

# Yasuhiro Hatsugai

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/925193/yasuhiro-hatsugai-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Non-Hermitian topology in rock-paper-scissors games.. <i>Scientific Reports</i> , <b>2022</b> , 12, 560	4.9	1
214	Edge states of a diffusion equation in one dimension: Rapid heat conduction to the heat bath.. <i>Physical Review E</i> , <b>2022</b> , 105, 024137	2.4	1
213	Higher-order topological Mott insulator on the pyrochlore lattice. <i>Scientific Reports</i> , <b>2021</b> , 11, 20270	4.9	0
212	Symmetry-Protected Multifold Exceptional Points and Their Topological Characterization. <i>Physical Review Letters</i> , <b>2021</b> , 127, 186602	7.4	7
211	Revisiting Flat bands and localization. <i>Annals of Physics</i> , <b>2021</b> , 435, 168453	2.5	1
210	Bulk-edge correspondence with generalized chiral symmetry. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
209	Machine Learning of Mirror Skin Effects in the Presence of Disorder. <i>Journal of the Physical Society of Japan</i> , <b>2021</b> , 90, 053703	1.5	0
208	Square-root topological phase with time-reversal and particle-hole symmetry. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
207	Flat band, spin-1 Dirac cone, and Hofstadter diagram in the fermionic square kagome model. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
206	Bulk-edge correspondence of classical diffusion phenomena. <i>Scientific Reports</i> , <b>2021</b> , 11, 888	4.9	5
205	Detecting Bulk Topology of Quadrupolar Phase from Quench Dynamics. <i>Physical Review Letters</i> , <b>2021</b> , 126, 016802	7.4	1
204	Square-root topological semimetals. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	11
203	Robust zero modes in disordered two-dimensional honeycomb lattice with Kekulé bond ordering. <i>Annals of Physics</i> , <b>2021</b> , 168440	2.5	0
202	Flat-band solutions in D-dimensional decorated diamond and pyrochlore lattices: Reduction to molecular problem. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
201	Correlation effects on non-Hermitian point-gap topology in zero dimension: Reduction of topological classification. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
200	Chiral edge modes in evolutionary game theory: A kagome network of rock-paper-scissors cycles. <i>Physical Review E</i> , <b>2021</b> , 104, 025003	2.4	2
199	Adiabatic heuristic principle on a torus and generalized Streda formula. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2

198	Systematic construction of topological flat-band models by molecular-orbital representation. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	9
197	Higher-order topological phases in a spring-mass model on a breathing kagome lattice. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	25
196	Flat band quantum scar. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	17
195	ZQ Berry phase for higher-order symmetry-protected topological phases. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	22
194	Mirror skin effect and its electric circuit simulation. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	45
193	Fate of fractional quantum Hall states in open quantum systems: Characterization of correlated topological states for the full Liouvillian. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	8
192	Interaction-induced topological charge pump. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	2
191	Square-root higher-order topological insulator on a decorated honeycomb lattice. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	16
190	Interaction-induced doublons and embedded topological subspace in a complete flat-band system. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	4
189	Exceptional band touching for strongly correlated systems in equilibrium. <i>Progress of Theoretical and Experimental Physics</i> , <b>2020</b> , 2020,	5.4	17
188	Type-III Dirac Cones from Degenerate Directionally Flat Bands: Viewpoint from Molecular-Orbital Representation. <i>Journal of the Physical Society of Japan</i> , <b>2020</b> , 89, 103704	1.5	6
187	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> , <b>2020</b> , 89, 083702	1.5	2
186	Exceptional rings protected by emergent symmetry for mechanical systems. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	52
185	Higher-Order Topological Phase in a Honeycomb-Lattice Model with Anti-Kekulé Distortion. <i>Journal of the Physical Society of Japan</i> , <b>2019</b> , 88, 104703	1.5	13
184	So Small Implies So Large: For a Material Design. <i>JPSJ News and Comments</i> , <b>2019</b> , 16, 13	0.1	1
183	Topologically Protected Doubling of Tilted Dirac Fermions in Two Dimensions. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800524	1.3	2
182	Symmetry-protected exceptional rings in two-dimensional correlated systems with chiral symmetry. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	137
181	Many-Body Chern Number without Integration. <i>Physical Review Letters</i> , <b>2019</b> , 122, 146601	7.4	20

