

Tomonari Mizoguchi

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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	Mirror skin effect and its electric circuit simulation. <i>Physical Review Research</i> , 2020 , 2,	3.9	45
35	Phase diagram of a disordered higher-order topological insulator: A machine learning study. <i>Physical Review B</i> , 2019 , 99,	3.3	42
34	Higher-order topological phases in a spring-mass model on a breathing kagome lattice. <i>Physical Review B</i> , 2020 , 101,	3.3	25
33	ZQ Berry phase for higher-order symmetry-protected topological phases. <i>Physical Review Research</i> , 2020 , 2,	3.9	22
32	Flat band quantum scar. <i>Physical Review B</i> , 2020 , 102,	3.3	17
31	Square-root higher-order topological insulator on a decorated honeycomb lattice. <i>Physical Review A</i> , 2020 , 102,	2.6	16
30	Flat-band engineering in tight-binding models: Beyond the nearest-neighbor hopping. <i>Physical Review B</i> , 2019 , 99,	3.3	14
29	Generic model for the hyperkagome iridate Na ₄ Ir ₃ O ₈ in the local-moment regime. <i>Physical Review B</i> , 2016 , 94,	3.3	14
28	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
27	Molecular-orbital representation of generic flat-band models. <i>Europhysics Letters</i> , 2019 , 127, 47001	1.6	12
26	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
25	Magnetic clustering, half-moons, and shadow pinch points as signals of a proximate Coulomb phase in frustrated Heisenberg magnets. <i>Physical Review B</i> , 2018 , 98,	3.3	12
24	Clustering of Topological Charges in a Kagome Classical Spin Liquid. <i>Physical Review Letters</i> , 2017 , 119, 077207	7.4	11
23	Square-root topological semimetals. <i>Physical Review B</i> , 2021 , 103,	3.3	11
22	Systematic construction of topological flat-band models by molecular-orbital representation. <i>Physical Review B</i> , 2020 , 101,	3.3	9
21	Majorana edge magnetization in the Kitaev honeycomb model. <i>Physical Review B</i> , 2019 , 99,	3.3	7
20	Meissner Effect of Dirac Electrons in Superconducting State Due to Inter-Band Effect. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 084704	1.5	7

19	Controlling spin Hall effect by using a band anticrossing and nonmagnetic impurity scattering. <i>Physical Review B</i> , 2016 , 93,	3.3	7
18	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
17	Quantum spin liquid and magnetic order in a two-dimensional nonsymmorphic lattice: Considering the distorted kagome lattice of volborthite. <i>Physical Review B</i> , 2017 , 96,	3.3	4
16	Interaction-induced doublons and embedded topological subspace in a complete flat-band system. <i>Physical Review A</i> , 2020 , 102,	2.6	4
15	Oriented propagation of magnetization due to chiral edge modes in Kitaev-type models. <i>Physical Review B</i> , 2020 , 101,	3.3	3
14	Square-root topological phase with time-reversal and particle-hole symmetry. <i>Physical Review B</i> , 2021 , 103,	3.3	3
13	Nonsymmorphic-Symmetry-Protected Topological Magnons in Three-Dimensional Kitaev Materials. <i>Physical Review Letters</i> , 2019 , 123, 227202	7.4	3
12	Trimer classical spin liquid from interacting fractional charges. <i>Physical Review B</i> , 2019 , 100,	3.3	2
11	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
10	Bulk-edge correspondence in two-dimensional topological semimetals: A transfer matrix study of antichiral edge modes. <i>Physical Review B</i> , 2021 , 103,	3.3	2
9	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
8	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
7	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
6	Field-Selective Classical Spin Liquid and Magnetization Plateaus on Kagome Lattice. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 053708	1.5	1
5	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> , 2019 , 100,	3.3	1
4	Meissner effect of Dirac electron in superconducting state. <i>Journal of Physics: Conference Series</i> , 2015 , 603, 012004	0.3	1
3	Non-Hermitian topology in rock-paper-scissors games.. <i>Scientific Reports</i> , 2022 , 12, 560	4.9	1
2	Dzyaloshinskii-Moriya Interaction between Multipolar Moments in 5d1 Systems. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 074702	1.5	1

1 Detecting Bulk Topology of Quadrupolar Phase from Quench Dynamics. *Physical Review Letters*,
2021, 126, 016802

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