Berry phase in the solid state. <i>Physical Review B</i> , 2006 , 73,	3.3	102
204	Optical Hall conductivity in ordinary and graphene quantum Hall systems. <i>Physical Review Letters</i> , 2009 , 103, 116803	7.4	96
203	Quantized Berry Phases as a Local Order Parameter of a Quantum Liquid. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 123601	1.5	94
202	Stabilization of flux states on two-dimensional lattices. <i>Physical Review B</i> , 1990 , 41, 9174-9182	3.3	88
201	Manipulation of Dirac Cones in Mechanical Graphene. <i>Scientific Reports</i> , 2015 , 5, 18107	4.9	88
200	Topological aspects of the quantum spin-Hall effect in graphene: Z ₂ topological order and spin Chern number. <i>Physical Review B</i> , 2007 , 75,	3.3	82
199	Localization problem of a two-dimensional lattice in a random magnetic field. <i>Physical Review B</i> , 1993 , 47, 9561-9565	3.3	76

198	Characterization of Topological Insulators: Chern Numbers for Ground State Multiplet. <i>Journal of the Physical Society of Japan</i> , 2005 , 74, 1374-1377	1.5	67
197	Topological classification of gapped spin chains: Quantized Berry phase as a local order parameter. <i>Physical Review B</i> , 2008 , 77,	3.3	62
196	Explicit Gauge Fixing for Degenerate Multiplets: A Generic Setup for Topological Orders. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 2604-2607	1.5	60
195	Disordered critical wave functions in random-bond models in two dimensions: Random-lattice fermions at E=0 without doubling. <i>Physical Review B</i> , 1997 , 56, 1061-1064	3.3	56
194	Numerical study of the hidden antiferromagnetic order in the Haldane phase. <i>Physical Review B</i> , 1991 , 44, 11789-11794	3.3	56
193	Cyclotron radiation and emission in graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	53
192	Electron spectral function of an interacting two dimensional electron gas in a strong magnetic field. <i>Physical Review Letters</i> , 1993 , 71, 424-427	7.4	53
191	Exceptional rings protected by emergent symmetry for mechanical systems. <i>Physical Review B</i> , 2019 , 100,	3.3	52
190	Spin Wave Theory of the Two-Dimensional Heisenberg Antiferromagnet Coupled with Localized Holes. <i>Journal of the Physical Society of Japan</i> , 1989 , 58, 978-997	1.5	52
189	Electronic Structure of HighTcSuperconducting Layered Perovskite La-Cu-O and Y-Ba-Cu-O by LMTD Method. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L716-L718	1.4	51
188	Sum Rule of Hall Conductance in a Random Quantum Phase Transition. <i>Physical Review Letters</i> , 1999 , 83, 2246-2249	7.4	50
187	Z Q topological invariants for Polyacetylene, Kagome and Pyrochlore lattices. <i>Europhysics Letters</i> , 2011 , 95, 20003	1.6	46
186	Chiral operator product algebra and edge excitations of a fractional quantum Hall droplet. <i>Nuclear Physics B</i> , 1994 , 422, 476-494	2.8	46
185	Non-Hermitian fractional quantum Hall states. <i>Scientific Reports</i> , 2019 , 9, 16895	4.9	45
184	Mirror skin effect and its electric circuit simulation. <i>Physical Review Research</i> , 2020 , 2,	3.9	45
183	Topological aspects of the quantum Hall effect. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 2507-2549	1.8	44
182	Phase diagram of a disordered higher-order topological insulator: A machine learning study. <i>Physical Review B</i> , 2019 , 99,	3.3	42
181	Near Critical States of Random Dirac Fermions. <i>Physical Review Letters</i> , 1997 , 79, 3728-3731	7.4	42

- 180 Exact analysis of entanglement in gapped quantum spin chains. *Physical Review B*, **2007**, 76, 3-3 42
- 179 Bulk-edge correspondence in graphene with/without magnetic field: Chiral symmetry, Dirac fermions and edge states. *Solid State Communications*, **2009**, 149, 1061-1067 1.6 41
- 178 Quantum fluctuation of tunneling current in individual Ge quantum dots induced by a single-electron transfer. *Applied Physics Letters*, **2007**, 90, 153104 3-4 41
- 177 Persistent currents and edge states in a magnetic field. *Physical Review B*, **1993**, 47, 9501-9512 3-3 41
- 176 Phase diagram of the $S=1/2$ quantum spin chain with bond alternation. *Physical Review B*, **1993**, 48, 9555-9563 3-3 41
