

Kunihiko Yamauchi

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,240
citations

236925

25
h-index

223800

46
g-index

80
all docs

80
docs citations

80
times ranked

3116
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Nature of Improper Ferroelectricity in a Magnetoelectric Multiferroic. <i>Physical Review Letters</i> , 2007, 99, 227201.	7.8	282
2	Ferroelectric Switching in Multiferroic Magnetite (Fe_3O_4) Thin Films. <i>Advanced Materials</i> , 2009, 21, 4452-4455.	21.0	148
3	Exchange Bias Driven by the Dzyaloshinskii-Moriya Interaction and Ferroelectric Polarization at G -Type Antiferromagnetic Perovskite Interfaces. <i>Physical Review Letters</i> , 2009, 103, 127201.	7.8	132
4	Giant spin-driven ferroelectric polarization in TbMnO_3 under high pressure. <i>Nature Communications</i> , 2014, 5, 4927.	12.8	131
5	Interface effects at a half-metal/ferroelectric junction. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	100
6	Magnetically induced ferroelectricity in orthorhombic manganites: Microscopic origin and chemical trends. <i>Physical Review B</i> , 2008, 78, .	3.2	96
7	Direct observation of nonequivalent Fermi-arc states of opposite surfaces in the noncentrosymmetric Weyl semimetal NbP. <i>Physical Review B</i> , 2016, 93, .	3.2	91
8	Ferroelectricity in multiferroic magnetite Fe_3O_4 by noncentrosymmetric G -Type Antiferromagnetic Perovskite Interfaces. <i>Physical Review B</i> , 2009, 79, .	3.2	89
9	Magnetically driven ferroelectric atomic displacements in orthorhombic YMnO_3 . <i>Physical Review B</i> , 2011, 84, .	3.2	73
10	First-principles stabilization of an unconventional collinear magnetic ordering in distorted manganites. <i>Physical Review B</i> , 2006, 74, .	3.2	58
11	Band splitting and Weyl nodes in trigonal tellurium studied by angle-resolved photoemission spectroscopy and density functional theory. <i>Physical Review B</i> , 2017, 95, .	3.2	56
12	Microscopic mechanisms for improper ferroelectricity in multiferroic perovskites: a theoretical review. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 434208.	1.8	52
13	Topology analysis for anomalous Hall effect in the noncollinear antiferromagnetic states of Mn_3N .		

#	ARTICLE	IF	CITATIONS
19	Magnetodielectric detection of magnetic quadrupole order in Ba(TiO)Cu ₄ (PO ₄) ₄ with Cu ₄ O ₁₂ square cupolas. Nature Communications, 2016, 7, 13039.	12.8	37
20	Interplay between Charge Order, Ferroelectricity, and Ferroelasticity: Tungsten Bronze Structures as a Playground for Multiferroicity. Physical Review Letters, 2010, 105, 107202.	7.8	33
21	display="inline">B^4O Ferroelectricity due to Orbital Ordering inE-Type Undoped Rare-Earth Manganites. Physical Review Letters, 2011, 106, 077201.	3.2	31
22	Bulk Rashba effect in multiferroics: A theoretical prediction for$BiCoO_3$. Physical Review B, 2019, 100, .	7.8	29
23	Physical Review B, 2019, 100, .	3.2	29
24	Ultrathin Bismuth Film on 1T-TaS ₂ : Structural Transition and Charge-Density-Wave Proximity Effect. Nano Letters, 2018, 18, 3235-3240.	9.1	28
25	Band structure calculations and Fermi surfaces of YNi ₂ B ₂ C. Physica C: Superconductivity and Its Applications, 2004, 412-414, 225-229.	1.2	25
26	Jahn-Teller distortions as a novel source of multiferroicity. Physical Review B, 2015, 92, .	3.2	25
27	Magnetic anisotropy in Li-phosphates and origin of magnetoelectricity in$LiNiPO_4$. Physical Review B, 2010, 81, .	3.2	24
28	-cation control of magnetoelectric quadrupole order inA. Physical Review B, 2018, 97, .	3.2	21
29	nodes in the gap structure of the borocarbide superconductorYNi ₂ B ₂ C. Physical Review B, 2007, 76, .	3.2	20
30	Magnetically induced ferroelectricity inCu. Physical Review B, 2010, 82, .	3.2	20
31	Dimensionality reduction and band quantization induced by potassium intercalation inT. Physical Review Materials, 2019, 3, .	3.2	20
32	Orbital degrees of freedom as origin of magnetoelectric coupling in magnetite. Physical Review B, 2012, 85, .	3.2	19
33	Possible emergence of a skyrmion phase in ferroelectric$GaMnO_4$. Physical Review B, 2018, 98, .	3.2	18
34	Effects of strain on ferroelectric polarization and magnetism in orthorhombic HoMnO3. Physical Review B, 2013, 87, .	3.2	17
35	Evidence for bulk nodal loops and universality of Dirac-node arc surface states inX. Physical Review B, 2017, 95, .	3.2	17
36	Role of square planar coordination in the magnetic properties of Na ₄ IrO ₄ . Physical Review B, 2017, 96, .	3.2	16

