

Takahiro Fukui

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

505
citations

840776

11
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	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, .	3.2	176
2	Spherical topological insulator. <i>Physical Review B</i> , 2012, 86, .	3.2	52
3	Bulk-Edge Correspondence for Chern Topological Phases: A Viewpoint from a Generalized Index Theorem. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114602.	1.6	50
4	Entanglement polarization for the topological quadrupole phase. <i>Physical Review B</i> , 2018, 98, .	3.2	34
5	Topological Stability of Majorana Zero Modes in Superconductor-Topological Insulator Systems. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 033701.	1.6	26
6	Index theorem and Majorana zero modes along a non-Abelian vortex in a color superconductor. <i>Physical Review D</i> , 2011, 84, .	4.7	24
7	Topological Meaning of Z ₂ Numbers in Time Reversal Invariant Systems. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 123705.	1.6	21
8	Entanglement Chern Number for an Extensive Partition of a Topological Ground State. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 113705.	1.6	20
9	Characterizing weak topological properties: Berry phase point of view. <i>Physical Review B</i> , 2014, 90, .	3.2	17
10	Symmetry Protected Weak Topological Phases in a Superlattice. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 073708.	1.6	13
11	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.	1.6	11
12	Adiabatic Ground-State Properties of Spin Chains with Twisted Boundary Conditions. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 2824-2829.	1.6	10
13	Theory of edge states based on the Hermiticity of tight-binding Hamiltonian operators. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
14	Index theorem for topological heterostructure systems. <i>Physical Review B</i> , 2012, 86, .	3.2	9
15	Edge states of a diffusion equation in one dimension: Rapid heat conduction to the heat bath. <i>Physical Review E</i> , 2022, 105, 024137.	2.1	8
16	Quantization of Non-Abelian Berry Phase for Time-Reversal-Invariant Systems. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 093001.	1.6	6
17	Entanglement Chern Number of the Kane-Mele Model with Ferromagnetism. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 043706.	1.6	5
18	Entanglement Chern number for three-dimensional topological insulators: Characterization by Weyl points of entanglement Hamiltonians. <i>Physical Review B</i> , 2017, 96, .	3.2	5

#	ARTICLE	IF	CITATIONS
19	Streda Formula for the Hofstadterâ€™Wilsonâ€™Dirac Model in Two and Four Dimensions. Journal of the Physical Society of Japan, 2016, 85, 124709.	1.6	3
20	Majorana Fermions and Z ₂ Vortices on a Square Lattice. Journal of the Physical Society of Japan, 2011, 80, 123708.	1.6	2
21	A Spin Pump Characterized by Entanglement Chern Numbers. Journal of the Physical Society of Japan, 2016, 85, 083703.	1.6	2
22	MoirÃ© Landau levels of a C_4 -symmetric twisted bilayer system in the absence of a magnetic field. Physical Review B, 2022, 105, .	1.6	0
23	Diophantine Equation for the Riceâ€™Mele Model: Topological Aspect of Filling Numbers and Associated Spatial Pump. Journal of the Physical Society of Japan, 2021, 90, 093702.	1.6	0