- 175 Half-integer contributions to the quantum Hall conductivity from single Dirac cones. *Physical Review B*, **2010**, 82, 3-3 39
- 174 Explicit solutions of the Bethe ansatz equations for the Bloch electrons in a magnetic field. *Physical Review Letters*, **1994**, 73, 1134-1137 7-4 39
- 173 Symmetry-protected quantization and bulk-edge correspondence of massless Dirac fermions: Application to the fermionic Shastry-Sutherland model. *Physical Review B*, **2013**, 88, 3-3 35
- 172 Higher-Order Topological Mott Insulators. *Physical Review Letters*, **2019**, 123, 196402 7-4 34
- 171 Numerical study of localization of Dirac fermions on a lattice in two dimensions. *Physical Review B*, **1993**, 48, 4204-4207 3-3 34
- 170 Magnetic Mechanism of Superconductivity in Coupled Spin-Fermion Systems. *Journal of the Physical Society of Japan*, **1988**, 57, 2901-2904 1.5 34
- 169 Quantum Hall plateau transition in graphene with spatially correlated random hopping. *Physical Review Letters*, **2009**, 103, 156804 7-4 33
- 168 Symmetry-protected \mathbb{Z}_2 -quantization and quaternionic Berry connection with Kramers degeneracy. *New Journal of Physics*, **2010**, 12, 065004 2.9 30
- 167 Pairing of Fermions Coupled with Spin-1/2 Heisenberg System Exact Diagonalization Study for Mechanism of High- T_c Superconductivity. *Journal of the Physical Society of Japan*, **1989**, 58, 1347-1371 1.5 30
- 166 Zero modes in the random hopping model. *Physical Review B*, **2002**, 66, 3-3 28
- 165 Gauge invariance of fractionally charged quasiparticles and hidden topological \mathbb{Z}_n symmetry. *Physical Review Letters*, **1991**, 66, 659-662 7-4 28
- 164 String correlation functions in the anisotropic spin-1 Heisenberg chain. *Physical Review B*, **1992**, 46, 13914-13918 3-3 28
- 163 Bulk-edge correspondence in topological pumping. *Physical Review B*, **2016**, 94, 3-3 27

162	Degeneracy and consistency condition for Berry phases: Gap closing under a local gauge twist. <i>Physical Review B</i> , 2008 , 78,	3.3	27
161	Quantum group, Bethe ansatz equations, and Bloch wave functions in magnetic fields. <i>Physical Review B</i> , 1996 , 53, 9697-9712	3.3	27
160	Higher-order topological phases in a spring-mass model on a breathing kagome lattice. <i>Physical Review B</i> , 2020 , 101,	3.3	25
159	Entanglement polarization for the topological quadrupole phase. <i>Physical Review B</i> , 2018 , 98,	3.3	25
158	Topological aspects of graphene. <i>European Physical Journal: Special Topics</i> , 2007 , 148, 133-141	2.3	25
157	Generalized chiral symmetry and stability of zero modes for tilted Dirac cones. <i>Physical Review B</i> , 2011 , 83,	3.3	24
156	Quantized Berry phases for a local characterization of spin liquids in frustrated spin systems. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 145209	1.8	24
155	Braid group and anyons on a cylinder. <i>Physical Review B</i> , 1991 , 43, 2661-2677	3.3	24
154	Ab initio bond self-interaction correction calculation of tetrahedrally bonded semiconductors and its application to superlattices by the most localized linear muffin-tin orbital method. <i>Physical Review B</i> , 1988 , 37, 1280-1286	3.3	24
153	Edge states in graphene in magnetic fields: A specialty of the edge mode embedded in the $n=0$ Landau band. <i>Physical Review B</i> , 2008 , 78,	3.3	23
152	Electronic structure of charge and spin stripe order in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ ($x=13,12$). <i>Physical Review B</i> , 2007 , 76,	3.3	22
151	Exactly Solvable Model of Correlated Lattice Electrons in Any Dimensions. <i>Journal of the Physical Society of Japan</i> , 1992 , 61, 2056-2069	1.5	22
150	String Correlation of Quantum Antiferromagnetic Spin Chains with $S=1$ and 2. <i>Journal of the Physical Society of Japan</i> , 1992 , 61, 3856-3860	1.5	22
149	ZQ Berry phase for higher-order symmetry-protected topological phases. <i>Physical Review Research</i> , 2020 , 2,	3.9	22
148	Many-Body Chern Number without Integration. <i>Physical Review Letters</i> , 2019 , 122, 146601	7.4	20
147	Topological identification of a spin-12 two-leg ladder with four-spin ring exchange. <i>Physical Review B</i> , 2009 , 79,	3.3	20
