Kazuya Miyagawa

List of Publications by Year
in descending order

81	4,552	186265 28	95266 68
papers	citations	h-index	g-index

82	82	82	2811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin Liquid State in an Organic Mott Insulator with a Triangular Lattice. Physical Review Letters, 2003, 91, 107001.	7.8	1,011
2	Thermodynamic properties of a spin-1/2 spin-liquid state in a Î¹-type organic salt. Nature Physics, 2008, 4, 459-462.	16.7	433
3	Unconventional critical behaviour in a quasi-two-dimensional organic conductor. Nature, 2005, 436, 534-537.	27.8	272
4	Antiferromagnetic Ordering and Spin Structure in the Organic Conductor,Î¹-(BEDT-TTF)2Cu[N(CN)2]Cl. Physical Review Letters, 1995, 75, 1174-1177.	7.8	260
5	Superconductivity at 14.2 K in Layered Organics under Extreme Pressure. Journal of the Physical Society of Japan, 2003, 72, 468-471.	1.6	176
6	13C NMR Study of Layered Organic Superconductors Based on BEDT-TTF Molecules. Physical Review Letters, 1995, 74, 3455-3458.	7.8	170
7	Charge ordering in a quasi-two-dimensional organic conductor. Physical Review B, 2000, 62, R7679-R7682.	3.2	165
8	Evidence of Andreev bound states as a hallmark of the FFLO phase in Î¹-(BEDT-TTF)2Cu(NCS)2. Nature Physics, 2014, 10, 928-932.	16.7	140
9	NMR Studies on Two-Dimensional Molecular Conductors and Superconductors:Â Mott Transition in Î¹-(BEDT-TTF)2X. Chemical Reviews, 2004, 104, 5635-5654.	47.7	132
10	Emergence of inhomogeneous moments from spin liquid in the triangular-lattice Mott insulatorÎ¹â˜'(ET)2Cu2(CN)3. Physical Review B, 2006, 73, .	3.2	127
11	Electron correlation in theÎ¹-phase family of BEDT-TTF compounds studied byC13NMR, where BEDT-TTF is bis(ethylenedithio)tetrathiafulvalene. Physical Review B, 1995, 52, 15522-15533.	3.2	124
12	Transport criticality of the first-order Mott transition in the quasi-two-dimensional organic conductorÎ¹â˜'(BEDTâ˜'TTF)2Cu[N(CN)2]Cl. Physical Review B, 2004, 69, .	3.2	124
13	Observation of an anisotropic Dirac cone reshaping and ferrimagnetic spin polarization in an organic conductor. Nature Communications, 2016, 7, 12666.	12.8	120
14	Quantum criticality of Mott transition in organicÂmaterials. Nature Physics, 2015, 11, 221-224.	16.7	101
15	Proximity of Pseudogapped Superconductor and Commensurate Antiferromagnet in a Quasi-Two-Dimensional Organic System. Physical Review Letters, 2002, 89, 017003.	7.8	89
16	Charge-cluster glass in an organic conductor. Nature Physics, 2013, 9, 419-422.	16.7	81
17	Magnetic Mott criticality in a Î¹-type organic salt probed by NMR. Nature Physics, 2009, 5, 880-884.	16.7	67
18	Anomalous spin correlations and excitonic instability of interacting 2D Weyl fermions. Science, 2017, 358, 1403-1406.	12.6	62

#	Article	IF	Citations
19	Quantum Spin Liquid Emerging from Antiferromagnetic Order by Introducing Disorder. Physical Review Letters, 2015, 115, 077001.	7.8	61
20	Photomolecular High-Temperature Superconductivity. Physical Review X, 2020, 10, .	8.9	59
21	Anisotropic charge dynamics in the quantum spin-liquid candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î</mml:mi><mml:mtext>â^'</mml:mtext><mml:mo>(</mml:mo><mml:mathvariant="normal">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mn>CN</mml:mn></mml:msub> Physical Review B, 2014, 90, .	3.2	56
22	Insulating Nature of Strongly Correlated Massless Dirac Fermions in an Organic Crystal. Physical Review Letters, 2016, 116, 226401.	7.8	55
23	Mott transition by an impulsive dielectricÂbreakdown. Nature Materials, 2017, 16, 1100-1105.	27.5	49
24	Pressure-Induced Mott Transition in an Organic Superconductor with a Finite Doping Level. Physical Review Letters, 2015, 114, 067002.	7.8	46
25	Quantum criticality in an organic spin-liquid insulator Î²-(BEDT-TTF)2Cu2(CN)3. Nature Communications, 2016, 7, 13494.	12.8	36
26	Quasi-continuous transition from a Fermi liquid to a spin liquid in Î²-(ET)2Cu2(CN)3. Nature Communications, 2018, 9, 307.	12.8	36
27	Field-induced staggered magnetic moment in the quasi-two-dimensional organic Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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37	13C NMR Study on Zero-Gap State in the Organic Conductor Î¸-(BEDT-TTF)2I3 under Pressure. Journal of the Physical Society of Japan, 2010, 79, 063703.	1.6	15
38	(BEDT-TTF)2Cu2(CN)3 Spin Liquid: Beyond the Average Structure. Crystals, 2018, 8, 158.	2.2	14
39	Neutralâ€“Ionic Phase Transition in DMTTF-QCl4 Investigated by 35Cl NQR. Journal of the Physical Society of Japan, 2007, 76, 073701.	1.6	13
40	Antiferromagnetic Ordering in the Single-Component Molecular Conductor [Pd(tmdt)₂]. Inorganic Chemistry, 2016, 55, 7709-7716.	4.0	13
41	Disorder unveils Mott quantum criticality behind a first-order transition in the quasi-two-dimensional organic conductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î</mml:mi><mml:mtext>â€”</mml:mtext><mml:mo>(</mml:mo><mml:mi /><mml:mn>2</mml:mn></mml:msub><mml:mtext>Cu</mml:mtext><mml:mo>[</mml:mo><mml:mtext>N</mml:mtext><mml:mo>	3.2	13
42	Phase Diagram for Light-Induced Superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î</mml:mi><mml:mtext>â€”</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mi>ET</mml:mi><mml:msub><mml:mrow><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 532 Td (	7.8	13
43	Electronic states and molecular dynamics of single-component molecular conductors<mml:math mathvariant="normal">X</mml:mi></mml:mrow></mml:math>. Physical Review Letters, 2021, 127, 197002.		

