

Ken Imura

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6622785/publications.pdf>

Version: 2024-02-01

69
papers

1,353
citations

361388

20
h-index

361001

35
g-index

70
all docs

70
docs citations

70
times ranked

1080
citing authors

#	ARTICLE	IF	CITATIONS
1	Density of States Scaling at the Semimetal to Metal Transition in Three Dimensional Topological Insulators. Physical Review Letters, 2014, 112, 016402.	7.8	145
2	Disordered Weak and Strong Topological Insulators. Physical Review Letters, 2013, 110, 236803.	7.8	97
3	Generalized bulk-edge correspondence for non-Hermitian topological systems. Physical Review B, 2019, 100, .	3.2	96
4	Noncommutative geometry and non-Abelian Berry phase in the wave-packet dynamics of Bloch electrons. Nuclear Physics B, 2005, 720, 399-435.	2.5	65
5	Disorder-Induced Multiple Transition Involving Z ₂ Topological Insulator. Journal of the Physical Society of Japan, 2011, 80, 053703.	1.6	52
6	Spherical topological insulator. Physical Review B, 2012, 86, .	3.2	52
7	Weak topological insulator with protected gapless helical states. Physical Review B, 2011, 84, .	3.2	48
8	Finite-size energy gap in weak and strong topological insulators. Physical Review B, 2012, 86, .	3.2	42
9	Zigzag edge modes in a Z_2 topological insulator: Reentrance and completely flat spectrum. Physical Review B, 2010, 82, .	3.2	38
10	Spin-orbit effects in a graphene bipolar pn junction. Europhysics Letters, 2009, 87, 47005.	2.0	38
11	Weak localization properties of the doped Z_2 topological insulator. Physical Review B, 2009, 80, .	3.2	38
12	Spin Berry phase in anisotropic topological insulators. Physical Review B, 2011, 84, .	3.2	37
13	Perfectly conducting channel on the dark surface of weak topological insulators. Physical Review B, 2013, 88, .	3.2	34
14	Conductance of one-dimensional quantum wires. Physical Review B, 2002, 66, .	3.2	33
15	Analytic Theory of Edge Modes in Topological Insulators. Journal of the Physical Society of Japan, 2010, 79, 124709.	1.6	30
16	Criticality of the metal-topological insulator transition driven by disorder. Physical Review B, 2013, 87, .	3.2	30
17	Quantum Hall effect in bilayer and multilayer graphene with finite Fermi energy. Physical Review B, 2008, 78, .	3.2	29
18	Spin Berry phase in the Fermi-arc states. Physical Review B, 2011, 84, .	3.2	24

#	ARTICLE	IF	CITATIONS
19	Tomonaga-Luttinger liquid with reservoirs in a multiterminal geometry. <i>Physical Review B</i> , 2003, 68, .	3.2	23
20	Electron-electron interactions in a one-dimensional quantum-wire spin filter. <i>Physical Review B</i> , 2005, 72, .	3.2	20
21	Unified Description of Dirac Electrons on a Curved Surface of Topological Insulators. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 074712.	1.6	20
22	Full counting statistics for transport through a molecular quantum dot magnet: Incoherent tunneling regime. <i>Physical Review B</i> , 2007, 75, .	3.2	19
23	Interfacial charge and spin transport in Z_2 topological insulators. <i>Physical Review B</i> , 2011, 83, .	3.2	19
24	Short Ballistic Josephson Coupling in Planar Graphene Junctions with Inhomogeneous Carrier Doping. <i>Physical Review Letters</i> , 2018, 120, 077701.	7.8	19
25	Unusual wave-packet spreading and entanglement dynamics in non-Hermitian disordered many-body systems. <i>Physical Review B</i> , 2022, 105, .	3.2	19
26	Characterizing weak topological properties: Berry phase point of view. <i>Physical Review B</i> , 2014, 90, .	3.2	17
27	One-dimensional topological insulator: A model for studying finite-size effects in topological insulator thin films. <i>Physical Review B</i> , 2014, 89, .	3.2	17
28	Dimensional crossover of transport characteristics in topological insulator nanofilms. <i>Physical Review B</i> , 2015, 92, .	3.2	17
29	Comparative study of Weyl semimetal and topological/Chern insulators: Thin-film point of view. <i>Physical Review B</i> , 2016, 94, .	3.2	17
30	Generalized Bloch band theory for non-Hermitian bulk-boundary correspondence. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	6.6	16
31	Quantum transport in two-channel fractional quantum Hall edges. <i>Physical Review B</i> , 1997, 55, 7690-7701.	3.2	15
32	Numerical study of transport through a single impurity in a spinful Tomonaga-Luttinger liquid. <i>Physical Review B</i> , 2008, 77, .	3.2	15
33	Effects of long-range Coulomb interaction on the quantum transport in fractional quantum Hall edges. <i>Solid State Communications</i> , 1997, 103, 663-668.	1.9	13
34	Symmetry Protected Weak Topological Phases in a Superlattice. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 073708.	1.6	13
35	Anti-localization of graphene under the substrate electric field. <i>Europhysics Letters</i> , 2010, 89, 17009.	2.0	12
36	Quasiclassical Theory of the Josephson Effect in Ballistic Graphene Junctions. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 094707.	1.6	12

