Kazushi Kanoda

List of Publications by Year
in descending order

118	7,825	94433 37	51608 86
papers	citations	h-index	g-index

119	119	119	4037
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	Quantum spin liquid states. Reviews of Modern Physics, 2017, 89, .	45.6	904
3	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
4	Recent progress in NMR studies on organic conductors. , 1997, 104, 235-249.		380
5	Mott Transition from a Spin Liquid to a Fermi Liquid in the Spin-Frustrated Organic ConductorÎ¹â^'(ET)2Cu2(CN)3. Physical Review Letters, 2005, 95, 177001.	7.8	297
6	Unconventional critical behaviour in a quasi-two-dimensional organic conductor. Nature, 2005, 436, 534-537.	27.8	272
7	Electron correlation, metal-insulator transition and superconductivity in quasi-2D organic systems, (ET)2X. Physica C: Superconductivity and Its Applications, 1997, 282-287, 299-302.	1.2	264
8	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
9	Metalâ€“Insulator Transition in Î¹-(ET)2X and (DCNQI)2M: Two Contrasting Manifestation of Electron Correlation. Journal of the Physical Society of Japan, 2006, 75, 051007.	1.6	217
10	Mott Physics in Organic Conductors with Triangular Lattices. Annual Review of Condensed Matter Physics, 2011, 2, 167-188.	14.5	212
11	13C NMR Study of Layered Organic Superconductors Based on BEDT-TTF Molecules. Physical Review Letters, 1995, 74, 3455-3458.	7.8	170
12	Charge ordering in a quasi-two-dimensional organic conductor. Physical Review B, 2000, 62, R7679-R7682.	3.2	165
13	Wigner Crystal Type of Charge Ordering in an Organic Conductor with a Quarter-Filled Band:(DIâ^'DCNQI)2Ag. Physical Review Letters, 1998, 80, 4737-4740.	7.8	160
14	Magnetic and non-magnetic phases of a quantum spin liquid. Nature, 2011, 471, 612-616.	27.8	155
15	Charge ordering inÎ¸â^'(BEDTâ^'TTF)2RbZn(SCN)4studied by vibrational spectroscopy. Physical Review B, 2002, 65, .	3.2	141
16	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
17	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
18	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

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19	Electron correlation in theÎº-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
20	Transport criticality of the first-order Mott transition in the quasi-two-dimensional organic conductorÎºâ€²(BEDTâ€²TTF)2Cu[N(CN)2]Cl. Physical Review B, 2004, 69, .	3.2	124
21	Observation of an anisotropic Dirac cone reshaping and ferrimagnetic spin polarization in an organic conductor. Nature Communications, 2016, 7, 12666.	12.8	120
22	Recent Topics of Organic Superconductors. Journal of the Physical Society of Japan, 2012, 81, 011004.	1.6	106
23	Quantum criticality of Mott transition in organicÂmaterials. Nature Physics, 2015, 11, 221-224.	16.7	101
24	Proximity of Pseudogapped Superconductor and Commensurate Antiferromagnet in a Quasi-Two-Dimensional Organic System. Physical Review Letters, 2002, 89, 017003.	7.8	89
25	Charge-cluster glass in an organic conductor. Nature Physics, 2013, 9, 419-422.	16.7	81
26	Magnetic Mott criticality in a Îº-type organic salt probed by NMR. Nature Physics, 2009, 5, 880-884.	16.7	67
27	Anomalous spin correlations and excitonic instability of interacting 2D Weyl fermions. Science, 2017, 358, 1403-1406.	12.6	62
28	Quantum Spin Liquid Emerging from Antiferromagnetic Order by Introducing Disorder. Physical Review Letters, 2015, 115, 077001.	7.8	61
29	Photomolecular High-Temperature Superconductivity. Physical Review X, 2020, 10, .	8.9	59
30	Anisotropic charge dynamics in the quantum spin-liquid candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îº</mml:mi><mml:mtext>â€²</mml:mtext><mml:mo>(</mml:mo><mm 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
31	Depressed charge gap in the triangular-lattice Mott insulatorÎºâ€²(ET)2Cu2(CN)3. Physical Review B, 2006, 74, .	3.2	55
32	Insulating Nature of Strongly Correlated Massless Dirac Fermions in an Organic Crystal. Physical Review Letters, 2016, 116, 226401.	7.8	55
33	Field switching of superconductor-insulator bistability in artificially tuned organics. Physical Review B, 2003, 67, .	3.2	53
34	Superconductorâ€²Insulator Transition Controlled by Partial Deuteration in BEDT-TTF Salt. Journal of the American Chemical Society, 1998, 120, 10984-10985.	13.7	49
35	Mott transition by an impulsive dielectricÂbreakdown. Nature Materials, 2017, 16, 1100-1105.	27.5	49
36	Electronic specific heat at the boundary region of the metal-insulator transition in the two-dimensional electronic system ofÎºâ€²(BEDTâ€²TTF)2Cu[N(CN)2]Br. Physical Review B, 2000, 61, R16295-R16298.	3.2	47

