

# Kouji Segawa

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4135421/kouji-segawa-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

105  
papers

8,657  
citations

46  
h-index

92  
g-index

109  
ext. papers

9,597  
ext. citations

5.5  
avg, IF

5.92  
L-index

#	Paper	IF	Citations
105	Experimental realization of a topological crystalline insulator in SnTe. <i>Nature Physics</i> , <b>2012</b> , 8, 800-803	16.2	661
104	Large bulk resistivity and surface quantum oscillations in the topological insulator Bi <sub>2</sub> Te <sub>2</sub> Se. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	527
103	Topological Superconductivity in Cu(x)Bi(2)Se(3). <i>Physical Review Letters</i> , <b>2011</b> , 107, 217001	7.4	493
102	Electrical resistivity anisotropy from self-organized one dimensionality in high-temperature superconductors. <i>Physical Review Letters</i> , <b>2002</b> , 88, 137005	7.4	362
101	Manifestation of topological protection in transport properties of epitaxial Bi <sub>2</sub> Se <sub>3</sub> thin films. <i>Physical Review Letters</i> , <b>2012</b> , 109, 066803	7.4	297
100	Observation of dirac holes and electrons in a topological insulator. <i>Physical Review Letters</i> , <b>2011</b> , 107, 016801	7.4	270
99	Tunable Dirac cone in the topological insulator Bi(2-x)Sb(x)Te(3-y)Se(y). <i>Nature Communications</i> , <b>2012</b> , 3, 636	17.4	261
98	Bulk superconducting phase with a full energy gap in the doped topological insulator Cu(x)Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 106, 127004	7.4	260
97	Electronic phase diagram of high-T <sub>c</sub> cuprate superconductors from a mapping of the in-plane resistivity curvature. <i>Physical Review Letters</i> , <b>2004</b> , 93, 267001	7.4	260
96	Mobility of the doped holes and the antiferromagnetic correlations in underdoped high- T <sub>c</sub> cuprates. <i>Physical Review Letters</i> , <b>2001</b> , 87, 017001	7.4	235
95	Spin-electricity conversion induced by spin injection into topological insulators. <i>Physical Review Letters</i> , <b>2014</b> , 113, 196601	7.4	228
94	Optimizing Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> solid solutions to approach the intrinsic topological insulator regime. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	217
93	Spin-rotation symmetry breaking in the superconducting state of CuxBi <sub>2</sub> Se <sub>3</sub> . <i>Nature Physics</i> , <b>2016</b> , 12, 852-854	16.2	191
92	Unexpected mass acquisition of Dirac fermions at the quantum phase transition of a topological insulator. <i>Nature Physics</i> , <b>2011</b> , 7, 840-844	16.2	189
91	Direct evidence for the dirac-cone topological surface states in the ternary chalcogenide TlBiSe <sub>3</sub> . <i>Physical Review Letters</i> , <b>2010</b> , 105, 136802	7.4	177
90	Angular-dependent oscillations of the magnetoresistance in Bi <sub>2</sub> Se <sub>3</sub> due to the three-dimensional bulk Fermi surface. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	170
89	Thermodynamic evidence for nematic superconductivity in CuxBi <sub>2</sub> Se <sub>3</sub> . <i>Nature Physics</i> , <b>2017</b> , 13, 123-126	16.2	163