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37	Theoretical Prediction of Multiferroicity in $\text{SmBaMn}_2\text{O}_6$. Journal of the Physical Society of Japan, 2013, 82, 043702.	1.6	15
38	Origin of the band dispersion in a metal phthalocyanine crystal. Physical Review B, 2014, 90, .	3.2	15
39	Ultrathin Bismuth Film on High-Temperature Cuprate Superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ as a Candidate of a Topological Superconductor. ACS Nano, 2018, 12, 10977-10983.	14.6	15
40	Beyond standard local density approximation in the study of magnetoelectric effects in Fe/BaTiO_3 and Co/BaTiO_3 interfaces. Journal of Physics Condensed Matter, 2013, 25, 066001.	1.8	14
41	Magnetic structural unit with convex geometry: A building block hosting an exchange-striction-driven magnetoelectric coupling. Physical Review Materials, 2018, 2, .	2.4	13
42	Magnetically induced ferroelectricity in TbMnO_3 : inverse Goodenough-Kanamori interaction. Journal of Physics Condensed Matter, 2009, 21, 064203.	1.8	12
43	Role of van der Waals interaction in crystalline ammonia borane. Applied Physics Letters, 2011, 99, 181904.	3.3	12
44	Superexchange interaction in the A -site ordered perovskite $\text{YMn}_3\text{O}_{12}$. Physical Review B, 2008, 78, .	3.2	12
45	De Haas-Van Alphen effect in the mixed state of LuNi_2O_7 . Anisotropy and field dependence of the damping due to superconductivity. Physical Review B, 2008, 78, .	3.2	11
46	Mechanism of Ferroelectricity in Half-Doped Manganites with Pseudocubic and Bilayer Structure. Journal of the Physical Society of Japan, 2013, 82, 113703.	1.6	11
47	Electric-field tuning of the magnetic properties of bilayer VI_3O_{10} : A first-principles study. Physical Review B, 2021, 104, .	3.2	10
48	Ab initio Investigations of $\text{Fe}^{2+}/\text{Fe}^{3+}$ Bond Dimerization and Ferroelectricity Induced by Intermediate Site/Bond-Centered Charge Ordering in Magnetite. Journal of the Physical Society of Japan, 2011, 80, 014709.	1.6	10
49	Topological phase transition coupled with spin-valley physics in ferroelectric oxide heterostructures. Physical Review B, 2017, 95, .	3.2	9
50	Charge and Spin States of Transition-Metal Atoms in a Hemoprotein Based on the Extended Haldane-Anderson Model. Journal of the Physical Society of Japan, 2003, 72, 2029-2032.	1.6	8
51	First-Principles Calculation of X-ray Absorption Spectra for the A-Site Ordered Perovskite $\text{CaCu}_3\text{Fe}_4\text{O}_{12}$. Journal of the Physical Society of Japan, 2013, 82, 094718.	1.6	8
52	Ab-initio Prediction of Magnetoelectricity in Infinite-Layer CaFeO_2 and MgFeO_2 . Journal of the Physical Society of Japan, 2014, 83, 094712.	1.6	8
53	Bandstructure and Fermi Surfaces of CeRh_3B_2 . Journal of the Physical Society of Japan, 2010, 79, 044717.	1.6	7
54	Manipulation of Dirac Cone in Topological Insulator/Topological Insulator Heterostructure. ACS Applied Electronic Materials, 2021, 3, 1080-1085.	4.3	6