146	Topological Meaning of Z_2 Numbers in Time Reversal Invariant Systems. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 123705	1.5	20
145	Mutual-exclusion statistics in exactly solvable models in one and higher dimensions at low temperatures. <i>Physical Review B</i> , 1996 , 54, 5358-5367	3.3	20

- 144 $Z_{\{N\}}$ Berry Phases in Symmetry Protected Topological Phases. *Physical Review Letters*, **2018**, 120, 247202, 19
- 143 Entanglement Chern Number for an Extensive Partition of a Topological Ground State. *Journal of the Physical Society of Japan*, **2014**, 83, 113705 1.5 19
- 142 Hidden massive Dirac fermions in effective field theory for integral quantum Hall transitions. *Physical Review B*, **1996**, 54, 4898-4906 3.3 19
- 141 Peierls stabilization of magnetic-flux states of two-dimensional lattice electrons. *Physical Review B*, **1990**, 41, 9527-9529 3.3 19
- 140 Entanglement Entropy of One-dimensional Gapped Spin Chains. *Journal of the Physical Society of Japan*, **2007**, 76, 074603 1.5 18
- 139 Edge states of hydrogen terminated monolayer materials: silicene, germanene and stanene ribbons. *Journal of Physics Condensed Matter*, **2017**, 29, 115302 1.8 17
- 138 Singular density of states of disordered Dirac fermions in chiral models. *Physical Review B*, **2001**, 65, 3.3 17
- 137 Duality in the Azbel-Hofstadter Problem and Two-Dimensional d-Wave Superconductivity with a Magnetic Field. *Physical Review Letters*, **2001**, 86, 151-154 7.4 17
- 136 Flat band quantum scar. *Physical Review B*, **2020**, 102, 3.3 17
- 135 Exceptional band touching for strongly correlated systems in equilibrium. *Progress of Theoretical and Experimental Physics*, **2020**, 2020, 5.4 17
- 134 Manipulation of the Dirac cones and the anomaly in the graphene related quantum Hall effect. *Journal of Physics: Conference Series*, **2011**, 334, 012044 0.3 16
- 133 Edge states of a spin-12 two-leg ladder with four-spin ring exchange. *Physical Review B*, **2009**, 79, 3.3 16
- 132 Scaling near random criticality in two-dimensional Dirac fermions. *Physical Review B*, **1998**, 58, 6680-6683, 3.3 16
- 131 Square-root higher-order topological insulator on a decorated honeycomb lattice. *Physical Review A*, **2020**, 102, 2.6 16
- 130 Topological aspect of graphene physics. *Journal of Physics: Conference Series*, **2011**, 334, 012004 0.3 15
- 129 Quantum Hall effects of graphene with multiorbitals: Topological numbers, Boltzmann conductance, and semiclassical quantization. *Physical Review B*, **2009**, 79, 3.3 15
- 128 Flat bands in the Weaire-Thorpe model and silicene. *New Journal of Physics*, **2015**, 17, 025009 2.9 14
- 127 Characterizing weak topological properties: Berry phase point of view. *Physical Review B*, **2014**, 90, 3.3 14

126	Chiral symmetry and its manifestation in optical responses in graphene: interaction and multilayers. <i>New Journal of Physics</i> , 2013 , 15, 035023	2.9	14
125	Mott transition in the two-dimensional flux phase. <i>Physical Review B</i> , 2002 , 65,	3.3	14
124	Simple exactly solvable models of non-Fermi-liquids. <i>Physical Review B</i> , 1998 , 57, 1340-1343	3.3	14
123	Thermal activation of quasiparticles and thermodynamics of fractional quantum Hall liquids. <i>Physical Review B</i> , 1998 , 57, 9907-9919	3.3	14
122	Higher-Order Topological Phase in a Honeycomb-Lattice Model with Anti-Kekulé Distortion. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 104703	1.5	13
121	Collapse of the charge gap in random Mott insulators. <i>Physical Review B</i> , 1998 , 58, 15314-15316	3.3	13
120	Anyons on a torus: Braid group, Aharonov-Bohm period, and numerical study. <i>Physical Review B</i> , 1991 , 43, 10761-10768	3.3	13
119	Molecular-orbital representation of generic flat-band models. <i>Europhysics Letters</i> , 2019 , 127, 47001	1.6	12
118	Symmetry Protected Weak Topological Phases in a Superlattice. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 073708	1.5	12
