

Fumitaka Kagawa

List of Publications by Year in descending order

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91
papers

5,245
citations

76326

40
h-index

85541

71
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94
all docs

94
docs citations

94
times ranked

5727
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-driven topological Hall effect in SrRuO ₃ -SrIrO ₃ bilayer. Science Advances, 2016, 2, e1600304.	10.3	360
2	Unconventional critical behaviour in a quasi-two-dimensional organic conductor. Nature, 2005, 436, 534-537.	27.8	272
3	Robust Formation of Skyrmions and Topological Hall Effect Anomaly in Epitaxial Thin Films of MnSi. Physical Review Letters, 2013, 110, 117202.	7.8	269
4	Ferroelectricity in a one-dimensional organic quantum magnet. Nature Physics, 2010, 6, 169-172.	16.7	203
5	Above-room-temperature ferroelectricity and antiferroelectricity in benzimidazoles. Nature Communications, 2012, 3, 1308.	12.8	199
6	Robust metastable skyrmions and their triangular square lattice structural transition in a high-temperature chiral magnet. Nature Materials, 2016, 15, 1237-1242.	27.5	196
7	Electronic Ferroelectricity in a Molecular Crystal with Large Polarization Directing Antiparallel to Ionic Displacement. Physical Review Letters, 2012, 108, 237601.	7.8	189
8	Interplay between topological and thermodynamic stability in a metastable magnetic skyrmion lattice. Nature Physics, 2016, 12, 62-66.	16.7	164
9	Microwave magnetoelectric effect via skyrmion resonance modes in a helimagnetic multiferroic. Nature Communications, 2013, 4, 2391.	12.8	163
10	Shift current photovoltaic effect in a ferroelectric charge-transfer complex. Nature Communications, 2017, 8, 281.	12.8	149
11	Displacement-Type Ferroelectricity with Off-Center Magnetic Ions in Perovskite $\text{Sr}^{1+} \text{Ba}^{x+}$ Physical Review Letters, 2011, 107, 137601.	7.8	142
12	Transport criticality of the first-order Mott transition in the quasi-two-dimensional organic conductor (BEDT)TTF ₂ Cu[N(CN) ₂]Cl. Physical Review B, 2004, 69, .	3.2	124
13	Quantized chiral edge conduction on domain walls of a magnetic topological insulator. Science, 2017, 358, 1311-1314.	12.6	112
14	Dynamics of Multiferroic Domain Wall in Spin-Cycloidal Ferroelectric DyMnO_3 Physical Review Letters, 2009, 102, 057604.	7.8	110
15	Magneto-chiral nonreciprocity of volume spin wave propagation in chiral-lattice ferromagnets. Physical Review B, 2016, 93, .	3.2	109
16	Critical phenomena of emergent magnetic monopoles in a chiral magnet. Nature Communications, 2016, 7, 11622.	12.8	97
17	Skyrmion lattice structural transition in MnSi. Science Advances, 2017, 3, e1602562.	10.3	89
18	Discretized topological Hall effect emerging from skyrmions in constricted geometry. Physical Review B, 2015, 91, .	3.2	84