#	ARTICLE	IF	CITATIONS
37	Josephson Current through a Planar Junction of Graphene. Journal of the Physical Society of Japan, 2011, 80, 043702.	1.6	11
38	Dirac Electrons on a Sharply Edged Surface of Topological Insulators. Journal of the Physical Society of Japan, 2012, 81, 093705.	1.6	11
39	Flat edge modes of graphene and of Z ₂ topological insulator. Nanoscale Research Letters, 2011, 6, 358.	5.7	9
40	Non-Hermitian Fabry-Pérot resonances in a μ -symmetric system. Physical Review Research, 2021, 3, .	3.6	9
41	Protection of the surface states in topological insulators: Berry phase perspective. Physical Review B, 2013, 87, .	3.2	8
42	Multifractality and Fock-space localization in many-body localized states: One-particle density matrix perspective. Physical Review B, 2021, 103, .	3.2	8
43	Quantum transport in $\nu = 2$ spin-singlet quantum Hall edges. Physical Review B, 1998, 57, R6826-R6829.	3.2	7
44	Colossal spin fluctuations in a molecular quantum dot magnet with ferromagnetic electrodes. Physical Review B, 2008, 78, .	3.2	7
45	Finite-size effects in cylindrical topological insulators. New Journal of Physics, 2020, 22, 063042.	2.9	7
46	Tunneling in paired fractional quantum Hall states: Conductance and Andreev reflection of non-abelions. Solid State Communications, 1998, 107, 497-502.	1.9	5
47	Manipulating quantum channels in weak topological insulator nanoarchitectures. Physical Review B, 2015, 92, .	3.2	5
48	Theory of suppressed shot noise at $\nu = 2/(2p \pm 1)$. Europhysics Letters, 1999, 47, 83-89.	2.0	4
49	Characterization of two-dimensional fermionic insulating states. Physical Review B, 2006, 74, .	3.2	4
50	Bulk-edge correspondence in topological transport and pumping. Journal of Physics: Conference Series, 2018, 969, 012133.	0.4	4
51	Tunneling into fractional quantum Hall edges. Europhysics Letters, 1999, 47, 233-239.	2.0	3
52	Klein tunneling in graphene under substrate electric field. Physics Procedia, 2010, 3, 1243-1248.	1.2	3
53	Majorana bound state of a Bogoliubov-de Gennes Dirac Hamiltonian in arbitrary dimensions. Nuclear Physics B, 2012, 854, 306-320.	2.5	3
54	PERFECTLY CONDUCTING CHANNEL AND ITS ROBUSTNESS IN DISORDERED CARBON NANOSTRUCTURES. International Journal of Modern Physics Conference Series, 2012, 11, 157-162.	0.7	2

#	ARTICLE	IF	CITATIONS
55	Topological insulator "nanotubes" Journal of Physics: Conference Series, 2012, 400, 042021.	0.4	2
56	Z2Topological Anderson Insulator. Journal of Physics: Conference Series, 2012, 400, 042070.	0.4	2
57	Engineering Dirac electrons emergent on the surface of a topological insulator. Science and Technology of Advanced Materials, 2015, 16, 014403.	6.1	2
58	Plateau transitions in fractional quantum Hall liquids. European Physical Journal B, 2000, 15, 155-160.	1.5	1
59	Wave-packet dynamics of Bloch electrons"Role of Berry phase. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 637-641.	2.7	1
60	Weak localization properties of graphene with intrinsic and Rashba spin-orbit couplings. Physics Procedia, 2010, 3, 1249-1254.	1.2	1
61	Stationary Josephson effect in ballistic graphene junctions: effects of inhomogeneous carrier density. Journal of Physics: Conference Series, 2012, 400, 042057.	0.4	1
62	Quantum transport in fractional quantum Hall edges. Physica B: Condensed Matter, 1998, 249-251, 420-425.	2.7	0
63	Quantum transport in spin-singlet $\hat{1}/2=2/3$ edges. Physica B: Condensed Matter, 1998, 256-258, 125-129.	2.7	0
64	Discrete thermodynamic Bethe ansatz. Nuclear Physics B, 2001, 608, 577-590.	2.5	0
65	Disorder Operator In 2D Insulating States. AIP Conference Proceedings, 2006, , .	0.4	0
66	Topological currents in ferromagnets and related systems - from the viewpoint of wave-packet dynamics. Physica Status Solidi (B): Basic Research, 2006, 243, 174-178.	1.5	0
67	Full counting statistics for molecular spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 375-378.	2.7	0
68	Z[sub 2]-classification of localization properties in graphene. , 2012, , .		0
69	Spin-orbit effects in graphene p - n junction. , 2012, , .		0