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37	Pressure-Induced Mott Transition in an Organic Superconductor with a Finite Doping Level. Physical Review Letters, 2015, 114, 067002.	7.8	46
38	Electronic structure of insulating salts of theÎºâˆ’(BEDTâˆ’TTF)2Xfamily studied by low-temperature specific-heat measurements. Physical Review B, 1996, 53, R8875-R8878.	3.2	41
39	Gapped magnetic ground state in quantum spin liquid candidate Îº-(BEDT-TTF) ₂ Cu ₂ (CN) ₃. Science, 2021, 372, 276-279.	12.6	38
40	Quantum criticality in an organic spin-liquid insulator Îº-(BEDT-TTF)2Cu2(CN)3. Nature Communications, 2016, 7, 13494.	12.8	36
41	Quasi-continuous transition from a Fermi liquid to a spin liquid in Îº-(ET)2Cu2(CN)3. Nature Communications, 2018, 9, 307.	12.8	36
42	The C=C Stretching Vibrations of Îº-(BEDTâ€“TTF)2Cu[N(CN)2]Br and Its Isotope Analogues. Journal of the Physical Society of Japan, 2001, 70, 3728-3738.	1.6	35
43	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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55	Anomalous enhancement of electronic heat capacity in the organic conductorsÎºâˆ’(BEDTâˆ’TTF)4Hg3âˆ’ÎX8(X=Br,Cl). Physical Review B, 2005, 71, .	3.2	22
56	Slow dynamics of electrons at a metalâ€“Mott insulator boundary in an organic system with disorder. Science Advances, 2017, 3, e1601594.	10.3	22
57	Revisited phase diagram on charge instability and lattice symmetry breaking in the organic ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>TTF-QCl</mml:mtext><mml:mn>4</mml:mn></mml:msub></mml:math> Physical Review B, 2018, 98, .	3.2	19
58	Anomalous metallic behaviour in the doped spin liquid candidate Îº-(ET)4Hg2.89Br8. Nature Communications, 2017, 8, 756.	12.8	17
59	Spin-lattice decoupling in a triangular-lattice quantum spin liquid. Nature Communications, 2018, 9, 1509.	12.8	17
60	Spin excitations in the quasi-two-dimensional charge-ordered insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>âˆ’</mml:mo><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>probed via<mml:math xmlns:mml="http://www.w3.org/1998/Math/Math. Physical Review B, 2016, 94, .	3.2	16
61	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
62	Interacting chiral electrons at the 2D Dirac points: a review. Reports on Progress in Physics, 2021, 84, 036502.	20.1	15
63	Commensurate magnetic structure in Îº-(BEDT-TTF)2X. Physica B: Condensed Matter, 2000, 284-288, 1589-1590.	2.7	14
64	(BEDT-TTF)2Cu2(CN)3 Spin Liquid: Beyond the Average Structure. Crystals, 2018, 8, 158.	2.2	14
65	Collapse of the charge order in(DIâˆ’DCNQI)2Agby dimensional crossover. Physical Review B, 2005, 72, .	3.2	13
66	Neutralâ€“Ionic Phase Transition in DMTTF-QCl4 Investigated by 35Cl NQR. Journal of the Physical Society of Japan, 2007, 76, 073701.	1.6	13
67	Antiferromagnetic Ordering in the Single-Component Molecular Conductor [Pd(tmdt)₂]. Inorganic Chemistry, 2016, 55, 7709-7716.	4.0	13
68	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>Îº</mml:mi><mml:mtext>âˆ’</mml:mtext><mml:mo>(</mml:mo><mml:mi>/</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>(</mml:mo> Physical Review B, 2019, 99, .	3.2	13
69	Electronic states and molecular dynamics of single-component molecular conductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Îº</mml:mi><mml:mtext>âˆ’</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mi>ET</mml:mi><mml:msub><mml:mrow><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 mathvariant="normal">X</mml:mi></mml:mrow></mml:msub></mml:math>. Physical Review Letters, 2021, 127, 197002.	7.8	13
70			

