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	Giant 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>		

#	Article	IF	Citations
19	First-Principles Design of the Spinel Iridate Ir2O4 for High-Temperature Quantum Spin Ice. Physical Review Letters, 2019, 122, 067201.	2.9	2
20	Doping-induced persistent spin helix with a large spin splitting in monolayer SnSe. Physical Review B, 2019, 99, .	1.1	24
21	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/Bi2O3 interfaces. Scientific Reports, 2018, 8, 5564.	1.6	44
22	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
23	Tunable spin splitting and spin lifetime in polar WSTe monolayer. Japanese Journal of Applied Physics, 2018, 57, 04FP01.	0.8	17
24	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
25	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
26	Large anomalous Nernst coefficient in an oxide skyrmion crystal Chern insulator. Physical Review B, 2018, 98, .	1.1	10
27	Anisotropic thermoelectric effect on phosphorene and bismuthene: first-principles calculations based on nonequilibrium Greenâ€™s function theory. Japanese Journal of Applied Physics, 2018, 57, 125201.	0.8	10
28	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
29	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
30	Strong Rashba effect in the localized impurity states of halogen-doped monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2018, 97, .	1.1	34
31	Polarity tuning of spin-orbit-induced spin splitting in two-dimensional transition metal dichalcogenides. Journal of Applied Physics, 2017, 122, .	1.1	31
32	Defect-induced large spin-orbit splitting in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2017, 96, .	1.1	39
33	Strain-induced large spin splitting and persistent spin helix at LaAlO₃/SrTiO₃interface. Applied Physics Express, 2017, 10, 123003.	1.1	25
34	First-principles study of Rashba effect in ultra-thin bismuth surface alloys. Journal of Crystal Growth, 2017, 468, 688-690.	0.7	3
35	Spin-split bands of metallic hydrogenated ZnO (101Â¯) surface: First-principles study. AIP Advances, 2016, 6, .	0.6	9
36	Large anomalous Nernst effect in a skyrmion crystal. Scientific Reports, 2016, 6, 28076.	1.6	29

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37	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	12
38	First-principles calculations of multivacancies in germanium. Japanese Journal of Applied Physics, 2016, 55, 011301.	0.8	9
39	First-Principles Study of Topological InsulatorsA2B3(A= Bi and Sb, andB= O, S, Se, and Te). , 2015, , .		1
40	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
41	Thermopower of Doped Quantum Anomalous Hall Insulators: The case of Dirac Hamiltonian. , 2015, , .		1
42	First-Principles Study on Cubic Pyrochlore Iridates Y₂Ir₂O₇ and Pr₂Ir₂O₇. Journal of the Physical Society of Japan, 2015, 84, 073703.	0.7	24
43	First-principles study of Rashba effect in the (LaAlO3)2/(SrTiO3)2. Molecular Simulation, 2015, 41, 923-926.	0.9	1
44	First-principles study of surface states in topological insulators Bi₂Te₃and Bi₂Se₃: film thickness dependence. Molecular Simulation, 2015, 41, 892-895.	0.9	8
45	Contribution of Berry Curvature to Thermoelectric Effects. , 2014, , .		6
46	First-Principles Study of Exchange Interaction in Ising-Type Multiferroic Ca3CoMnO6. , 2014, , .		2
47	Magnetism-Driven Electric Polarization of Multiferroic Quasi-One-Dimensional Ca₃CoMnO₆: First-Principles Study Using Density Functional Theory. Journal of the Physical Society of Japan, 2014, 83, 124711.	0.7	10
48	Tunable Rashba effect on strained ZnO: First-principles density-functional study. Applied Physics Express, 2014, 7, 053002.	1.1	10
49	First-principles study of carrier-induced ferromagnetism in bilayer and multilayer zigzag graphene nanoribbons. Applied Physics Letters, 2014, 104, .	1.5	12
50	Spinâ€“Orbit Interaction Effects in the Electronic Structure of B20-Type CoSi: First-Principles Density Functional Study. , 2014, , .		4
51	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
52	Edge States of Bi Nanoribbons on Bi Substrates: First-Principles Density Functional Study. Japanese Journal of Applied Physics, 2012, 51, 025201.	0.8	6
53	First-principles study of spontaneous polarisation and water dipole moment in ferroelectric ice XI. Molecular Simulation, 2012, 38, 369-372.	0.9	4
54	Edge States of Bi Nanoribbons on Bi Substrates: First-Principles Density Functional Study. Japanese Journal of Applied Physics, 2012, 51, 025201.	0.8	7