180	Phase diagram of a disordered higher-order topological insulator: A machine learning study. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	42
179	Sequential quantum phase transitions in $J1J2$ Heisenberg chains with integer spins ( $S>1$ ): Quantized Berry phase and valence-bond solids. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
178	Fractionally Quantized Berry Phase in an Anisotropic Magnet on the Kagome Lattice. <i>Journal of the Physical Society of Japan</i> , <b>2019</b> , 88, 045001	1.5	5
177	Higher-Order Topological Mott Insulators. <i>Physical Review Letters</i> , <b>2019</b> , 123, 196402	7.4	34
176	Molecular-orbital representation of generic flat-band models. <i>Europhysics Letters</i> , <b>2019</b> , 127, 47001	1.6	12
175	Non-Hermitian fractional quantum Hall states. <i>Scientific Reports</i> , <b>2019</b> , 9, 16895	4.9	45
174	Flat bands and higher-order topology in polymerized triptycene: Tight-binding analysis on decorated star lattices. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	12
173	Weyl points of mechanical diamond. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	5
172	Entanglement polarization for the topological quadrupole phase. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	25
171	$Z_N$ Berry Phases in Symmetry Protected Topological Phases. <i>Physical Review Letters</i> , <b>2018</b> , 120, 247202	7.4	19
170	Bulk-edge correspondence in topological transport and pumping. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 969, 012133	0.3	4
169	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> , <b>2018</b> , 87, 123401	1.5	8
168	Fractional Quantum Hall Effect in $n = 0$ Landau Band of Graphene with Chern Number Matrix. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 063701	1.5	2
167	Edge states of hydrogen terminated monolayer materials: silicene, germanene and stanene ribbons. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 115302	1.8	17
166	Edge states of mechanical diamond and its topological origin. <i>New Journal of Physics</i> , <b>2017</b> , 19, 035003	2.9	10
165	Entanglement Chern number for three-dimensional topological insulators: Characterization by Weyl points of entanglement Hamiltonians. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	3
164	Many-Body Chern Numbers of $\mathbb{Z}_3$ 1/3 and 1/2 States on Various Lattices. <i>Journal of the Physical Society of Japan</i> , <b>2017</b> , 86, 103701	1.5	6
163	Hannay Angle: Yet Another Symmetry-Protected Topological Order Parameter in Classical Mechanics. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 043001	1.5	2

162	Section Chern number for a three-dimensional photonic crystal and the bulk-edge correspondence. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	9
161	Bulk-edge correspondence in topological pumping. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	27
160	Entanglement Chern Number of the Kane-Mele Model with Ferromagnetism. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 043706	1.5	5
159	Lattice realization of the generalized chiral symmetry in two dimensions. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
158	A Spin Pump Characterized by Entanglement Chern Numbers. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 083703	1.5	2
157	Flat bands in the Weaire-Thorpe model and silicene. <i>New Journal of Physics</i> , <b>2015</b> , 17, 025009	2.9	14
156	Survival of sharp $n=0$ Landau levels in massive tilted Dirac fermions: Role of the generalized chiral operator. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
155	Topological order parameters of the spin-12 dimerized Heisenberg ladder in magnetic field. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	10
154	Disentangled Topological Numbers by a Purification of Entangled Mixed States for Non-Interacting Fermion Systems. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 043703	1.5	10
153	Manipulation of Dirac Cones in Mechanical Graphene. <i>Scientific Reports</i> , <b>2015</b> , 5, 18107	4.9	88
152	Polarization as a topological quantum number in graphene. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	2
151	Entanglement Chern Number for an Extensive Partition of a Topological Ground State. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 113705	1.5	19
150	Fractionally quantized Berry phase, adiabatic continuation, and edge states. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	11
149	Characterizing weak topological properties: Berry phase point of view. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	14
148	Spin-resolved chiral condensate as a spin-unpolarized $\mathbb{Z}_0$ quantum Hall state in graphene. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	2
147	Interacting Electron Wave Packet Dynamics in a Two-Dimensional Nanochannel. <i>Applied Physics Express</i> , <b>2013</b> , 6, 065201	2.4	3
146	Influence of Coulomb Blockade on Wave Packet Dynamics in Nanoscale Structures. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 04CJ06	1.4	2
145	Symmetry-protected quantization and bulk-edge correspondence of massless Dirac fermions: Application to the fermionic Shastry-Sutherland model. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	35