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73	Chiral excitonic instability of two-dimensional tilted Dirac cones. Physical Review Research, 2020, 2, .	3.6	11
74	Phase diagram of vortices in the quasi-two-dimensional organic superconductorÎ±â˜'(BEDTâ˜'TTF)2NH4Hg(SCN)4:â€ƒA system of pancake vortices with out-of-plane coupling dominated by the electromagnetic energy. Physical Review B, 1998, 57, 3623-3634.	3.2	10
75	Suppression of electronic susceptibility in metalâ€“Mott-insulator alternating material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Me</mml:mi><mml:mtext>â˜'</mml:mtext><mml:mn>3</mml:mn><mml:mathvariant="bold">2</mml:mn></mml:msub><mml:msub><mml. Physical Review B, 2008, 77, .	3.2	10
76	Resonant inelastic x-ray scattering probes the electron-phonon coupling in the spin liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îº</mml:mi></mml:math> -(BEDT-TTF) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi><mml:mn><mml:mr Physical Review B, 2017, 96, .	3.2	10
77	Strange metal from a frustration-driven charge order instability. Nature Materials, 2019, 18, 229-233.	27.5	10
78	Quantum Disordering of an Antiferromagnetic Order by Quenched Randomness in an Organic Mott Insulator. Physical Review Letters, 2020, 124, 117204.	7.8	10
79	NMR evidence for antiferromagnetic transition in the single-component molecular system [Cu(tmdt)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>]. Physical Review B, 2012, 85, .	3.2	9
80	Terahertz-field-induced polar charge order in electronic-type dielectrics. Nature Communications, 2021, 12, 953.	12.8	9
81	Mott-Driven BEC-BCS Crossover in a Doped Spin Liquid Candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Îº</mml:mi><mml:mtext>â˜'</mml:mtext><mml:mo stretchy="false">(</mml:mo><mml:mi>BEDT</mml:mi><mml:mtext>â˜'</mml:mtext><mml:mi>TTF</mml:mi><mml:msub><mml:mro Physical Review X, 2022, 12, .	8.9	9
82	Drastic cooling rate dependence of thermal anomaly associated with the superconducting transition in k-(BEDT-TTF)4Hg2.89Br8. Journal of Thermal Analysis and Calorimetry, 2005, 81, 591-594.	3.6	8
83	Spin Liquid State in Îº-(BEDT-TTF)2Cu2(CN)3 Studied by Muon Spin Relaxation Method. Journal of Low Temperature Physics, 2007, 142, 153-158.	1.4	8
84	Electron correlations in the quasi-two-dimensional organic conductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¸</mml:mi></mml:math>-(BEDT-TTF)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>I<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	8
85	Electron transport in TTF-CA under High pressures. Physica B: Condensed Matter, 2015, 460, 83-87.	2.7	8
86	Single-Component Molecular Conductors â€" Multi-Orbital Correlated Ï€-d Electron Systems. Bulletin of the Chemical Society of Japan, 2021, 94, 2540-2562.	3.2	8
87	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
88	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
89	Single-component molecular material hosting antiferromagnetic and spin-gapped Mott subsystems. Physical Review B, 2017, 95, .	3.2	6
90	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

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91	High Pressure Structures of Organic Low Dimensional Conductor DCNQI Compounds.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 404-406.	0.0	6
92	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
93	Charge-Lattice-Coupled Quantum Fluctuations in DMTTFâ€“2,6-QBr2Cl2. Journal of the Physical Society of Japan, 2010, 79, 043709.	1.6	4
94	Anomalous 2D-Confined Electronic Transport in Layered Organic Charge-Glass Systems. Physical Review Letters, 2020, 125, 146601.	7.8	4
95	Magnetic excitations in an ionic spin-chain system with a nonmagnetic ferroelectric instability. Physical Review Research, 2020, 2, .	3.6	4
96	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
97	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
98	Inhomogeneous Spin State in a Spin Liquid on a Triangular Lattice under a Magnetic Field. AIP Conference Proceedings, 2006, , .	0.4	2
99	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
100	<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:m Physical Review B, 2019, 100, .	3.2	2
101	Fate of soliton matter upon symmetry-breaking ferroelectric order. Physical Review B, 2021, 103, .	3.2	2
102	Multiorbital antiferromagnetic metal induced by intramolecular self-doping. Physical Review Research, 2020, 2, .	3.6	2
103	Band-Selective NMR of a Ï€- d Hybridized Electronic System. Molecular Crystals and Liquid Crystals, 2002, 379, 95-100.	0.9	1
104	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
105	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
106	In Which Directions Do Spins Point? â€”Unexpected Orientations and Unusual Turns in an Organic Mott Insulator. JPSJ News and Comments, 2018, 15, 03.	0.1	1
107	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
108	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

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109	Enhanced lattice fluctuations prior to a nonmagnetic ferroelectric order in an ionic spin-chain system. Physical Review B, 2021, 104, .	3.2	1
110	Emergence of unconventional spin glass-like state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¹</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><mml:mi>Cl</mml:mi></mml:msub></mml:math> by introducing weak randomness. Physical Review B, 2021, 104, .	3.2	1
111	Topological Excitations in Neutralâ€“Ionic Transition Systems. Symmetry, 2022, 14, 925.	2.2	1
112	Superconductivity Emerging from Spin-Liquid Mott Insulator in Triangular Lattice System. AIP Conference Proceedings, 2006, , .	0.4	0
113	Role of Frustration in Quasi 1D Conductor â€“ Charge Ordering and/or CDW in (R1,R2-DCNQI)2M (M=Ag,) Tj ETQq1 1 0.784314 rgBT /O	1.4	0
114	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
115	Electrons Ride on a d-wave Through Pairing in a BETS Superconductor. JPSJ News and Comments, 2016, 13, 06.	0.1	0
116	Quantum Criticality of Mott Transition in Organic Materials Revealed by Tuning Pressure with Helium Medium. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2016, 26, 14-20.	0.0	0
117	A Route to Metallization of the Monumental Peierls Insulator TTF-TCNQ. JPSJ News and Comments, 2007, 4, 02.	0.1	0
118	Chapter 4. Electron Transport Near the 2D Mott Transition. , 2016, , 117-144.		0