88	Evolution of the Hall coefficient and the peculiar electronic structure of the cuprate superconductors. <i>Physical Review Letters</i> , <b>2004</b> , 92, 197001	7.4	160
87	Direct measurement of the out-of-plane spin texture in the Dirac-cone surface state of a topological insulator. <i>Physical Review Letters</i> , <b>2011</b> , 106, 216803	7.4	158
86	Specific-heat evidence for strong electron correlations in the thermoelectric material (Na,Ca)Co <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>1999</b> , 60, 10580-10583	3.3	154
85	Odd-parity pairing and topological superconductivity in a strongly spin-orbit coupled semiconductor. <i>Physical Review Letters</i> , <b>2012</b> , 109, 217004	7.4	152
84	Electrical detection of the spin polarization due to charge flow in the surface state of the topological insulator Bi(1.5)Sb(0.5)Te(1.7)Se(1.3). <i>Nano Letters</i> , <b>2014</b> , 14, 6226-30	11.5	121
83	Tunability of the k-space location of the Dirac cones in the topological crystalline insulator Pb <sub>1-x</sub> Sn <sub>x</sub> Te. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	119
82	Electrodynamics of the nodal metal state in weakly doped high-T <sub>c</sub> cuprates. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	113
81	Large linear magnetoresistance in the Dirac semimetal TlBiSSe. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	109
80	Carrier concentrations in Bi <sub>2</sub> Sr <sub>2-x</sub> LazCuO <sub>6+x</sub> single crystals and their relation to the Hall coefficient and thermopower. <i>Physical Review B</i> , <b>2000</b> , 61, R14956-R14959	3.3	109
79	Fermi level tuning and a large activation gap achieved in the topological insulator Bi <sub>2</sub> Te <sub>2</sub> Se by Sn doping. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	106
78	Constant effective mass across the phase diagram of high-T <sub>c</sub> cuprates. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	98
77	Electrochemical synthesis and superconducting phase diagram of CuxBi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	97
76	Topological surface transport in epitaxial SnTe thin films grown on Bi <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	90
75	Magnetoresistance Anomalies in Antiferromagnetic YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> : Fingerprints of Charged Stripes. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2813-2816	7.4	85
74	Unusual nature of fully gapped superconductivity in In-doped SnTe. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	82
73	Magnetoresistance of untwinned YBa(2)Cu(3)O(y) single crystals in a wide range of doping: anomalous hole-doping dependence of the coherence length. <i>Physical Review Letters</i> , <b>2002</b> , 88, 167005	7.4	81
72	Direct observation of nonequivalent Fermi-arc states of opposite surfaces in the noncentrosymmetric Weyl semimetal NbP. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	78
71	Two types of Dirac-cone surface states on the (111) surface of the topological crystalline insulator SnTe. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	76

70	Manipulation of topological states and the bulk band gap using natural heterostructures of a topological insulator. <i>Physical Review Letters</i> , <b>2012</b> , 109, 236804	7-4	72
69	Achieving surface quantum oscillations in topological insulator thin films of Bi <sub>2</sub> Se <sub>3</sub> . <i>Advanced Materials</i> , <b>2012</b> , 24, 5581-5	2-4	71
68	Observations of two-dimensional quantum oscillations and ambipolar transport in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> achieved by Cd doping. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	71
67	Oscillatory angular dependence of the magnetoresistance in a topological insulator Bi <sub>1-x</sub> Sb <sub>x</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	68
66	Metal-to-insulator crossover in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> probed by low-temperature quasiparticle heat transport. <i>Physical Review Letters</i> , <b>2004</b> , 93, 107001	7-4	66
65	Fermiology of the strongly spin-orbit coupled superconductor Sn <sub>(1-x)</sub> In <sub>(x)</sub> Te: implications for topological superconductivity. <i>Physical Review Letters</i> , <b>2013</b> , 110, 206804	7-4	65
64	Intrinsic Hall response of the CuO <sub>2</sub> planes in a chain-plane composite system of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Physical Review B</i> , <b>2004</b> , 69,	3-3	63
63	Transport anomalies and the role of pseudogap in the 60-K phase of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>(7-δ)</sub> . <i>Physical Review Letters</i> , <b>2001</b> , 86, 4907-10	7-4	61
62	Anomalous dressing of Dirac fermions in the topological surface state of Bi <sub>2</sub> Se <sub>3</sub> , Bi <sub>2</sub> Te <sub>3</sub> , and Cu-doped Bi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review Letters</i> , <b>2013</b> , 110, 217601	7-4	60
61	Topological surface states in lead-based ternary telluride Pb(Bi <sub>(1-x)</sub> Sb <sub>(x)</sub> ) <sub>2</sub> Te <sub>4</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 108, 116801	7-4	53
60	Synthesis of oxosumanenes through benzylic oxidation. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 8049-52	4-2	50
59	Charge localization from local destruction of antiferromagnetic correlation in Zn-doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Physical Review B</i> , <b>1999</b> , 59, R3948-R3951	3-3	43
58	Switching of charge-current-induced spin polarization in the topological insulator BiSbTeSe <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	43
57	Relationship between Fermi surface warping and out-of-plane spin polarization in topological insulators: A view from spin- and angle-resolved photoemission. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	42
56	Robust protection from backscattering in the topological insulator Bi <sub>1.5</sub> Sb <sub>0.5</sub> Te <sub>1.7</sub> Se <sub>1.3</sub> . <i>Physical Review Letters</i> , <b>2014</b> , 112, 136802	7-4	40
55	Electronic inhomogeneity and breakdown of the universal thermal conductivity of cuprate superconductors. <i>Physical Review Letters</i> , <b>2006</b> , 96, 017008	7-4	39
54	Spin polarization of gapped Dirac surface states near the topological phase transition in TlBi(S <sub>(1-x)</sub> Se <sub>(x)</sub> ) <sub>2</sub> . <i>Physical Review Letters</i> , <b>2012</b> , 109, 186804	7-4	38
53	Superconductor derived from a topological insulator heterostructure. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	37

