Fumiyuki Ishii

List of Publications by Year
in descending order

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82	2,015	279487	264894
papers	citations	23 h-index	42 g-index

85	85	85	2420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ferroelectricity near room temperature in co-crystals of nonpolar organic molecules. Nature Materials, 2005, 4, 163-166.	13.3	339
2	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	13.7	162
3	First-Principles Predictions of Giant Electric Polarization. Japanese Journal of Applied Physics, 2005, 44, 7130-7133.	0.8	109
4	Phase Control of Graphene Nanoribbon by Carrier Doping: Appearance of Noncollinear Magnetism. Nano Letters, 2009, 9, 269-272.	4.5	93
5	Anomalous transport due to Weyl fermions in the chiral antiferromagnets Mn3X, Xâ€‰=â€‰Sn, Ge. Nature Communications, 2021, 12, 572.	5.8	90
6	First-principles study on the electronic structure of bismuth transition-metal oxides. Journal of Physics Condensed Matter, 2004, 16, S5677-S5683.	0.7	51
7	Thermoelectric Power in Transition-Metal Monosilicides. Journal of the Physical Society of Japan, 2007, 76, 093601.	0.7	51
8	Electronic Band Structure of the Pyrochlore Ruthenium OxidesA2Ru2O7(A=Bi, Tl and Y). Journal of the Physical Society of Japan, 2000, 69, 526-531.	0.7	49
9	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/Bi2O3 interfaces. Scientific Reports, 2018, 8, 5564.	1.6	44
10	Strain-controlled spin splitting in the conduction band of monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>WS</mml:mtext><mml:mn>2</mml:mn></mml:msub Physical Review B, 2016, 94, .	1.1	42
11	Intrinsic persistent spin Hall state in two-dimensional group-IV monochalcogenide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:m		

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19	Rashba Effect on the Structure of the Bi One-Bilayer Film: Fully Relativistic First-Principles Calculation. Japanese Journal of Applied Physics, 2013, 52, 035204.	0.8	29
20	Large anomalous Nernst effect in a skyrmion crystal. Scientific Reports, 2016, 6, 28076.	1.6	29
21	Ambient-pressure Dirac electron system in the quasi-two-dimensional molecular conductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â€“</mml:mtext><mml:msub mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	1.1	29
22	First-principles exploration of ferromagnetic and ferroelectric double-perovskite transition-metal oxides. Physica B: Condensed Matter, 2006, 383, 9-12.	1.3	27
23	Persistent spin helix on a wurtzite ZnO$(10ar{1}0)$ surface: First-principles density-functional study. Applied Physics Express, 2015, 8, 073006.	1.1	27
24	Strain-induced large spin splitting and persistent spin helix at LaAlO₃/SrTiO₃interface. Applied Physics Express, 2017, 10, 123003.	1.1	25
25	First-Principles Study on Cubic Pyrochlore Iridates Y₂Ir₂O₇ and Pr₂Ir₂O₇. Journal of the Physical Society of Japan, 2015, 84, 073703.	0.7	24
26	Doping-induced persistent spin helix with a large spin splitting in monolayer SnSe. Physical Review B, 2019, 99, .	1.1	24
27	Enhancement of the transverse thermoelectric conductivity originating from stationary points in nodal lines. Physical Review B, 2020, 102, .	1.1	23
28	First-principles study on thermoelectric properties of half-Heusler compounds CoMSb (Mâ€‰=â€‰Sc, Ti, V, Cr, and Mn). Applied Physics Letters, 2018, 113, .	1.5	22
29	First-principles calculation of lattice thermal conductivity and thermoelectric figure of merit in ferromagnetic half-Heusler alloy CoMnSb. Applied Physics Letters, 2020, 116, .	1.5	21
30	Band-Gap Tuning in Magnetic Graphene Nanoribbons. Applied Physics Express, 0, 1, 064004.	1.1	19
31	Magnetism in graphene nanoribbons on Ni(111): First-principles density functional study. Physical Review B, 2010, 82, .	1.1	19
32	Photoinduced Rashba Spin-to-Charge Conversion via an Interfacial Unoccupied State. Physical Review Letters, 2019, 122, 256401.	2.9	19
33	Relationship between Lattice Deformation and Polarization in BaTiO3. Japanese Journal of Applied Physics, 2001, 40, 5809-5811.	0.8	18
34	First-principles study of electric-field-induced topological phase transition in one-bilayer Bi(111). Japanese Journal of Applied Physics, 2018, 57, 030309.	0.8	17
35	Tunable spin splitting and spin lifetime in polar WSTe monolayer. Japanese Journal of Applied Physics, 2018, 57, 04FP01.	0.8	17
36	Spin splitting with persistent spin textures induced by the line defect in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mi>T</mml:mi></mml:math> phase of monolayer transition metal dichalcogenides. Physical Review B, 2020, 101, .	1.1	17