144	Chiral symmetry and its manifestation in optical responses in graphene: interaction and multilayers. <i>New Journal of Physics</i> , <b>2013</b> , 15, 035023	2.9	14
143	Chiral Symmetry and Many-Body Effect in Multilayer Graphene. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 456, 012013	0.3	
142	Symmetry Protected Weak Topological Phases in a Superlattice. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 073708	1.5	12
141	Chiral condensate with topological degeneracy in graphene and its manifestation in edge states. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	8
140	Role of Synthetic Ferrimagnets in Magnetic Tunnel Junctions from Wave Packet Dynamics. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BM03	1.4	
139	Multi-Electron Wave Packet Dynamics in Applied Electric Field. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 02BJ01	1.4	1
138	Topologically protected Landau levels in bilayer graphene in finite electric fields. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	6
137	Chiral Symmetry and Electron-Electron Interaction in Many-Body Gap Formation in Graphene. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 400, 042015	0.3	
136	GENERALIZATION OF CHIRAL SYMMETRY FOR TILTED DIRAC CONES. <i>International Journal of Modern Physics Conference Series</i> , <b>2012</b> , 11, 145-150	0.7	8
135	Wave Packet Dynamics in the Spin Torque Transfer. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 044706	1.5	
134	Z2topological number of local quantum clusters in the orthogonal dimer model. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 320, 012019	0.3	2
133	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> , <b>2011</b> , 334, 012042	0.3	1
132	Edge states in graphene quantum Hall system with bond vs potential disorder. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012043	0.3	
131	Manipulation of the Dirac cones and the anomaly in the graphene related quantum Hall effect. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012044	0.3	16
130	Entanglement entropy of the bond order phase in graphene in magnetic fields <b>2011</b> ,		2
129	Topological aspect of graphene physics. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012004	0.3	15
128	Z Q topological invariants for Polyacetylene, Kagome and Pyrochlore lattices. <i>Europhysics Letters</i> , <b>2011</b> , 95, 20003	1.6	46
127	Generalized chiral symmetry and stability of zero modes for tilted Dirac cones. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	24

126	Half-integer contributions to the quantum Hall conductivity from single Dirac cones. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	39
125	Anomalous criticality at the $n=0$ quantum Hall transition in graphene: The role of disorder preserving chiral symmetry. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	8
124	Symmetry-protected $\mathbb{Z}_2$ -quantization and quaternionic Berry connection with Kramers degeneracy. <i>New Journal of Physics</i> , <b>2010</b> , 12, 065004	2.9	30
123	Topological Identification of location of spin singlet pairs and edge states. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 022075	0.3	
122	Topological quantum phase transition in the BEC-BCS crossover. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
121	Landau level broadening in graphene with long-range disorder Robustness of the $n=0$ level. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 759-762	3	6
120	Optical Hall conductivity in 2DEG and graphene QHE systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 751-754	3	7
119	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> , <b>2010</b> , 42, 740-743	3	3
118	Scattering of Dirac Fermions with Doubling. <i>JPSJ News and Comments</i> , <b>2010</b> , 7, 13	0.1	
117	Edge states of a spin-12 two-leg ladder with four-spin ring exchange. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	16
116	Topological identification of a spin-12 two-leg ladder with four-spin ring exchange. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	20
115	Quantum Hall plateau transition in graphene with spatially correlated random hopping. <i>Physical Review Letters</i> , <b>2009</b> , 103, 156804	7.4	33
114	Bulk-edge correspondence in graphene with/without magnetic field: Chiral symmetry, Dirac fermions and edge states. <i>Solid State Communications</i> , <b>2009</b> , 149, 1061-1067	1.6	41
113	Optical Hall conductivity in ordinary and graphene quantum Hall systems. <i>Physical Review Letters</i> , <b>2009</b> , 103, 116803	7.4	96
112	Quantum Hall effects of graphene with multiorbitals: Topological numbers, Boltzmann conductance, and semiclassical quantization. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	15
111	Non-adiabatic effect on Laughlin's argument of the quantum Hall effect. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 022055	0.3	2
110	Cyclotron radiation and emission in graphene $\square$ possibility of Landau-level laser. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 022059	0.3	9
109	Optical Hall conductivity in QHE systems. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 022060	0.3	3



