

# Tomonari Mizoguchi

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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

36

papers

337

citations

12

h-index

17

g-index

43

ext. papers

609

ext. citations

3.3

avg, IF

4.82

L-index

#	Paper	IF	Citations
36	Non-Hermitian topology in rock-paper-scissors games.. <i>Scientific Reports</i> , <b>2022</b> , 12, 560	4.9	1
35	Bulk-edge correspondence in two-dimensional topological semimetals: A transfer matrix study of antichiral edge modes. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	2
34	Square-root topological phase with time-reversal and particle-hole symmetry. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
33	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
32	Detecting Bulk Topology of Quadrupolar Phase from Quench Dynamics. <i>Physical Review Letters</i> , <b>2021</b> , 126, 016802	7.4	1
31	Square-root topological semimetals. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	11
30	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
29	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
28	Field-Selective Classical Spin Liquid and Magnetization Plateaus on Kagome Lattice. <i>Journal of the Physical Society of Japan</i> , <b>2020</b> , 89, 053708	1.5	1
27	Systematic construction of topological flat-band models by molecular-orbital representation. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	9
26	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
25	Flat band quantum scar. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	17
24	ZQ Berry phase for higher-order symmetry-protected topological phases. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	22
23	Mirror skin effect and its electric circuit simulation. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	45
22	Square-root higher-order topological insulator on a decorated honeycomb lattice. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	16
21	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
20	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

19	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
18	Oriented propagation of magnetization due to chiral edge modes in Kitaev-type models. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	3
17	Dzyaloshinskii-Moriya Interaction between Multipolar Moments in 5d1 Systems. <i>Journal of the Physical Society of Japan</i> , <b>2020</b> , 89, 074702	1.5	1
16	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
15	Flat-band engineering in tight-binding models: Beyond the nearest-neighbor hopping. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	14
14	Majorana edge magnetization in the Kitaev honeycomb model. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	7
13	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
12	Sequential quantum phase transitions in $J_1J_2$ 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
11	Trimer classical spin liquid from interacting fractional charges. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	2
10	Molecular-orbital representation of generic flat-band models. <i>Europhysics Letters</i> , <b>2019</b> , 127, 47001	1.6	12
9	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
8	Nonsymmorphic-Symmetry-Protected Topological Magnons in Three-Dimensional Kitaev Materials. <i>Physical Review Letters</i> , <b>2019</b> , 123, 227202	7.4	3
7	Magnetic clustering, half-moons, and shadow pinch points as signals of a proximate Coulomb phase in frustrated Heisenberg magnets. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
6	Clustering of Topological Charges in a Kagome Classical Spin Liquid. <i>Physical Review Letters</i> , <b>2017</b> , 119, 077207	7.4	11
5	Quantum spin liquid and magnetic order in a two-dimensional nonsymmorphic lattice: Considering the distorted kagome lattice of volborthite. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
4	Generic model for the hyperkagome iridate $\text{Na}_4\text{Ir}_3\text{O}_8$ in the local-moment regime. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
3	Controlling spin Hall effect by using a band anticrossing and nonmagnetic impurity scattering. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	7
2	Meissner Effect of Dirac Electrons in Superconducting State Due to Inter-Band Effect. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 084704	1.5	7

1 Meissner effect of Dirac electron in superconducting state. *Journal of Physics: Conference Series*,  
**2015**, 603, 012004

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