

Kouji Segawa

List of Publications by Year in Descending Order

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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	Dirac semimetal phase and switching of band inversion in XMgBi (X = Ba and Sr). <i>Scientific Reports</i> , 2021 , 11, 21937	4.9	1
104	Unveiling quasiparticle dynamics of topological insulators through Bayesian modelling. <i>Communications Physics</i> , 2021 , 4,	5.4	2
103	Nanomosaic of Topological Dirac States on the Surface of PbBiSe Observed by Nano-ARPES. <i>Nano Letters</i> , 2019 , 19, 3737-3742	11.5	4
102	Topological interface states in the natural heterostructure (PbSe) ₅ (Bi ₂ Se ₃) ₆ with BiPb defects. <i>Physical Review B</i> , 2018 , 97,	3.3	6
101	Thermodynamic evidence for nematic superconductivity in CuxBi ₂ Se ₃ . <i>Nature Physics</i> , 2017 , 13, 123-126	16.2	163
100	Metal-insulator transition and tunable Dirac-cone surface state in the topological insulator TlBi _{1-x} SbxTe ₂ studied by angle-resolved photoemission. <i>Physical Review B</i> , 2016 , 93,	3.3	7
99	Direct observation of nonequivalent Fermi-arc states of opposite surfaces in the noncentrosymmetric Weyl semimetal NbP. <i>Physical Review B</i> , 2016 , 93,	3.3	78
98	Self-organized charge puddles in a three-dimensional topological material. <i>Physical Review B</i> , 2016 , 93,	3.3	30
97	Spin-rotation symmetry breaking in the superconducting state of CuxBi ₂ Se ₃ . <i>Nature Physics</i> , 2016 , 12, 852-854	16.2	191
96	Work function of bulk-insulating topological insulator Bi _{2-x} SbxTe _{3-y} Se _y . <i>Applied Physics Letters</i> , 2016 , 109, 091601	3.4	23
95	Switching of charge-current-induced spin polarization in the topological insulator BiSbTeSe ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	43
94	Universal scaling for the spin-electricity conversion on surface states of topological insulators. <i>Physical Review B</i> , 2016 , 94,	3.3	13
93	Ultrafast carrier relaxation through Auger recombination in the topological insulator Bi _{1.5} Sb _{0.5} Te _{1.7} Se _{1.3} . <i>Physical Review B</i> , 2015 , 91,	3.3	18
92	Synthesis and characterization of 3D topological insulators: a case TlBi(S Se). <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 014405	7.1	
91	Topological proximity effect in a topological insulator hybrid. <i>Nature Communications</i> , 2015 , 6, 6547	17.4	36
90	Dual-gated topological insulator thin-film device for efficient Fermi-level tuning. <i>ACS Nano</i> , 2015 , 9, 4050-4057	16.7	28
89	Large linear magnetoresistance in the Dirac semimetal TlBiSSe. <i>Physical Review B</i> , 2015 , 91,	3.3	109

88	Pb ₅ Bi ₂₄ Se ₄₁ : A new member of the homologous series forming topological insulator heterostructures. <i>Journal of Solid State Chemistry</i> , 2015 , 221, 196-201	3-3	15
87	Spin-polarized quantum well states on Bi ₂ Se ₃ /FexSe ₃ . <i>Physical Review B</i> , 2015 , 91,	3-3	12
86	Infrared probe of the bulk insulating response in Bi ₂ SbxTe ₃ /Sey topological insulator alloys. <i>Physical Review B</i> , 2015 , 91,	3-3	14
85	Observation of two-dimensional bulk electronic states in the superconducting topological insulator heterostructure Cux(PbSe) ₅ (Bi ₂ Se ₃) ₆ : Implications for unconventional superconductivity. <i>Physical Review B</i> , 2015 , 92,	3-3	14
84	Ferromagnetism in Cr-doped topological insulator TlSbTe ₂ . <i>APL Materials</i> , 2015 , 3, 083302	5-7	13
83	Spin-electricity conversion induced by spin injection into topological insulators. <i>Physical Review Letters</i> , 2014 , 113, 196601	7-4	228
82	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> , 2014 , 14, 6226-30	11-5	121
81	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> , 2014 , 89,	3-3	42
80	Doping-dependent charge dynamics in CuxBi ₂ Se ₃ . <i>Physical Review B</i> , 2014 , 90,	3-3	14
79	Top gating of epitaxial (Bi _{1-x} Sbx) ₂ Te ₃ topological insulator thin films. <i>Applied Physics Letters</i> , 2014 , 104, 161614	3-4	30
78	Superconductor derived from a topological insulator heterostructure. <i>Physical Review B</i> , 2014 , 90,	3-3	37
77	Topological surface transport in epitaxial SnTe thin films grown on Bi ₂ Te ₃ . <i>Physical Review B</i> , 2014 , 89,	3-3	90
76	Robust protection from backscattering in the topological insulator Bi _{1.5} Sb _{0.5} Te _{1.7} Se _{1.3} . <i>Physical Review Letters</i> , 2014 , 112, 136802	7-4	40
75	Unusual nature of fully gapped superconductivity in In-doped SnTe. <i>Physical Review B</i> , 2013 , 88,	3-3	82
74	Two types of Dirac-cone surface states on the (111) surface of the topological crystalline insulator SnTe. <i>Physical Review B</i> , 2013 , 88,	3-3	76
73	Tunability of the k-space location of the Dirac cones in the topological crystalline insulator Pb _{1-x} Sn _x Te. <i>Physical Review B</i> , 2013 , 87,	3-3	119
72	Fermiology of the strongly spin-orbit coupled superconductor Sn(1-x)In(x)Te: implications for topological superconductivity. <i>Physical Review Letters</i> , 2013 , 110, 206804	7-4	65
71	Anomalous dressing of Dirac fermions in the topological surface state of Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Cu-doped Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2013 , 110, 217601	7-4	60