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55	Fluctuation Spectroscopy Analysis Based on the Duttaâ€“Dimonâ€“Horn Model for the Charge-Glass System Î¸-(BEDT-TTF)₂CsZn(SCN)₄. Journal of the Physical Society of Japan, 2016, 85, 123702.	1.6	7
56	Magnetic-field-induced superconductor-insulator-metal transition in an organic conductor: An infrared magneto-optical imaging spectroscopic study. Physical Review B, 2007, 75, .	3.2	6
57	Single-component molecular material hosting antiferromagnetic and spin-gapped Mott subsystems. Physical Review B, 2017, 95, .	3.2	6
58	Antiferromagnetic Mott insulating state in the single-component molecular material Pd(tmdt) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 96, .	3.2	6
59	Spin-gapped Mott insulator with the dimeric arrangement of twisted molecules Zn(tmdt) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	3.2	5
60	Charge-Lattice-Coupled Quantum Fluctuations in DMTTFâ€“2,6-QBr2Cl2. Journal of the Physical Society of Japan, 2010, 79, 043709.	1.6	4
61	Anomalous 2D-Confined Electronic Transport in Layered Organic Charge-Glass Systems. Physical Review Letters, 2020, 125, 146601.	7.8	4
62	Magnetic excitations in an ionic spin-chain system with a nonmagnetic ferroelectric instability. Physical Review Research, 2020, 2, .	3.6	4
63	Variation in the nature of the neutral-ionic transition in DMTTFâ^'QCl4 under pressure probed by NQR and NMR. Physical Review B, 2019, 99, .	3.2	3
64	Superfluid density versus transition temperature in a layered organic superconductor Îºâ^'(BEDTâ^'TTF)2Cu[N(CN)2]Br under pressure. Physical Review Research, 2020, 2, .	3.6	3
65	Inhomogeneous Spin State in a Spin Liquid on a Triangular Lattice under a Magnetic Field. AIP Conference Proceedings, 2006, , .	0.4	2
66	Transition from a Metal to a Massless-Dirac-Fermion Phase in an Organic Conductor Investigated by¹³C NMR. Journal of the Physical Society of Japan, 2016, 85, 073710.	1.6	2
67	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> NMR evidence for strong electron correlation and antiferromagnetic order in the single-component molecular material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Pd</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn	3.2	2
68	Fate of soliton matter upon symmetry-breaking ferroelectric order. Physical Review B, 2021, 103, .	3.2	2
69	Multiorbital antiferromagnetic metal induced by intramolecular self-doping. Physical Review Research, 2020, 2, .	3.6	2
70	Band-Selective NMR of a Ï€- d Hybridized Electronic System. Molecular Crystals and Liquid Crystals, 2002, 379, 95-100.	0.9	1
71	High-pressure Study of a Doped-type Organic Superconductor, Îº-(BEDT-TTF)4Hg2.89Br8. Journal of Low Temperature Physics, 2007, 142, 551-554.	1.4	1
72	Pressure-temperature phase diagram of a charge-ordered organic conductor studied by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>NMR. Physical Review B, 2014, 90, .	3.2	1

#	ARTICLE	IF	CITATIONS
73	Mott Transition Coupled to Molecular Motion in a Quasi-Two-Dimensional Organic Material. Journal of the Physical Society of Japan, 2018, 87, 094707.	1.6	1
74	Charge Order and Poor Glass-forming Ability of an Anisotropic Triangular-lattice System, Î¸-(BEDT-TTF)2TlCo(SCN)4, Investigated by NMR. Journal of the Physical Society of Japan, 2019, 88, 034705.	1.6	1
75	New insights into the structural properties of Îº-(BEDT-TTF)₂Ag₂(CN)₃spin liquid. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 581-590.	1.1	1
76	Enhanced lattice fluctuations prior to a nonmagnetic ferroelectric order in an ionic spin-chain system. Physical Review B, 2021, 104, .	3.2	1
77	Emergence of unconventional spin glass-like state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îº</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>(ET)</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi>Cu[N(CN)</mml:mi></mml:mrow><mml:mn>2</mml:mn by introducing weak randomness. Physical Review B, 2021, 104, .	3.2	1
78	Topological Excitations in Neutralâ€“Ionic Transition Systems. Symmetry, 2022, 14, 925.	2.2	1
79	Superconductivity Emerging from Spin-Liquid Mott Insulator in Triangular Lattice System. AIP Conference Proceedings, 2006, , .	0.4	0
80	High-pressure study of a doped-type organic superconductor, Îº-(BEDT-TTF)4Hg2.89Br8. Journal of Low Temperature Physics, 2006, 142, 547-550.	1.4	0
81	Electrical Transport in the Quasi-Two-Dimensional Ionic Mott Insulator M2P-TCNQF4 under High Pressures. Journal of the Physical Society of Japan, 2015, 84, 104702.	1.6	0