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37	Implementation of Generalized Bloch Theorem Using Linear Combination of Pseudo-Atomic Orbitals. Journal of the Physical Society of Japan, 2018, 87, 114709.	0.7	14
38	First-principles Study of Spiral Spin Density Waves in Monolayer MnCl₂ Using Generalized Bloch Theorem. Journal of the Physical Society of Japan, 2019, 88, 104705.	0.7	14
39	Realization of Spin-dependent Functionality by Covering a Metal Surface with a Single Layer of Molecules. Nano Letters, 2019, 19, 7119-7123.	4.5	14
40	Electronic Band Structure and Gap Formation in CeRhAs. Journal of the Physical Society of Japan, 2004, 73, 145-151.	0.7	12
41	First-principles study of carrier-induced ferromagnetism in bilayer and multilayer zigzag graphene nanoribbons. Applied Physics Letters, 2014, 104, .	1.5	12
42	First-principles study of anomalous Nernst effect in half-metallic iron dichloride monolayer. APL Materials, 2020, 8, .	2.2	12
43	Large band splitting with tunable spin polarization in the two-dimensional ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ga</mml:mi><mml:mi>X</mml:mi><mml:mi>Y</mml:mi>		

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55	First-principles study of surface states in topological insulators Bi₂Te₃and Bi₂Se₃: film thickness dependence. Molecular Simulation, 2015, 41, 892-895.	0.9	8
56	Highly persistent spin textures with giant tunable spin splitting in the two-dimensional germanium monochalcogenides. Journal of Physics Condensed Matter, 2021, 33, 305501.	0.7	8
57	First-principles Study of Spin-wave Excitations of 3d Transition Metals with Linear Combination of Pseudo-atomic Orbitals. Journal of the Physical Society of Japan, 2019, 88, 054701.	0.7	7
58	Edge States of Bi Nanoribbons on Bi Substrates: First-Principles Density Functional Study. Japanese Journal of Applied Physics, 2012, 51, 025201.	0.8	7
59	Magnetism in Dehydrogenated Armchair Graphene Nanoribbon. Journal of the Physical Society of Japan, 2011, 80, 044712.	0.7	6
60	Edge States of Bi Nanoribbons on Bi Substrates: First-Principles Density Functional Study. Japanese Journal of Applied Physics, 2012, 51, 025201.	0.8	6
61	Contribution of Berry Curvature to Thermoelectric Effects. , 2014, , .		6
62	First-Principle Studies on Elastic Properties and Spontaneous Polarizations of PbTiO3. Japanese Journal of Applied Physics, 2001, 40, 5806-5808.	0.8	5
63	Electronic structures of CeRhAs and CeRhSb. Physica B: Condensed Matter, 2003, 328, 154-156.	1.3	5
64	Filling dependence of thermoelectric power in transition-metal monosilicides. , 2007, , .		5
65	Electric-field-induced Z 2 topological phase transition in strained single bilayer Bi(111). Applied Physics Express, 2019, 12, 075009.	1.1	5
66	Carrier-induced noncollinear magnetism in perovskite manganites by first-principles calculations. Journal of Physics Condensed Matter, 2009, 21, 064246.	0.7	4
67	First-principles study of spontaneous polarisation and water dipole moment in ferroelectric ice XI. Molecular Simulation, 2012, 38, 369-372.	0.9	4
68	Spinâ€“Orbit Interaction Effects in the Electronic Structure of B20-Type CoSi: First-Principles Density Functional Study. , 2014, , .		4
69	First-principles study of Rashba effect in ultra-thin bismuth surface alloys. Journal of Crystal Growth, 2017, 468, 688-690.	0.7	3
70	Simple Model for Corrugation in Surface Alloys Based on First-Principles Calculations. Materials, 2020, 13, 4444.	1.3	3
71	First-principles study of the angle-dependent magnetoresistance oscillation in Sr2RuO4. Physica B: Condensed Matter, 2000, 281-282, 784-785.	1.3	2
72	First-Principles Study of Exchange Interaction in Ising-Type Multiferroic Ca3CoMnO6. , 2014, , .		2

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73	First-principles Study of Rashba Spin Splitting at Strained SrTiO₃(001) Surfaces. E-Journal of Surface Science and Nanotechnology, 2018, 16, 360-363.	0.1	2
74	First-Principles Design of the Spinel Iridate Ir2O4 for High-Temperature Quantum Spin Ice. Physical Review Letters, 2019, 122, 067201.	2.9	2
75	First-Principles Study of Topological InsulatorsA2B3(A= Bi and Sb, andB= O, S, Se, and Te). , 2015, , .		1
76	Thermopower of Doped Quantum Anomalous Hall Insulators: The case of Dirac Hamiltonian. , 2015, , .		1
77	First-principles study of Rashba effect in the (LaAlO3)2/(SrTiO3)2. Molecular Simulation, 2015, 41, 923-926.	0.9	1
78	Electric Field Dependence of Topological Edge States in One-Bilayer Bi(111): A First-Principles Study. E-Journal of Surface Science and Nanotechnology, 2018, 16, 427-430.	0.1	1
79	Contribution of Pb to Ferroelectricity in Perovskite-type Oxides. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
80	Relativistic Effect on the Bistability of Bi {012} Nanofilms. E-Journal of Surface Science and Nanotechnology, 2009, 7, 13-16.	0.1	0
81	First-principles calculation of anomalous muonium in silicon: origin of the negative Fermi contact interaction constant. Japanese Journal of Applied Physics, 2019, 58, 081008.	0.8	0
82	Statistical analysis of properties of non-fullerene acceptors for organic photovoltaics. Japanese Journal of Applied Physics, 0, , .	0.8	0