117	Gap-opening transition and fractal ground-state phase diagram in one-dimensional fermions with long-range interaction: Mott transition as a quantum phase transition of infinite order. <i>Physical Review B</i> , 1997 , 56, 12183-12189	3.3	12
116	Topological quantum phase transitions in superconductivity on lattices. <i>Physical Review B</i> , 2002 , 65,	3.3	12
115	Transitions from the quantum Hall state to the Anderson insulator: Fate of delocalized states. <i>Physical Review B</i> , 2000 , 61, 15952-15958	3.3	12
114	Plateau transitions in the pairing model: Topology and selection rule. <i>Physical Review B</i> , 2000 , 62, 99-102,	3.3	12
113	NUMERICAL ANALYSIS OF COUPLED SPIN-FERMION MODEL (PAIRING MECHANISM THROUGH EXTENDED KONDO SINGLET. <i>International Journal of Modern Physics B</i> , 1988 , 02, 959-973	1.1	12
112	Flat bands and higher-order topology in polymerized triptycene: Tight-binding analysis on decorated star lattices. <i>Physical Review Materials</i> , 2019 , 3,	3.2	12
111	Fractionally quantized Berry phase, adiabatic continuation, and edge states. <i>Physical Review B</i> , 2014 , 90,	3.3	11
110	Nontrivial Quantized Berry Phases for Itinerant Spin Liquids. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 113601	1.5	11
109	Superconductivity and Abelian chiral anomalies. <i>Physical Review B</i> , 2004 , 70,	3.3	11

108	Zero-energy edge states and chiral symmetry breaking at edges of graphite sheets. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 679-683	3	11
107	Numerical study of the effects of disorder on the three-dimensional Hubbard model. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 9317-9322	1.8	11
106	Square-root topological semimetals. <i>Physical Review B</i> , 2021 , 103,	3.3	11
105	Edge states of mechanical diamond and its topological origin. <i>New Journal of Physics</i> , 2017 , 19, 035003	2.9	10
104	Topological order parameters of the spin-12 dimerized Heisenberg ladder in magnetic field. <i>Physical Review B</i> , 2015 , 91,	3.3	10
103	Disentangled Topological Numbers by a Purification of Entangled Mixed States for Non-Interacting Fermion Systems. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 043703	1.5	10
102	Systematic construction of topological flat-band models by molecular-orbital representation. <i>Physical Review B</i> , 2020 , 101,	3.3	9
101	Section Chern number for a three-dimensional photonic crystal and the bulk-edge correspondence. <i>Physical Review B</i> , 2016 , 94,	3.3	9
100	Cyclotron radiation and emission in graphene & possibility of Landau-level laser. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022059	0.3	9
99	Topological low-energy modes in Landau levels of graphene: A possibility of a quantum-liquid ground state. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1530-1532	3	9
98	Universal behavior of correlations between eigenvalues of random matrices. <i>Physical Review E</i> , 1995 , 51, 5365-5370	2.4	9
97	Chiral condensate with topological degeneracy in graphene and its manifestation in edge states. <i>Physical Review B</i> , 2012 , 86,	3.3	8
96	Anomalous criticality at the $n=0$ quantum Hall transition in graphene: The role of disorder preserving chiral symmetry. <i>Physical Review B</i> , 2010 , 82,	3.3	8
95	GENERALIZATION OF CHIRAL SYMMETRY FOR TILTED DIRAC CONES. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 11, 145-150	0.7	8
94	Correlation effects of carbon nanotubes at boundaries: Spin polarization induced by zero-energy boundary states. <i>Physical Review B</i> , 2003 , 67,	3.3	8
93	Fate of fractional quantum Hall states in open quantum systems: Characterization of correlated topological states for the full Liouvillian. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
92	Circularly Polarized Topological Edge States Derived from Optical Weyl Points in Semiconductor-Based Chiral Woodpile Photonic Crystals. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 123401	1.5	8
91	Lattice realization of the generalized chiral symmetry in two dimensions. <i>Physical Review B</i> , 2016 , 94,	3.3	7

90	Edge states for the $n = 0$ Landau level in graphene. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022003,		7
89	Optical Hall conductivity in 2DEG and graphene QHE systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 751-754	3	7