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55	Magnetism in Dehydrogenated Armchair Graphene Nanoribbon. Journal of the Physical Society of Japan, 2011, 80, 044712.	0.7	6
56	Magnetism in graphene nanoribbons on Ni(111): First-principles density functional study. Physical Review B, 2010, 82, .	1.1	19
57	Relativistic Effect on the Bistability of Bi {012} Nanofilms. E-Journal of Surface Science and Nanotechnology, 2009, 7, 13-16.	0.1	0
58	Carrier-induced noncollinear magnetism in perovskite manganites by first-principles calculations. Journal of Physics Condensed Matter, 2009, 21, 064246.	0.7	4
59	Phase Control of Graphene Nanoribbon by Carrier Doping: Appearance of Noncollinear Magnetism. Nano Letters, 2009, 9, 269-272.	4.5	93
60	Electronic and Thermoelectric Properties of the Intermetallic CompoundsMNiSn (M=Ti,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	38
61	Two-Staged Magnetoresistance Driven by the Ising-Like Spin Sublattice inSrCo6O11. Physical Review Letters, 2007, 98, 217201.	2.9	32
62	Filling dependence of thermoelectric power in transition-metal monosilicides. , 2007, , .		5
63	Thermoelectric Power in Transition-Metal Monosilicides. Journal of the Physical Society of Japan, 2007, 76, 093601.	0.7	51
64	First-principles exploration of ferromagnetic and ferroelectric double-perovskite transition-metal oxides. Physica B: Condensed Matter, 2006, 383, 9-12.	1.3	27
65	Covalent ferroelectricity in hydrogen-bonded organic molecular systems. Physical Review B, 2006, 73, .	1.1	29
66	Ferroelectricity near room temperature in co-crystals of nonpolar organic molecules. Nature Materials, 2005, 4, 163-166.	13.3	339
67	First-Principles Predictions of Giant Electric Polarization. Japanese Journal of Applied Physics, 2005, 44, 7130-7133.	0.8	109
68	Electronic Band Structure and Gap Formation in CeRhAs. Journal of the Physical Society of Japan, 2004, 73, 145-151.	0.7	12
69	Photoemission study of electronic structure and metal-semiconductor transition in pyrochlore-typeTl2Ru2O7. Physical Review B, 2004, 69, .	1.1	8
70	Contribution of Pb to Ferroelectricity in Perovskite-Type Oxides. Ferroelectrics, 2004, 301, 49-53.	0.3	8
71	First-principles study of electronic structure and thermoelectric properties of CeRhAs and related compounds. Physica B: Condensed Matter, 2004, 351, 316-318.	1.3	8
72	First-principles study on the electronic structure of bismuth transition-metal oxides. Journal of Physics Condensed Matter, 2004, 16, S5677-S5683.	0.7	51

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73	Electronic structures of CeRhAs and CeRhSb. Physica B: Condensed Matter, 2003, 328, 154-156.	1.3	5
74	First-Principles Calculation of Spontaneous Polarization and Phase Stability in NaNO2. Journal of the Physical Society of Japan, 2002, 71, 336-339.	0.7	11
75	Contribution of Pb to Ferroelectricity in Perovskite-type Oxides. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
76	Relationship between Lattice Deformation and Polarization in BaTiO3. Japanese Journal of Applied Physics, 2001, 40, 5809-5811.	0.8	18
77	First-Principle Studies on Elastic Properties and Spontaneous Polarizations of PbTiO3. Japanese Journal of Applied Physics, 2001, 40, 5806-5808.	0.8	5
78	First-principles study of the angle-dependent magnetoresistance oscillation in Sr2RuO4. Physica B: Condensed Matter, 2000, 281-282, 784-785.	1.3	2
79	Electronic States of Perovskite-Type Oxides and Ferroelectricity. Japanese Journal of Applied Physics, 2000, 39, 5679-5682.	0.8	40
80	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
81	Band-Gap Tuning in Magnetic Graphene Nanoribbons. Applied Physics Express, 0, 1, 064004.	1.1	19
82	Statistical analysis of properties of non-fullerene acceptors for organic photovoltaics. Japanese Journal of Applied Physics, 0, , .	0.8	0