70	Anomalous metallic state above the upper critical field of the conventional three-dimensional superconductor AgSnSe ₂ with strong intrinsic disorder. <i>Physical Review B</i> , 2013 , 87,	3.3	18
69	Experimental studies of the topological superconductor Cu _x Bi ₂ Se ₃ . <i>Journal of Physics: Conference Series</i> , 2013 , 449, 012033	0.3	4
68	Odd-parity pairing and topological superconductivity in a strongly spin-orbit coupled semiconductor. <i>Physical Review Letters</i> , 2012 , 109, 217004	7.4	152
67	Spin polarization of gapped Dirac surface states near the topological phase transition in TlBi(S(1-x)Se(x)) ₂ . <i>Physical Review Letters</i> , 2012 , 109, 186804	7.4	38
66	Manipulation of topological states and the bulk band gap using natural heterostructures of a topological insulator. <i>Physical Review Letters</i> , 2012 , 109, 236804	7.4	72
65	Fermi level tuning and a large activation gap achieved in the topological insulator Bi ₂ Te ₂ Se by Sn doping. <i>Physical Review B</i> , 2012 , 85,	3.3	106
64	Manifestation of topological protection in transport properties of epitaxial Bi ₂ Se ₃ thin films. <i>Physical Review Letters</i> , 2012 , 109, 066803	7.4	297
63	Achieving surface quantum oscillations in topological insulator thin films of Bi ₂ Se ₃ . <i>Advanced Materials</i> , 2012 , 24, 5581-5	24	71
62	Tunable Dirac cone in the topological insulator Bi(2-x)Sb(x)Te(3-y)Se(y). <i>Nature Communications</i> , 2012 , 3, 636	17.4	261
61	Experimental realization of a topological crystalline insulator in SnTe. <i>Nature Physics</i> , 2012 , 8, 800-803	16.2	661
60	Topological surface states in lead-based ternary telluride Pb(Bi(1-x)Sb(x)) ₂ Te ₄ . <i>Physical Review Letters</i> , 2012 , 108, 116801	7.4	53
59	Ambipolar transport in bulk crystals of a topological insulator by gating with ionic liquid. <i>Physical Review B</i> , 2012 , 86,	3.3	25
58	Anomalous suppression of the superfluid density in the Cu _x Bi ₂ Se ₃ superconductor upon progressive Cu intercalation. <i>Physical Review B</i> , 2012 , 86,	3.3	26
57	Unexpected mass acquisition of Dirac fermions at the quantum phase transition of a topological insulator. <i>Nature Physics</i> , 2011 , 7, 840-844	16.2	189
56	Direct measurement of the out-of-plane spin texture in the Dirac-cone surface state of a topological insulator. <i>Physical Review Letters</i> , 2011 , 106, 216803	7.4	158
55	Additional Evidence for the Surface Origin of the Peculiar Angular-Dependent Magnetoresistance Oscillations Discovered in a Topological Insulator Bi _{1-x} Sb _x . <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012012	0.3	2
54	Bulk superconducting phase with a full energy gap in the doped topological insulator Cu(x)Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2011 , 106, 127004	7.4	260
53	Optimizing Bi _{2-x} Sb _x Te _{3-y} Se _y solid solutions to approach the intrinsic topological insulator regime. <i>Physical Review B</i> , 2011 , 84,	3.3	217