88	Levitation and percolation in quantum Hall systems with correlated disorder. <i>Physical Review B</i> , 2007 , 76,	3-3	7
87	Topological description of (spin) Hall conductances on Brillouin zone lattices: quantum phase transitions and topological changes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 336-339	3	7
86	Numerical replica limit for the density correlation of the random Dirac fermion. <i>Physical Review B</i> , 2001 , 63,	3-3	7
85	Universal correlations in random matrices and one-dimensional particles with long-range interactions in a confinement potential. <i>Physical Review B</i> , 1995 , 52, 4716-4719	3-3	7
84	Phase diagram of the Ashkin-Teller quantum spin chain. <i>Physical Review B</i> , 1994 , 50, 559-562	3-3	7
83	Symmetry-Protected Multifold Exceptional Points and Their Topological Characterization. <i>Physical Review Letters</i> , 2021 , 127, 186602	7-4	7
82	Survival of sharp $n=0$ Landau levels in massive tilted Dirac fermions: Role of the generalized chiral operator. <i>Physical Review B</i> , 2015 , 91,	3-3	6
81	Many-Body Chern Numbers of $\mathbb{Z} \times 1/3$ and $1/2$ States on Various Lattices. <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 103701	1-5	6
80	Topologically protected Landau levels in bilayer graphene in finite electric fields. <i>Physical Review B</i> , 2012 , 85,	3-3	6
79	Topological quantum phase transition in the BEC-BCS crossover. <i>Physical Review B</i> , 2010 , 82,	3-3	6
78	Landau level broadening in graphene with long-range disorder Robustness of the $n=0$ level. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 759-762	3	6
77	$U(1)$ symmetry breaking in one-dimensional Mott insulators studied by the density matrix renormalization group method. <i>Physical Review B</i> , 2007 , 76,	3-3	6
76	Magnetism in the two-dimensional tJ Hubbard model: From low- to over-doping. <i>Physical Review B</i> , 2005 , 71,	3-3	6
75	Zero-energy edge states and their origin in particle-hole symmetric systems: symmetry and topology. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 90-91	1-3	6
74	EFFECTS OF INTERACTION FOR THE QUANTUM DIFFUSION IN COUPLED CHAINS. <i>International Journal of Modern Physics B</i> , 2001 , 15, 2045-2052	1-1	6
73	Anisotropy on the Fermi surface of the two-dimensional Hubbard model. <i>Physical Review B</i> , 2002 , 66,	3-3	6

72	Landau levels from the Bethe Ansatz equations. <i>Physical Review B</i> , 2000 , 61, 4409-4412	3.3	6
71	Spin polarized electron energy band of orthorhombic (La ₂ CuO ₄) ₂ . <i>Solid State Communications</i> , 1988 , 65, 1271-1274	1.6	6
70	Type-III Dirac Cones from Degenerate Directionally Flat Bands: Viewpoint from Molecular-Orbital Representation. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 103704	1.5	6
69	Entanglement Chern Number of the Kane-Mele Model with Ferromagnetism. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 043706	1.5	5
68	Fractionally Quantized Berry Phase in an Anisotropic Magnet on the Kagome Lattice. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 045001	1.5	5
67	Single-particle states on a sphere with a magnetic field and disorder. <i>Physical Review B</i> , 1995 , 51, 13419-13431	3.3	5
66	Conductivity of 2D Lattice Electrons in an Incommensurate Magnetic Field. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 529-537	1.5	5
65	Exact ground-state correlation functions of one-dimensional strongly correlated electron models with resonating-valence-bond ground state. <i>Journal of Statistical Physics</i> , 1996 , 84, 1133-1208	1.5	5
64	Weyl points of mechanical diamond. <i>Physical Review B</i> , 2019 , 99,	3.3	5
63	Bulk-edge correspondence of classical diffusion phenomena. <i>Scientific Reports</i> , 2021 , 11, 888	4.9	5
62	Exactly solvable model for correlated lattice fermions in any dimensions. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 1539-1540	1.3	4
61	Interaction-induced doublons and embedded topological subspace in a complete flat-band system. <i>Physical Review A</i> , 2020 , 102,	2.6	4