108	Edge states for the $n = 0$ Landau level in graphene. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 022003,		7
107	Quantized Berry phases of Kondo insulators. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 150, 042116	0.3	2
106	Quantized Berry phases of a Spin-1/2 frustrated two-leg ladder with four-spin exchange. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 145, 012052	0.3	2
105	Topological Meaning of Z2 Numbers in Time Reversal Invariant Systems. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 123705	1.5	20
104	Cyclotron radiation and emission in graphene. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	53
103	Degeneracy and consistency condition for Berry phases: Gap closing under a local gauge twist. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	27
102	Topological classification of gapped spin chains: Quantized Berry phase as a local order parameter. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	62
101	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> , <b>2008</b> , 78,	3.3	23
100	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> , <b>2008</b> , 40, 1530-1532	3	9
99	Topological Aspects of Quantum Hall Effect in Graphene. <i>International Journal of Modern Physics B</i> , <b>2007</b> , 21, 1133-1139	1.1	1
98	Quantum Spin Hall Effect in Three Dimensional Materials: Lattice Computation of Z2 Topological Invariants and Its Application to Bi and Sb. <i>Journal of the Physical Society of Japan</i> , <b>2007</b> , 76, 053702	1.5	184
97	Topological aspects of graphene. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 148, 133-141	2.3	25
96	Quantized Berry phases for a local characterization of spin liquids in frustrated spin systems. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 145209	1.8	24
95	Quantum fluctuation of tunneling current in individual Ge quantum dots induced by a single-electron transfer. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 153104	3.4	41
94	Levitation and percolation in quantum Hall systems with correlated disorder. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	7
93	Exact analysis of entanglement in gapped quantum spin chains. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	42
92	Topological aspects of the quantum spin-Hall effect in graphene: Z2 topological order and spin Chern number. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	82
91	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> , <b>2007</b> , 76,	3.3	22



90	U(1) symmetry breaking in one-dimensional Mott insulators studied by the density matrix renormalization group method. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	6
89	Nontrivial Quantized Berry Phases for Itinerant Spin Liquids. <i>Journal of the Physical Society of Japan</i> , <b>2007</b> , 76, 113601	1.5	11
88	Entanglement Entropy of One-dimensional Gapped Spin Chains. <i>Journal of the Physical Society of Japan</i> , <b>2007</b> , 76, 074603	1.5	18
87	Quantized Berry Phases as a Local Order Parameter of a Quantum Liquid. <i>Journal of the Physical Society of Japan</i> , <b>2006</b> , 75, 123601	1.5	94
86	Entanglement entropy and the Berry phase in the solid state. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	102
85	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> , <b>2006</b> , 74,	3.3	153
84	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> , <b>2006</b> , 34, 336-339	3	7
83	Chern Numbers in Discretized Brillouin Zone: Efficient Method of Computing (Spin) Hall Conductances. <i>Journal of the Physical Society of Japan</i> , <b>2005</b> , 74, 1674-1677	1.5	630
82	Magnetism in the two-dimensional t $\bar{c}$ Hubbard model: From low- to over-doping. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	6
81	Characterization of Topological Insulators: Chern Numbers for Ground State Multiplet. <i>Journal of the Physical Society of Japan</i> , <b>2005</b> , 74, 1374-1377	1.5	67
80	Superconductivity and Abelian chiral anomalies. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	11
79	Quasiparticle structure in the vicinity of the Heisenberg model in one and higher dimensions. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	2
78	Zero-energy edge states and chiral symmetry breaking at edges of graphite sheets. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 679-683	3	11
77	Explicit Gauge Fixing for Degenerate Multiplets: A Generic Setup for Topological Orders. <i>Journal of the Physical Society of Japan</i> , <b>2004</b> , 73, 2604-2607	1.5	60
76	Dielectric Response of Interacting 1D Spinless Fermions with Disorder. <i>Journal of the Physical Society of Japan</i> , <b>2004</b> , 73, 311-314	1.5	
75	NUMERICAL STUDY OF DELOCALIZED STATES IN AN EXTENDED NETWORK MODEL. <i>International Journal of Modern Physics B</i> , <b>2003</b> , 17, 1101-1108	1.1	0
74	Dirac monopole and spin Hall conductance for anisotropic superconductivities. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 388-389, 78-79	1.3	
73	Zero-energy edge states and their origin in particle-hole symmetric systems: symmetry and topology. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 388-389, 90-91	1.3	6