52	Synthesis of oxosumanenes through benzylic oxidation. <i>Journal of Organic Chemistry</i> , 2011 , 76, 8049-52	4.2	50
51	Observation of dirac holes and electrons in a topological insulator. <i>Physical Review Letters</i> , 2011 , 107, 016801	7.4	270
50	Observations of two-dimensional quantum oscillations and ambipolar transport in the topological insulator Bi ₂ Se ₃ achieved by Cd doping. <i>Physical Review B</i> , 2011 , 84,	3.3	71
49	Electrochemical synthesis and superconducting phase diagram of Cu _x Bi ₂ Se ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	97
48	Topological Superconductivity in Cu(x)Bi(2)Se(3). <i>Physical Review Letters</i> , 2011 , 107, 217001	7.4	493
47	Zero-doping state and electron-hole asymmetry in an ambipolar cuprate. <i>Nature Physics</i> , 2010 , 6, 579-583	6.2	20
46	Spin-orbit coupling and anomalous angular-dependent magnetoresistance in the quantum transport regime of PbS. <i>Physical Review B</i> , 2010 , 81,	3.3	6
45	Angular-dependent oscillations of the magnetoresistance in Bi ₂ Se ₃ due to the three-dimensional bulk Fermi surface. <i>Physical Review B</i> , 2010 , 81,	3.3	170
44	Possibility of magnetic-field-induced reconstruction of the Fermi surface in underdoped cuprates: Constraints from infrared magneto-optics. <i>Physical Review B</i> , 2010 , 81,	3.3	7
43	Large bulk resistivity and surface quantum oscillations in the topological insulator Bi ₂ Te ₂ Se. <i>Physical Review B</i> , 2010 , 82,	3.3	527
42	Chemical potential jump between the hole-doped and electron-doped sides of ambipolar high-T _c cuprate superconductors. <i>Physical Review B</i> , 2010 , 82,	3.3	15
41	Direct evidence for the dirac-cone topological surface states in the ternary chalcogenide TlBiSe ₃ <i>Physical Review Letters</i> , 2010 , 105, 136802	7.4	177
40	Oscillatory angular dependence of the magnetoresistance in a topological insulator Bi _{1-x} Sb _x . <i>Physical Review B</i> , 2010 , 82,	3.3	68
39	Universal critical behavior in single crystals and films of YBa ₂ Cu ₃ O _{7-δ} <i>Physical Review B</i> , 2009 , 80,	3.3	10
38	Magnetic field induced modification of superfluid density and interplane spectral weight in YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2009 , 79,	3.3	11
37	Magnetic and Transport Properties of FeAs Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 104720	1.5	24
36	Quantum spin excitations through the metal-to-insulator crossover in YBa ₂ Cu ₃ O _{6+y} . <i>Physical Review B</i> , 2008 , 77,	3.3	20
35	Sum rules and interlayer infrared response of the high temperature YBa ₂ Cu ₃ O _y superconductor in an external magnetic field. <i>Physical Review Letters</i> , 2008 , 101, 097008	7.4	11