60	Bulk-edge correspondence in topological transport and pumping. <i>Journal of Physics: Conference Series</i> , 2018 , 969, 012133	0.3	4
59	Entanglement Chern number for three-dimensional topological insulators: Characterization by Weyl points of entanglement Hamiltonians. <i>Physical Review B</i> , 2017 , 96,	3.3	3
58	Interacting Electron Wave Packet Dynamics in a Two-Dimensional Nanochannel. <i>Applied Physics Express</i> , 2013 , 6, 065201	2.4	3
57	Optical Hall conductivity in QHE systems. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022060	0.3	3
56	Numerical study of quantum Hall effect in two-dimensional multi-band system: Single- and multi-layer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 740-743	3	3
55	Square-root topological phase with time-reversal and particle-hole symmetry. <i>Physical Review B</i> , 2021 , 103,	3.3	3

54	Topologically Protected Doubling of Tilted Dirac Fermions in Two Dimensions. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800524	1.3	2
53	Adiabatic heuristic principle on a torus and generalized Streda formula. <i>Physical Review B</i> , 2020 , 102,	3.3	2
52	Hannay Angle: Yet Another Symmetry-Protected Topological Order Parameter in Classical Mechanics. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 043001	1.5	2
51	Polarization as a topological quantum number in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	2
50	Spin-resolved chiral condensate as a spin-unpolarized \mathbb{Z}_2 quantum Hall state in graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	2
49	Influence of Coulomb Blockade on Wave Packet Dynamics in Nanoscale Structures. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CJ06	1.4	2
48	\mathbb{Z}_2 topological number of local quantum clusters in the orthogonal dimer model. <i>Journal of Physics: Conference Series</i> , 2011 , 320, 012019	0.3	2
47	Entanglement entropy of the bond order phase in graphene in magnetic fields 2011 ,		2
46	Non-adiabatic effect on Laughlin's argument of the quantum Hall effect. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022055	0.3	2
45	Quantized Berry phases of Kondo insulators. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 042116	0.3	2
44	Quantized Berry phases of a Spin-1/2 frustrated two-leg ladder with four-spin exchange. <i>Journal of Physics: Conference Series</i> , 2009 , 145, 012052	0.3	2
43	Quasiparticle structure in the vicinity of the Heisenberg model in one and higher dimensions. <i>Physical Review B</i> , 2004 , 70,	3.3	2
42	Spin liquid ground state of the half-filled Kondo lattice in one dimension. <i>Physica B: Condensed Matter</i> , 1993 , 186-188, 882-884	2.8	2
41	Interaction-induced topological charge pump. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
40	Topological Modes Protected by Chiral and Two-Fold Rotational Symmetry in a Spring-Mass Model with a Lieb Lattice Structure. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 083702	1.5	2
39	Flat band, spin-1 Dirac cone, and Hofstadter diagram in the fermionic square kagome model. <i>Physical Review B</i> , 2021 , 104,	3.3	2
38	A Spin Pump Characterized by Entanglement Chern Numbers. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 083703	1.5	2
37	Fractional Quantum Hall Effect in $n = 0$ Landau Band of Graphene with Chern Number Matrix. <i>Journal of the Physical Society of Japan</i> , 2018 , 87, 063701	1.5	2

36	Flat-band solutions in D-dimensional decorated diamond and pyrochlore lattices: Reduction to molecular problem. <i>Physical Review B</i> , 2021 , 104,	3.3	2
35	Correlation effects on non-Hermitian point-gap topology in zero dimension: Reduction of topological classification. <i>Physical Review B</i> , 2021 , 104,	3.3	2
34	Chiral edge modes in evolutionary game theory: A kagome network of rock-paper-scissors cycles. <i>Physical Review E</i> , 2021 , 104, 025003	2.4	2
33	So Small Implies So Large: For a Material Design. <i>JPSJ News and Comments</i> , 2019 , 16, 13	0.1	1
32	Sequential quantum phase transitions in $J1Q2$ Heisenberg chains with integer spins ($S>1$): Quantized Berry phase and valence-bond solids. <i>Physical Review B</i> , 2019 , 100,	3.3	1