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19	Stress-Induced Perpendicular Magnetization in Epitaxial Iron Garnet Thin Films. Applied Physics Express, 2012, 5, 103002.	2.4	82
20	Charge-cluster glass in an organic conductor. Nature Physics, 2013, 9, 419-422.	16.7	81
21	Propagation dynamics of spin excitations along skyrmion strings. Nature Communications, 2020, 11, 256.	12.8	81
22	Electrical magnetochiral effect induced by chiral spin fluctuations. Nature Communications, 2017, 8, 866.	12.8	76
23	Transition to and from the skyrmion lattice phase by electric fields in a magnetoelectric compound. Nature Communications, 2016, 7, 12669.	12.8	74
24	Stability of two-dimensional skyrmions in thin films of Mn _{1-x} Fe _x Si investigated by the topological Hall effect. Physical Review B, 2014, 89, .	3.2	73
25	Magnetic Mott criticality in a $\hat{\Gamma}^2$ -type organic salt probed by NMR. Nature Physics, 2009, 5, 880-884.	16.7	67
26	Quantum ferroelectricity in charge-transfer complex crystals. Nature Communications, 2015, 6, 7469.	12.8	65
27	Spontaneous Polarization and Bulk Photovoltaic Effect Driven by Polar Discontinuity in $\text{LaFeO}_3/\text{SrTiO}_3$ Heterojunctions. Physical Review Letters, 2016, 116, 156801.	7.8	62
28	Microwave Magnetochiral Dichroism in the Chiral-Lattice Magnet Cu_2OSeO_4 . Physical Review Letters, 2015, 114, 197202.	7.8	60
29	Emergent electromagnetic induction in a helical-spin magnet. Nature, 2020, 586, 232-236.	27.8	60
30	Rotation of an Electric Polarization Vector by Rotating Magnetic Field in Cycloidal Magnet $\text{Eu}_0.55\text{Mn}_0.45\text{MnO}_3$. Physical Review Letters, 2008, 101, 197207.	11.8	56
31	Room-temperature antiskyrmions and sawtooth surface textures in a non-centrosymmetric magnet with S_4 symmetry. Nature Materials, 2021, 20, 335-340.	27.5	55
32	Systematic control of stress-induced anisotropy in pseudomorphic iron garnet thin films. Journal of Magnetism and Magnetic Materials, 2013, 339, 63-70.	2.3	54
33	Aggregation and collapse dynamics of skyrmions in a non-equilibrium state. Nature Physics, 2018, 14, 832-836.	16.7	54
34	Electric-Field Control of Solitons in a Ferroelectric Organic Charge-Transfer Salt. Physical Review Letters, 2010, 104, 227602.	7.8	53
35	Polarization Switching Ability Dependent on Multidomain Topology in a Uniaxial Organic Ferroelectric. Nano Letters, 2014, 14, 239-243.	9.1	53
36	Current-Induced Nucleation and Annihilation of Magnetic Skyrmions at Room Temperature in a Chiral Magnet. Advanced Materials, 2017, 29, 1606178.	21.0	53

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37	Magnetization-polarization cross-control near room temperature in hexaferrite single crystals. Nature Communications, 2019, 10, 1247.	12.8	51
38	Current-induced dynamics of skyrmion strings. Science Advances, 2018, 4, eaat1115.	10.3	49
39	Current-induced viscoelastic topological unwinding of metastable skyrmion strings. Nature Communications, 2017, 8, 1332.	12.8	47
40	Magnetic-Field-Induced Mott Transition in a Quasi-Two-Dimensional Organic Conductor. Physical Review Letters, 2004, 93, 127001.	7.8	46
41	Formation of In-plane Skyrmions in Epitaxial MnSi Thin Films as Revealed by Planar Hall Effect. Journal of the Physical Society of Japan, 2015, 84, 104708.	1.6	40
42	Fewâ€¢Volt Operation of Printed Organic Ferroelectric Capacitor. Advanced Materials, 2015, 27, 6475-6481.	21.0	38
43	Quenching of Charge and Spin Degrees of Freedom in Condensed Matter. Advanced Materials, 2017, 29, 1601979.	21.0	38
44	Field-induced staggered magnetic moment in the quasi-two-dimensional organic Mott insulator		

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55	Phase-change memory function of correlated electrons in organic conductors. Physical Review B, 2015, 91, .	3.2	25
56	Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. Physical Review B, 2017, 96, .	3.2	25
57	Structure-Property Relationship of Supramolecular Ferroelectric [H ₆₆ mbp][Hca] Accompanied by High Polarization, Competing Structural Phases, and Polymorphs. Chemistry - A European Journal, 2014, 20, 17515-17522.	3.3	24
58	Direct observation of anisotropic magnetic field response of the spin helix in FeGe thin films. Physical Review B, 2016, 94, .	3.2	24
59	Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu ₂ OSeO ₃ . Physical Review B, 2017, 96, .	3.2	24
60	Athermal domain-wall creep near a ferroelectric quantum critical point. Nature Communications, 2016, 7, 10675.	12.8	21
61	Kinetic approach to superconductivity hidden behind a competing order. Science Advances, 2018, 4, eaau3489.	10.3	21
62	Dynamics of multiple phases in a colossal-magnetoresistive manganite as revealed by dielectric spectroscopy. Nature Communications, 2012, 3, 944.	12.8	20
63	Relaxation dynamics of multiferroic domain walls in DyMnO ₃ with cycloidal spin order. Physical Review B, 2011, 83, .	3.2	17
64	Thermal energy harvesting performance in 0.94Bi0.5Na0.5TiO ₃ -0.06BaZr0.2Ti0.8O ₃ : AlN composite ceramics based on the Olsen cycle. Journal of the European Ceramic Society, 2019, 39, 5243-5251.	5.7	17
65	Correlated Proton Transfer and Ferroelectricity along Alternating Zwitterionic and Nonzwitterionic Anthranilic Acid Molecules. Chemistry of Materials, 2015, 27, 6193-6197.	6.7	16
66	Slow steady flow of a skyrmion lattice in a confined geometry probed by narrow-band resistance noise. Physical Review B, 2019, 100, .	3.2	16
67	Dynamical Disorder of Cu^2+ -Molecular Structures Induced by Proton Dynamics in an Organic Ferroelectric Compound. Physical Review Letters, 2009, 102, 197601.	7.8	15
68	Directional electric-field induced transformation from skyrmion lattice to distinct helices in multiferroic Cu^2+ . Physical Review B, 2017, 95, .	3.2	14
69	Quantum Phenomena Emerging Near a Ferroelectric Critical Point in a Donor-Acceptor Organic Charge-Transfer Complex. Crystals, 2017, 7, 106.	2.2	12
70	Evolution of ferroelectricity in ultrathin PbTiO ₃ films as revealed by electric double layer gating. Scientific Reports, 2020, 10, 10864.	3.3	12
71	Electric double layer transistors with ferroelectric BaTiO ₃ channels. Applied Physics Letters, 2014, 104, .	3.3	11
72	Phase-transition kinetics of magnetic skyrmions investigated by stroboscopic small-angle neutron scattering. Physical Review B, 2018, 98, .	3.2	10

