

# Ken Imura

## List of Publications by Year in descending order

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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	Unusual wave-packet spreading and entanglement dynamics in non-Hermitian disordered many-body systems. <i>Physical Review B</i> , 2022, 105, .	3.2	19
2	Non-Hermitian Fabry-Pérot resonances in a $\mu$ -symmetric system. <i>Physical Review Research</i> , 2021, 3, .	3.2	19
3	Multifractality and Fock-space localization in many-body localized states: One-particle density matrix perspective. <i>Physical Review B</i> , 2021, 103, .	3.2	8
4	Generalized Bloch band theory for non-Hermitian bulk-boundary correspondence. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	6.6	16
5	Finite-size effects in cylindrical topological insulators. <i>New Journal of Physics</i> , 2020, 22, 063042.	2.9	7
6	Generalized bulk-edge correspondence for non-Hermitian topological systems. <i>Physical Review B</i> , 2019, 100, .	3.2	96
7	Short Ballistic Josephson Coupling in Planar Graphene Junctions with Inhomogeneous Carrier Doping. <i>Physical Review Letters</i> , 2018, 120, 077701.	7.8	19
8	Bulk-edge correspondence in topological transport and pumping. <i>Journal of Physics: Conference Series</i> , 2018, 969, 012133.	0.4	4
9	Comparative study of Weyl semimetal and topological/Chern insulators: Thin-film point of view. <i>Physical Review B</i> , 2016, 94, .	3.2	17
10	Manipulating quantum channels in weak topological insulator nanoarchitectures. <i>Physical Review B</i> , 2015, 92, .	3.2	5
11	Dimensional crossover of transport characteristics in topological insulator nanofilms. <i>Physical Review B</i> , 2015, 92, .	3.2	17
12	Engineering Dirac electrons emergent on the surface of a topological insulator. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014403.	6.1	2
13	Characterizing weak topological properties: Berry phase point of view. <i>Physical Review B</i> , 2014, 90, .	3.2	17
14	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
15	Density of States Scaling at the Semimetal to Metal Transition in Three Dimensional Topological Insulators. <i>Physical Review Letters</i> , 2014, 112, 016402.	7.8	145
16	Criticality of the metal-topological insulator transition driven by disorder. <i>Physical Review B</i> , 2013, 87, .	3.2	30
17	Protection of the surface states in topological insulators: Berry phase perspective. <i>Physical Review B</i> , 2013, 87, .	3.2	8
18	Disordered Weak and Strong Topological Insulators. <i>Physical Review Letters</i> , 2013, 110, 236803.	7.8	97

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19	Perfectly conducting channel on the dark surface of weak topological insulators. Physical Review B, 2013, 88, .	3.2	34
20	Unified Description of Dirac Electrons on a Curved Surface of Topological Insulators. Journal of the Physical Society of Japan, 2013, 82, 074712.	1.6	20
21	Symmetry Protected Weak Topological Phases in a Superlattice. Journal of the Physical Society of Japan, 2013, 82, 073708.	1.6	13
22	Quasiclassical Theory of the Josephson Effect in Ballistic Graphene Junctions. Journal of the Physical Society of Japan, 2012, 81, 094707.	1.6	12
23	PERFECTLY CONDUCTING CHANNEL AND ITS ROBUSTNESS IN DISORDERED CARBON NANOSTRUCTURES. International Journal of Modern Physics Conference Series, 2012, 11, 157-162.	0.7	2
24	Z <sub>2</sub> -classification of localization properties in graphene. , 2012, , .		0
25	Stationary Josephson effect in ballistic graphene junctions: effects of inhomogeneous carrier density. Journal of Physics: Conference Series, 2012, 400, 042057.	0.4	1
26	Topological insulator "nanotubes". Journal of Physics: Conference Series, 2012, 400, 042021.	0.4	2
27	Z <sub>2</sub> Topological Anderson Insulator. Journal of Physics: Conference Series, 2012, 400, 042070.	0.4	2
28	Spin-orbit effects in graphene p - n junction. , 2012, , .		0
29	Finite-size energy gap in weak and strong topological insulators. Physical Review B, 2012, 86, .	3.2	42
30	Dirac Electrons on a Sharply Edged Surface of Topological Insulators. Journal of the Physical Society of Japan, 2012, 81, 093705.	1.6	11
31	Majorana bound state of a Bogoliubov"de Gennes"Dirac Hamiltonian in arbitrary dimensions. Nuclear Physics B, 2012, 854, 306-320.	2.5	3
32	Spherical topological insulator. Physical Review B, 2012, 86, .	3.2	52
33	Josephson Current through a Planar Junction of Graphene. Journal of the Physical Society of Japan, 2011, 80, 043702.	1.6	11
34	Flat edge modes of graphene and of Z <sub>2</sub> topological insulator. Nanoscale Research Letters, 2011, 6, 358.	5.7	9
35	Spin Berry phase in anisotropic topological insulators. Physical Review B, 2011, 84, .	3.2	37
36	Interfacial charge and spin transport in $Z_2$ topological insulators. Physical Review B, 2011, 83, .	3.2	19