31	Numerical study of electronic structure under uniform magnetic field and quantized Hall conductance for multi-band tight-binding models. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012042	0.3	1
30	Multi-Electron Wave Packet Dynamics in Applied Electric Field. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BJ01	1.4	1
29	Topological Aspects of Quantum Hall Effect in Graphene. <i>International Journal of Modern Physics B</i> , 2007 , 21, 1133-1139	1.1	1
28	Two-matrix models and their possible relevance to disordered systems. <i>Physical Review B</i> , 1996 , 53, 8369-8377	3.9	1
27	Non-Hermitian topology in rock-paper-scissors games.. <i>Scientific Reports</i> , 2022 , 12, 560	4.9	1
26	Revisiting Flat bands and localization. <i>Annals of Physics</i> , 2021 , 435, 168453	2.5	1
25	Bulk-edge correspondence with generalized chiral symmetry. <i>Physical Review B</i> , 2021 , 103,	3.3	1
24	Detecting Bulk Topology of Quadrupolar Phase from Quench Dynamics. <i>Physical Review Letters</i> , 2021 , 126, 016802	7.4	1
23	Edge states of a diffusion equation in one dimension: Rapid heat conduction to the heat bath.. <i>Physical Review E</i> , 2022 , 105, 024137	2.4	1
22	NUMERICAL STUDY OF DELOCALIZED STATES IN AN EXTENDED NETWORK MODEL. <i>International Journal of Modern Physics B</i> , 2003 , 17, 1101-1108	1.1	0
21	Higher-order topological Mott insulator on the pyrochlore lattice. <i>Scientific Reports</i> , 2021 , 11, 20270	4.9	0
20	Machine Learning of Mirror Skin Effects in the Presence of Disorder. <i>Journal of the Physical Society of Japan</i> , 2021 , 90, 053703	1.5	0
19	Robust zero modes in disordered two-dimensional honeycomb lattice with Kekulé bond ordering. <i>Annals of Physics</i> , 2021 , 168440	2.5	0

18	Chiral Symmetry and Many-Body Effect in Multilayer Graphene. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012013	0.3
17	Edge states in graphene quantum Hall system with bond vs potential disorder. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012043	0.3
16	Role of Synthetic Ferrimagnets in Magnetic Tunnel Junctions from Wave Packet Dynamics. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BM03	1.4
15	Chiral Symmetry and Electron-Electron Interaction in Many-Body Gap Formation in Graphene. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 042015	0.3
14	Wave Packet Dynamics in the Spin Torque Transfer. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 044706	1.5
13	Topological Identification of location of spin singlet pairs and edge states. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 022075	0.3
12	Exact results for the excitonic phase. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 4767-4774	1.8
11	The adiabatic connection between the resonating-valence-bond state and the ground state of the half-filled periodic Anderson model. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 10353-10357	1.8
10	Disordered critical wave functions of two-dimensional Dirac fermions on a lattice. <i>Physica B: Condensed Matter</i> , 1998 , 249-251, 796-800	2.8
9	Correlation effects on the Fermi surface of the two-dimensional Hubbard model. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 1389-1391	3.9
8	Dirac monopole and spin Hall conductance for anisotropic superconductivities. <i>Physica C: Superconductivity and Its Applications</i> , 2003 , 388-389, 78-79	1.3
7	Dielectric Response of Interacting 1D Spinless Fermions with Disorder. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 311-314	1.5
6	Breakdown of the IQHE and the selection rule. <i>Physica B: Condensed Matter</i> , 2001 , 298, 24-27	2.8
5	Delocalized states of the quantum Hall effect in the weak magnetic field. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 1724-1725	2.8
4	Exact results on superconductivity due to interband coupling. <i>Physical Review B</i> , 1996 , 53, 8561-8565	3.3
3	Multisheet configuration space and fractional quantum statistics. <i>Physical Review B</i> , 1992 , 45, 11161-11165	3.5
2	Anderson Localization and Polarization. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 147-148	1.5
1	Scattering of Dirac Fermions with Doubling. <i>JPSJ News and Comments</i> , 2010 , 7, 13	0.1