72	Correlation effects of carbon nanotubes at boundaries: Spin polarization induced by zero-energy boundary states. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	8
71	Anderson Localization and Polarization. <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 147-148	1.5	
70	Correlation effects on the Fermi surface of the two-dimensional Hubbard model. <i>Journal of Physics and Chemistry of Solids</i> , <b>2002</b> , 63, 1389-1391	3.9	
69	Topological origin of zero-energy edge states in particle-hole symmetric systems. <i>Physical Review Letters</i> , <b>2002</b> , 89, 077002	7.4	454
68	Anisotropy on the Fermi surface of the two-dimensional Hubbard model. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	6
67	Mott transition in the two-dimensional flux phase. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	14
66	Zero modes in the random hopping model. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	28
65	Topological quantum phase transitions in superconductivity on lattices. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	12
64	Breakdown of the IQHE and the selection rule. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 298, 24-27	2.8	
63	EFFECTS OF INTERACTION FOR THE QUANTUM DIFFUSION IN COUPLED CHAINS. <i>International Journal of Modern Physics B</i> , <b>2001</b> , 15, 2045-2052	1.1	6
62	Singular density of states of disordered Dirac fermions in chiral models. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	17
61	Numerical replica limit for the density correlation of the random Dirac fermion. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	7
60	Duality in the Azbel-Hofstadter Problem and Two-Dimensional d-Wave Superconductivity with a Magnetic Field. <i>Physical Review Letters</i> , <b>2001</b> , 86, 151-154	7.4	17
59	Delocalized states of the quantum Hall effect in the weak magnetic field. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 284-288, 1724-1725	2.8	
58	Numerical study of the effects of disorder on the three-dimensional Hubbard model. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 9317-9322	1.8	11
57	Transitions from the quantum Hall state to the Anderson insulator: Fate of delocalized states. <i>Physical Review B</i> , <b>2000</b> , 61, 15952-15958	3.3	12
56	Plateau transitions in the pairing model: Topology and selection rule. <i>Physical Review B</i> , <b>2000</b> , 62, 99-102,	3.3	12
55	Landau levels from the Bethe Ansatz equations. <i>Physical Review B</i> , <b>2000</b> , 61, 4409-4412	3.3	6