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55	Dirac semimetal phase and switching of band inversion in XMg_2Bi_2 ($X = \text{Ba}$ and Sr). <i>Scientific Reports</i> , 2021, 11, 21937.	3.3	6
56	Emergent phenomena in perovskite-type manganites. <i>Physica B: Condensed Matter</i> , 2012, 407, 1685-1688.	2.7	5
57	Synthesis, Structure, and Anomalous Magnetic Ordering of the Spin-1/2 Coupled Square Tetramer System $\text{K}(\text{NbO})\text{Cu}_4(\text{PO}_4)_4$. <i>Inorganic Chemistry</i> , 2020, 59, 10986-10995.	4.0	5
58	Bandstructure calculations and Fermi surfaces of RNiBC . <i>Physica B: Condensed Matter</i> , 2005, 359-361, 597-599.	2.7	4
59	Field angle dependence of the zero-energy density of states in unconventional superconductors: analysis of the borocarbide superconductor $\text{YNi}_2\text{B}_2\text{C}$. <i>Journal of Physics: Conference Series</i> , 2009, 150, 052177.	0.4	4
60	Impact of Ferroelectric Distortion on Thermopower in BaTiO_3 . <i>Journal of the Physical Society of Japan</i> , 2015, 84, 054701.	1.6	4
61	DFT-based Engineering of Dirac Surface States in Topological-insulator Multilayers. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 094701.	1.6	4
62	Influences of Orientation on Magnetoelectric Coupling at $\text{La}^{1-x}\text{Sr}_x\text{MnO}_3/\text{BaTiO}_3$ Interface from Ab Initio Calculations. <i>Journal of Electronic Materials</i> , 2017, 46, 3808-3814.	2.2	3
63	Reversible thermally controlled spontaneous magnetization switching in perovskite-type manganite. <i>Applied Physics Letters</i> , 2020, 117, 112404.	3.3	3
64	Ta^{181} nuclear quadrupole resonance study of the noncentrosymmetric superconductor PbTaSe_2 . <i>Physical Review B</i> , 2020, 102, .	3.2	3
65	Origin of magnetovolume effect in a cobaltite. <i>Physical Review B</i> , 2021, 103, .	3.2	3
66	Modulation of Dirac electrons in epitaxial Bi_2Se_3 ultrathin films on van der Waals ferromagnet $\text{Cr}_2\text{Si}_2\text{Te}_6$. <i>Physical Review Materials</i> , 2020, 4, .	2.4	3
67	Structure and intermolecular bonding in NaBr $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$	3.2	2
68	Ab Initio Study on Pressure-Induced Phase Transition in $\text{LaCu}_3\text{Fe}_4\text{O}_{12}$. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 034709.	1.6	2
69	Unusual temperature evolution of the band structure of $\text{Bi}(111)$ studied by angle-resolved photoemission spectroscopy and density functional theory. <i>Physical Review B</i> , 2020, 102, .	3.2	2
70	Impact of Inter-site Spin-Orbit Coupling on Perpendicular Magnetocrystalline Anisotropy in Cobalt-Based Thin Films. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 114710.	1.6	2
71	Ferroelectric atomic displacement in multiferroic tetragonal perovskite $\text{Sr}_{1-x}\text{Ca}_x\text{Ti}_2\text{Fe}_2\text{O}_{10}$. <i>Physical Review Research</i> , 2020, 2, .	1.6	1
72	Highly sensitive spin-crossover transition in a metal-organic molecular crystal. <i>Physical Review B</i> , 2013, 88, .	3.2	1

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73	Pb/Bi heterostructure as a versatile platform to realize topological superconductivity. Progress of Theoretical and Experimental Physics, 0, , .	6.6	1
74	Fermi surfaces of : An LSDA+U study. Physica B: Condensed Matter, 2006, 378-380, 688-689.	2.7	0
75	Influence of lone pair doping on the multiferroic property of orthorhombic HoMnO ₃ :ab initio prediction. Journal of Physics Condensed Matter, 2013, 25, 385901.	1.8	0
76	Large magnetoresistance of a compensated metal Cu ₂ Sb correlated with its Fermi surface topology. Physical Review Materials, 2021, 5, .	2.4	0
77	First-principles Study on Piezoelectricity and Spontaneous Polarization in Bi(Fe,Co)O ₃ . Journal of the Physical Society of Japan, 2021, 90, .	1.6	0
78	First-Principles Study on Cathode Properties of Li ₂ MTiO ₄ and Na ₂ MTiO ₄ (M = V, Cr, Mn, Fe, Co, Ni). Journal of the Physical Society of Japan, 2022, 91, .	1.6	0
79	Spin-Polarized Band Structure at MoTe ₂ /Bi ₂ Se ₃ Interface Designed from First Principles. Journal of the Physical Society of Japan, 2022, 91, .	1.6	0
80	Rhombic Fermi surfaces in a ferromagnetic MnGa thin film with perpendicular magnetic anisotropy. Physical Review Materials, 2022, 6, .	2.4	0