52	Topological proximity effect in a topological insulator hybrid. <i>Nature Communications</i> , <b>2015</b> , 6, 6547	17.4	36
51	Magnetoresistance in Heavily Underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> : Antiferromagnetic Correlations and Normal-State Transport. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1419-1422	7.4	36
50	Low-temperature nodal-quasiparticle transport in lightly doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> near the edge of the superconducting doping regime. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	31
49	Hall effect in Zn-doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> revisited: Hall angle and the pseudogap. <i>Physical Review B</i> , <b>1999</b> , 60, R15055-R15058	3.3	31
48	Self-organized charge puddles in a three-dimensional topological material. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	30
47	Top gating of epitaxial (Bi <sub>1-x</sub> Sb <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> topological insulator thin films. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161614	3.4	30
46	Dual-gated topological insulator thin-film device for efficient Fermi-level tuning. <i>ACS Nano</i> , <b>2015</b> , 9, 4050-4057	3.7	28
45	Anomalous suppression of the superfluid density in the CuxBi <sub>2</sub> Se <sub>3</sub> superconductor upon progressive Cu intercalation. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	26
44	Ambipolar transport in bulk crystals of a topological insulator by gating with ionic liquid. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	25
43	Magnetic and Transport Properties of FeAs Single Crystals. <i>Journal of the Physical Society of Japan</i> , <b>2009</b> , 78, 104720	1.5	24
42	Coherence and superconductivity in coupled one-dimensional chains: a case study of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Physical Review Letters</i> , <b>2005</b> , 94, 137004	7.4	23
41	Work function of bulk-insulating topological insulator Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 109, 091601	3.4	23
40	Quasiparticle dynamics and in-plane anisotropy in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> near the onset of superconductivity. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	21
39	Zero-doping state and electronic asymmetry in an ambipolar cuprate. <i>Nature Physics</i> , <b>2010</b> , 6, 579-583	16.2	20
38	Quantum spin excitations through the metal-to-insulator crossover in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+y</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	20
37	Ultrafast carrier relaxation through Auger recombination in the topological insulator Bi <sub>1.5</sub> Sb <sub>0.5</sub> Te <sub>1.7</sub> Se <sub>1.3</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	18
36	Anomalous metallic state above the upper critical field of the conventional three-dimensional superconductor AgSnSe <sub>2</sub> with strong intrinsic disorder. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	18
35	Doping n-type carriers by La substitution for Ba in the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> system. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	18