54	Sum Rule of Hall Conductance in a Random Quantum Phase Transition. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2246-2249	7.4	50
53	Disordered critical wave functions of two-dimensional Dirac fermions on a lattice. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 249-251, 796-800	2.8	
52	Collapse of the charge gap in random Mott insulators. <i>Physical Review B</i> , <b>1998</b> , 58, 15314-15316	3.3	13
51	Simple exactly solvable models of non-Fermi-liquids. <i>Physical Review B</i> , <b>1998</b> , 57, 1340-1343	3.3	14
50	Scaling near random criticality in two-dimensional Dirac fermions. <i>Physical Review B</i> , <b>1998</b> , 58, 6680-6683	3.3	16
49	Thermal activation of quasiparticles and thermodynamics of fractional quantum Hall liquids. <i>Physical Review B</i> , <b>1998</b> , 57, 9907-9919	3.3	14
48	Near Critical States of Random Dirac Fermions. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3728-3731	7.4	42
47	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> , <b>1997</b> , 56, 12183-12189	3.3	12
46	Disordered critical wave functions in random-bond models in two dimensions: Random-lattice fermions at E=0 without doubling. <i>Physical Review B</i> , <b>1997</b> , 56, 1061-1064	3.3	56
45	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> , <b>1997</b> , 9, 10353-10357	1.8	
44	Topological aspects of the quantum Hall effect. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 2507-2549	1.8	44
43	Exact results for the excitonic phase. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 4767-4774	1.8	
42	Conductivity of 2D Lattice Electrons in an Incommensurate Magnetic Field. <i>Journal of the Physical Society of Japan</i> , <b>1996</b> , 65, 529-537	1.5	5
41	Exact ground-state correlation functions of one-dimensional strongly correlated electron models with resonating-valence-bond ground state. <i>Journal of Statistical Physics</i> , <b>1996</b> , 84, 1133-1208	1.5	5
40	Hidden massive Dirac fermions in effective field theory for integral quantum Hall transitions. <i>Physical Review B</i> , <b>1996</b> , 54, 4898-4906	3.3	19
39	Two-matrix models and their possible relevance to disordered systems. <i>Physical Review B</i> , <b>1996</b> , 53, 8369-8377	3.3	1
38	Mutual-exclusion statistics in exactly solvable models in one and higher dimensions at low temperatures. <i>Physical Review B</i> , <b>1996</b> , 54, 5358-5367	3.3	20
37	Quantum group, Bethe ansatz equations, and Bloch wave functions in magnetic fields. <i>Physical Review B</i> , <b>1996</b> , 53, 9697-9712	3.3	27

- 36 Exact results on superconductivity due to interband coupling. *Physical Review B*, **1996**, 53, 8561-8565 3.3
- 35 Single-particle states on a sphere with a magnetic field and disorder. *Physical Review B*, **1995**, 51, 13419-13431 3.3 5
- 34 Universal behavior of correlations between eigenvalues of random matrices. *Physical Review E*, **1995**, 51, 5365-5370 2.4 9
- 33 Universal correlations in random matrices and one-dimensional particles with long-range interactions in a confinement potential. *Physical Review B*, **1995**, 52, 4716-4719 3.3 7
- 32 Phase diagram of the Ashkin-Teller quantum spin chain. *Physical Review B*, **1994**, 50, 559-562 3.3 7
- 31 Chiral operator product algebra and edge excitations of a fractional quantum Hall droplet. *Nuclear Physics B*, **1994**, 422, 476-494 2.8 46
- 30 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
- 29 Edge states in the integer quantum Hall effect and the Riemann surface of the Bloch function. *Physical Review B*, **1993**, 48, 11851-11862 3.3 256
- 28 Chern number and edge states in the integer quantum Hall effect. *Physical Review Letters*, **1993**, 71, 3697-3700 7.4 3700 06
- 27 Persistent currents and edge states in a magnetic field. *Physical Review B*, **1993**, 47, 9501-9512 3.3 41
- 26 Numerical study of localization of Dirac fermions on a lattice in two dimensions. *Physical Review B*, **1993**, 48, 4204-4207 3.3 34
- 25 Localization problem of a two-dimensional lattice in a random magnetic field. *Physical Review B*, **1993**, 47, 9561-9565 3.3 76
- 24 Phase diagram of the  $S=1/2$  quantum spin chain with bond alternation. *Physical Review B*, **1993**, 48, 9555-9563 3.3 41
- 23 Electron spectral function of an interacting two dimensional electron gas in a strong magnetic field. *Physical Review Letters*, **1993**, 71, 424-427 7.4 53
- 22 Spin liquid ground state of the half-filled Kondo lattice in one dimension. *Physica B: Condensed Matter*, **1993**, 186-188, 882-884 2.8 2
- 21 Exactly Solvable Model of Correlated Lattice Electrons in Any Dimensions. *Journal of the Physical Society of Japan*, **1992**, 61, 2056-2069 1.5 22
- 20 Spin-liquid ground state of the half-filled Kondo lattice in one dimension. *Physical Review B*, **1992**, 46, 3175-3178 3.3 123
- 19 Multisheet configuration space and fractional quantum statistics. *Physical Review B*, **1992**, 45, 11161-11165 3.3