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73	Supramolecular Polymerization in Liquid Crystalline Media: Toward Modular Synthesis of Multifunctional Core-Shell Columnar Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 10033-10038.	13.7	9
74	Size effects on supercooling phenomena in strongly correlated electron systems: IrTe_2 and LiFeAs . <i>Physical Review B</i> , 2018, 97, .	3.2	8
75	Ferroelectric field control of charge density in oxide films with polarization reversal by electric double layer. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	8
76	Growth of visible-light-responsive ferroelectric SbSI thin films by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	8
77	Domain-wall dynamics coupled to proton motion in a hydrogen-bonded organic ferroelectric. <i>Physical Review B</i> , 2012, 85, .	3.2	7
78	Li ₂ Fe ₂ O ₄ . <i>Physical Review Letters</i> , 2014, 112, 059702.	7.8	7
79	Electrical conduction on the surface of ferroelectric PbTiO ₃ thin film induced by electrolyte gating. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	7
80	Uniaxial-stress Effects on Helimagnetic Orders and Skyrmion Lattice in Cu_2OSeO_3 . <i>Journal of the Physical Society of Japan</i> , 2018, 87, 094709.	1.6	7
81	Charge density wave dynamics in nonvolatile current-induced phase transition in $\text{S}_2\text{Te}_2\text{I}_2$. <i>Physical Review B</i> , 2019, 100, .	3.2	6
82	Kinetic pathway facilitated by a phase competition to achieve a metastable electronic phase. <i>Physical Review B</i> , 2021, 103, .	3.2	6
83	Mode locking phenomena of the current-induced skyrmion-lattice motion in microfabricated MnSi. <i>Physical Review B</i> , 2020, 102, .	3.2	6
84	Emergent phenomena in perovskite-type manganites. <i>Physica B: Condensed Matter</i> , 2012, 407, 1685-1688.	2.7	5
85	Real-Space Observation of Emergent Complexity of Phase Evolution in Micrometer-Sized IrTe ₂ Crystals. <i>Physical Review Letters</i> , 2021, 127, 145701.	7.8	5
86	Miniature Hall sensor integrated on a magnetic thin film for detecting domain wall motion. <i>Journal of Applied Physics</i> , 2013, 114, 053909.	2.5	4
87	Field-induced multiple metal-insulator crossovers of correlated Dirac electrons of perovskite CaIrO_3 . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	4
88	Mott transition in the quasi-two-dimensional $\text{Li}^+(\text{BEDT-TTF})_2\text{Cu}[\text{N}(\text{CN})_2]\text{Cl}$; Transport Criticality and Field-induced Transition. <i>Synthetic Metals</i> , 2005, 152, 413-416.	3.9	1
89	Quantum transport of topological spin solitons in a one-dimensional organic ferroelectric. <i>Physical Review B</i> , 2021, 103, .	3.2	1
90	Orbital and magnetic ordering and domain-wall conduction in ferrimagnet $\text{La}_5\text{Mo}_4\text{O}_{16}$. <i>Physical Review Research</i> , 2021, 3, .	3.6	0

#	ARTICLE	IF	CITATIONS
91	Successive Phase Transitions and Ferroelectric Domain State in Supramolecular Ferroelectric Phenazine-Chloranilic Acid. <i>Nihon Kessho Gakkaishi</i> , 2013, 55, 135-141.	0.0	0