34	Interlayer electrodynamics and unconventional vortex state in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	16
33	Pb <sub>5</sub> Bi <sub>24</sub> Se <sub>41</sub> : A new member of the homologous series forming topological insulator heterostructures. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 221, 196-201	3-3	15
32	Chemical potential jump between the hole-doped and electron-doped sides of ambipolar high-T <sub>c</sub> cuprate superconductors. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	15
31	Doping-dependent charge dynamics in CuxBi <sub>2</sub> Se <sub>3</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	14
30	Infrared probe of the bulk insulating response in Bi <sub>2</sub> SbxTe <sub>3</sub> Se <sub>y</sub> topological insulator alloys. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	14
29	Observation of two-dimensional bulk electronic states in the superconducting topological insulator heterostructure Cux(PbSe) <sub>5</sub> (Bi <sub>2</sub> Se <sub>3</sub> ) <sub>6</sub> : Implications for unconventional superconductivity. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	14
28	Ferromagnetism in Cr-doped topological insulator TlSbTe <sub>2</sub> . <i>APL Materials</i> , <b>2015</b> , 3, 083302	5-7	13
27	Universal scaling for the spin-electricity conversion on surface states of topological insulators. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	13
26	Spin-polarized quantum well states on Bi <sub>2</sub> FexSe <sub>3</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	12
25	Magnetic field induced modification of superfluid density and interplane spectral weight in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	11
24	Sum rules and interlayer infrared response of the high temperature YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> superconductor in an external magnetic field. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097008	7-4	11
23	Universal critical behavior in single crystals and films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	10
22	Thermodynamic and transport properties of underdoped cuprates from ARPES data. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 351, 250-255	2.8	9
21	Transport Properties of Untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> Single Crystals and the Origin of the 60-K Plateau. <i>Journal of Low Temperature Physics</i> , <b>2003</b> , 131, 821-830	1-3	9
20	Charge Transport Properties of Lightly-Doped Cuprates: Behavior of the Hall Coefficient. <i>Journal of Low Temperature Physics</i> , <b>2003</b> , 131, 793-801	1-3	8
19	Strong-coupling effects in cuprate high-T <sub>c</sub> superconductors by magneto-optical studies. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	8
18	Metal-insulator transition and tunable Dirac-cone surface state in the topological insulator TlBi <sub>1-x</sub> SbxTe <sub>2</sub> studied by angle-resolved photoemission. <i>Physical Review B</i> , <b>2016</b> , 93,	3-3	7
17	Possibility of magnetic-field-induced reconstruction of the Fermi surface in underdoped cuprates: Constraints from infrared magneto-optics. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	7

16	Topological interface states in the natural heterostructure (PbSe) <sub>5</sub> (Bi <sub>2</sub> Se <sub>3</sub> ) <sub>6</sub> with BiPb defects. <i>Physical Review B</i> , <b>2018</b> , 97,	3-3	6
15	Spin-orbit coupling and anomalous angular-dependent magnetoresistance in the quantum transport regime of PbS. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	6
14	Large, linear c-axis magnetoresistance in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1877-1878	1-3	5
13	Antiferromagnetic correlations and the normal-state transport in heavily underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1555-1558	1-3	5
12	Nanomosaic of Topological Dirac States on the Surface of PbBiSe Observed by Nano-ARPES. <i>Nano Letters</i> , <b>2019</b> , 19, 3737-3742	11.5	4
11	Experimental studies of the topological superconductor CuxBi <sub>2</sub> Se <sub>3</sub> . <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 449, 012033	0-3	4
10	Ando, lavrov, and segawa reply:. <i>Physical Review Letters</i> , <b>2000</b> , 85, 475	7-4	4
9	Magnetotransport properties of untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> single crystals: novel 60-K-phase anomalies in the charge transport. <i>Journal of Physics and Chemistry of Solids</i> , <b>2002</b> , 63, 2253-2257	3-9	3
8	Magnetotransport study of the charged stripes in high-T <sub>c</sub> cuprates. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1535-1538	1-3	3
7	Additional Evidence for the Surface Origin of the Peculiar Angular-Dependent Magnetoresistance Oscillations Discovered in a Topological Insulator Bi <sub>1-x</sub> Sb <sub>x</sub> . <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012012	0-3	2
6	Unusual Charge Localization in Zn-doped and Heavily Underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> at Low Temperatures. <i>Journal of Low Temperature Physics</i> , <b>1999</b> , 117, 1175-1179	1-3	2
5	Unveiling quasiparticle dynamics of topological insulators through Bayesian modelling. <i>Communications Physics</i> , <b>2021</b> , 4,	5-4	2
4	Zn-doping effect on the normal-state charge transport in untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals at low temperatures. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 357-360, 30-33	1-3	1
3	Dirac semimetal phase and switching of band inversion in XMgBi (X = Ba and Sr). <i>Scientific Reports</i> , <b>2021</b> , 11, 21937	4-9	1
2	Synthesis and characterization of 3D topological insulators: a case TlBi(S Se ). <i>Science and Technology of Advanced Materials</i> , <b>2015</b> , 16, 014405	7-1	
1	Manifestations of the Charged Stripes in the Magnetoresistance of Heavily Underdoped Yba <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> <b>2000</b> , 152-154		