18	String correlation functions in the anisotropic spin-1 Heisenberg chain. <i>Physical Review B</i> , <b>1992</b> , 46, 13914-13918	4-5	18
17	String Correlation of Quantum Antiferromagnetic Spin Chains with $S=1$ and 2. <i>Journal of the Physical Society of Japan</i> , <b>1992</b> , 61, 3856-3860	1.5	22
16	Exactly solvable model for correlated lattice fermions in any dimensions. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 1539-1540	1.3	4
15	Numerical study of the hidden antiferromagnetic order in the Haldane phase. <i>Physical Review B</i> , <b>1991</b> , 44, 11789-11794	3.3	56
14	Braid group and anyons on a cylinder. <i>Physical Review B</i> , <b>1991</b> , 43, 2661-2677	3.3	24
13	Gauge invariance of fractionally charged quasiparticles and hidden topological $Z_n$ symmetry. <i>Physical Review Letters</i> , <b>1991</b> , 66, 659-662	7.4	28
12	Anyons on a torus: Braid group, Aharonov-Bohm period, and numerical study. <i>Physical Review B</i> , <b>1991</b> , 43, 10761-10768	3.3	13
11	Peierls stabilization of magnetic-flux states of two-dimensional lattice electrons. <i>Physical Review B</i> , <b>1990</b> , 41, 9527-9529	3.3	19
10	Energy spectrum and the quantum Hall effect on the square lattice with next-nearest-neighbor hopping. <i>Physical Review B</i> , <b>1990</b> , 42, 8282-8294	3.3	142
9	Stabilization of flux states on two-dimensional lattices. <i>Physical Review B</i> , <b>1990</b> , 41, 9174-9182	3.3	88
8	Spin Wave Theory of the Two-Dimensional Heisenberg Antiferromagnet Coupled with Localized Holes. <i>Journal of the Physical Society of Japan</i> , <b>1989</b> , 58, 978-997	1.5	52
7	Numerical Studies on the Hubbard Model and the $J$ -Model in One- and Two-Dimensions. <i>Journal of the Physical Society of Japan</i> , <b>1989</b> , 58, 3752-3780	1.5	207
6	Pairing of Fermions Coupled with Spin-1/2 Heisenberg System Exact Diagonalization Study for Mechanism of High- $T_c$ Superconductivity. <i>Journal of the Physical Society of Japan</i> , <b>1989</b> , 58, 1347-1371	1.5	30
5	Spin polarized electron energy band of orthorhombic $(La_2CuO_4)_2$ . <i>Solid State Communications</i> , <b>1988</b> , 65, 1271-1274	1.6	6
4	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> , <b>1988</b> , 37, 1280-1286	3.3	24
3	NUMERICAL ANALYSIS OF COUPLED SPIN-FERMION MODEL (PAIRING MECHANISM THROUGH EXTENDED KONDO SINGLET). <i>International Journal of Modern Physics B</i> , <b>1988</b> , 02, 959-973	1.1	12
2	Magnetic Mechanism of Superconductivity in Coupled Spin-Fermion Systems. <i>Journal of the Physical Society of Japan</i> , <b>1988</b> , 57, 2901-2904	1.5	34
1	Electronic Structure of High- $T_c$ Superconducting Layered Perovskite La-Cu-O and Y-Ba-Cu-O by LMO Method. <i>Japanese Journal of Applied Physics</i> , <b>1987</b> , 26, L716-L718	1.4	51