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37	Weak topological insulator with protected gapless helical states. Physical Review B, 2011, 84, .	3.2	48
38	Spin Berry phase in the Fermi-arc states. Physical Review B, 2011, 84, .	3.2	24
39	Disorder-Induced Multiple Transition Involving Z2 Topological Insulator. Journal of the Physical Society of Japan, 2011, 80, 053703.	1.6	52
40	Anti-localization of graphene under the substrate electric field. Europhysics Letters, 2010, 89, 17009.	2.0	12
41	Klein tunneling in graphene under substrate electric field. Physics Procedia, 2010, 3, 1243-1248.	1.2	3
42	Weak localization properties of graphene with intrinsic and Rashba spin-orbit couplings. Physics Procedia, 2010, 3, 1249-1254.	1.2	1
43	Analytic Theory of Edge Modes in Topological Insulators. Journal of the Physical Society of Japan, 2010, 79, 124709.	1.6	30
44	Zigzag edge modes in a $Z_2$ topological insulator: Reentrance and completely flat spectrum. Physical Review B, 2010, 82, .	3.2	38
45	Spin-orbit effects in a graphene bipolar pn junction. Europhysics Letters, 2009, 87, 47005.	2.0	38
46	Weak localization properties of the doped $Z_2$ topological insulator. Physical Review B, 2009, 80, .	3.2	38
47	Quantum Hall effect in bilayer and multilayer graphene with finite Fermi energy. Physical Review B, 2008, 78, .	3.2	29
48	Numerical study of transport through a single impurity in a spinful Tomonaga-Luttinger liquid. Physical Review B, 2008, 77, .	3.2	15
49	Colossal spin fluctuations in a molecular quantum dot magnet with ferromagnetic electrodes. Physical Review B, 2008, 78, .	3.2	7
50	Full counting statistics for transport through a molecular quantum dot magnet: Incoherent tunneling regime. Physical Review B, 2007, 75, .	3.2	19
51	Full counting statistics for molecular spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 375-378.	2.7	0
52	Disorder Operator In 2D Insulating States. AIP Conference Proceedings, 2006, , .	0.4	0
53	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
54	Characterization of two-dimensional fermionic insulating states. Physical Review B, 2006, 74, .	3.2	4

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55	Wave-packet dynamics of Bloch electrons – Role of Berry phase. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 637-641.	2.7	1
56	Electron-electron interactions in a one-dimensional quantum-wire spin filter. Physical Review B, 2005, 72, .	3.2	20
57	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
58	Tomonaga-Luttinger liquid with reservoirs in a multiterminal geometry. Physical Review B, 2003, 68, .	3.2	23
59	Conductance of one-dimensional quantum wires. Physical Review B, 2002, 66, .	3.2	33
60	Discrete thermodynamic Bethe ansatz. Nuclear Physics B, 2001, 608, 577-590.	2.5	0
61	Plateau transitions in fractional quantum Hall liquids. European Physical Journal B, 2000, 15, 155-160.	1.5	1
62	Theory of suppressed shot noise at $\hat{\nu} = 2/(2p \pm 1)$ . Europhysics Letters, 1999, 47, 83-89.	2.0	4
63	Tunneling into fractional quantum Hall edges. Europhysics Letters, 1999, 47, 233-239.	2.0	3
64	Tunneling in paired fractional quantum Hall states: Conductance and Andreev reflection of non-abelions. Solid State Communications, 1998, 107, 497-502.	1.9	5
65	Quantum transport in fractional quantum Hall edges. Physica B: Condensed Matter, 1998, 249-251, 420-425.	2.7	0
66	Quantum transport in spin-singlet $\hat{\nu} = 2/3$ edges. Physica B: Condensed Matter, 1998, 256-258, 125-129.	2.7	0
67	Quantum transport in $\hat{\nu} = 2/3$ spin-singlet quantum Hall edges. Physical Review B, 1998, 57, R6826-R6829.	3.2	7
68	Quantum transport in two-channel fractional quantum Hall edges. Physical Review B, 1997, 55, 7690-7701.	3.2	15
69	Effects of long-range Coulomb interaction on the quantum transport in fractional quantum Hall edges. Solid State Communications, 1997, 103, 663-668.	1.9	13