34	Interlayer electrostatics and unconventional vortex state in YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2007 , 76,	3-3	16
33	Electronic inhomogeneity and breakdown of the universal thermal conductivity of cuprate superconductors. <i>Physical Review Letters</i> , 2006 , 96, 017008	7-4	39
32	Doping n-type carriers by La substitution for Ba in the YBa ₂ Cu ₃ O _y system. <i>Physical Review B</i> , 2006 , 74,	3-3	18
31	Electrodynamics of the nodal metal state in weakly doped high-T _c cuprates. <i>Physical Review B</i> , 2005 , 72,	3-3	113
30	Strong-coupling effects in cuprate high-T _c superconductors by magneto-optical studies. <i>Physical Review B</i> , 2005 , 72,	3-3	8
29	Constant effective mass across the phase diagram of high-T _c cuprates. <i>Physical Review B</i> , 2005 , 72,	3-3	98
28	Low-temperature nodal-quasiparticle transport in lightly doped YBa ₂ Cu ₃ O _y near the edge of the superconducting doping regime. <i>Physical Review B</i> , 2005 , 72,	3-3	31
27	Coherence and superconductivity in coupled one-dimensional chains: a case study of YBa ₂ Cu ₃ O _y . <i>Physical Review Letters</i> , 2005 , 94, 137004	7-4	23
26	Evolution of the Hall coefficient and the peculiar electronic structure of the cuprate superconductors. <i>Physical Review Letters</i> , 2004 , 92, 197001	7-4	160
25	Quasiparticle dynamics and in-plane anisotropy in YBa ₂ Cu ₃ O _y near the onset of superconductivity. <i>Physical Review B</i> , 2004 , 70,	3-3	21
24	Metal-to-insulator crossover in YBa ₂ Cu ₃ O _y probed by low-temperature quasiparticle heat transport. <i>Physical Review Letters</i> , 2004 , 93, 107001	7-4	66
23	Intrinsic Hall response of the CuO ₂ planes in a chain-plane composite system of YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 2004 , 69,	3-3	63
22	Thermodynamic and transport properties of underdoped cuprates from ARPES data. <i>Physica B: Condensed Matter</i> , 2004 , 351, 250-255	2-8	9
21	Electronic phase diagram of high-T _c cuprate superconductors from a mapping of the in-plane resistivity curvature. <i>Physical Review Letters</i> , 2004 , 93, 267001	7-4	260
20	Charge Transport Properties of Lightly-Doped Cuprates: Behavior of the Hall Coefficient. <i>Journal of Low Temperature Physics</i> , 2003 , 131, 793-801	1-3	8
19	Transport Properties of Untwinned YBa ₂ Cu ₃ O _y Single Crystals and the Origin of the 60-K Plateau. <i>Journal of Low Temperature Physics</i> , 2003 , 131, 821-830	1-3	9
18	Magnetotransport properties of untwinned YBa ₂ Cu ₃ O _y single crystals: novel 60-K-phase anomalies in the charge transport. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 2253-2257	3-9	3
17	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> , 2002 , 88, 167005	7-4	81

16	Electrical resistivity anisotropy from self-organized one dimensionality in high-temperature superconductors. <i>Physical Review Letters</i> , 2002 , 88, 137005	7.4	362
15	Zn-doping effect on the normal-state charge transport in untwinned YBa ₂ Cu ₃ O ₇ single crystals at low temperatures. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 357-360, 30-33	1.3	1
14	Mobility of the doped holes and the antiferromagnetic correlations in underdoped high- T _c cuprates. <i>Physical Review Letters</i> , 2001 , 87, 017001	7.4	235
13	Transport anomalies and the role of pseudogap in the 60-K phase of YBa ₂ (2)Cu ₃ O(7-delta). <i>Physical Review Letters</i> , 2001 , 86, 4907-10	7.4	61
12	Large, linear c-axis magnetoresistance in YBa ₂ Cu ₃ O ₇ <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1877-1878	1.3	5
11	Magnetotransport study of the charged stripes in high-T _c cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1535-1538	1.3	3
10	Antiferromagnetic correlations and the normal-state transport in heavily underdoped YBa ₂ Cu ₃ O _{6+x} . <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1555-1558	1.3	5
9	Carrier concentrations in Bi ₂ Sr ₂ LazCuO ₆ single crystals and their relation to the Hall coefficient and thermopower. <i>Physical Review B</i> , 2000 , 61, R14956-R14959	3.3	109
8	Ando, lavrov, and segawa reply:. <i>Physical Review Letters</i> , 2000 , 85, 475	7.4	4
7	Manifestations of the Charged Stripes in the Magnetoresistance of Heavily Underdoped Yba ₂ Cu ₃ O _{6+x} 2000 , 152-154		
6	Specific-heat evidence for strong electron correlations in the thermoelectric material (Na,Ca)Co ₂ O ₄ . <i>Physical Review B</i> , 1999 , 60, 10580-10583	3.3	154
5	Charge localization from local destruction of antiferromagnetic correlation in Zn-doped YBa ₂ Cu ₃ O ₇ <i>Physical Review B</i> , 1999 , 59, R3948-R3951	3.3	43
4	Magnetoresistance Anomalies in Antiferromagnetic YBa ₂ Cu ₃ O _{6+x} : Fingerprints of Charged Stripes. <i>Physical Review Letters</i> , 1999 , 83, 2813-2816	7.4	85
3	Magnetoresistance in Heavily Underdoped YBa ₂ Cu ₃ O _{6+x} : Antiferromagnetic Correlations and Normal-State Transport. <i>Physical Review Letters</i> , 1999 , 83, 1419-1422	7.4	36
2	Hall effect in Zn-doped YBa ₂ Cu ₃ O ₇ revisited: Hall angle and the pseudogap. <i>Physical Review B</i> , 1999 , 60, R15055-R15058	3.3	31
1	Unusual Charge Localization in Zn-doped and Heavily Underdoped YBa ₂ Cu ₃ O ₇ at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 1175-1179	1.3	2