

Hidekazu Saito

List of Publications by Year in descending order

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papers

3,220
citations

218592

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89
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docs citations

89
times ranked

2850
citing authors

#	ARTICLE	IF	CITATIONS
1	High throughput fabrication of transition-metal-doped epitaxial ZnO thin films: A series of oxide-diluted magnetic semiconductors and their properties. Applied Physics Letters, 2001, 78, 3824-3826.	1.5	575
2	Room-Temperature Ferromagnetism in a II-VI Diluted Magnetic Semiconductor $Zn_{1-x}Cr_xTe$. Physical Review Letters, 2003, 90, 207202.	2.9	400
3	Magneto-optical properties of ZnO-based diluted magnetic semiconductors. Journal of Applied Physics, 2001, 89, 7284-7286.	1.1	284
4	Thermal spin current from a ferromagnet to silicon by Seebeck spin tunnelling. Nature, 2011, 475, 82-85.	13.7	218
5	Large magneto-optical effect in an oxide diluted magnetic semiconductor $Zn_{1-x}Co_xO$. Applied Physics Letters, 2001, 78, 2700-2702.	1.5	173
6	Origin of the Tunnel Anisotropic Magnetoresistance in $Ga_{1-x}Mn_xAs/ZnSe/Ga_{1-x}Mn_xAs$ Magnetic Tunnel Junctions of II-VI/III-V Heterostructures. Physical Review Letters, 2005, 95, 086604.	2.9	114
7	Origin of the Anomalous Magnetic Circular Dichroism Spectral Shape in Ferromagnetic Impurity Bands inside the Band Gap. Physical Review Letters, 2008, 100, 067204.	2.9	95
8	Ferromagnetism in II-VI diluted magnetic semiconductor $Zn_{1-x}Cr_xTe$. Journal of Applied Physics, 2002, 91, 8085.	1.1	76
9	Electrical creation of spin accumulation in n -type germanium. Solid State Communications, 2011, 151, 1159-1161.	0.9	68
10	Optical properties and functions of dilute magnetic semiconductors. Journal of Physics Condensed Matter, 2004, 16, S5541-S5548.	0.7	65
11	Magneto-optical studies of ferromagnetism in the II-VI diluted magnetic semiconductor $Zn_{1-x}Cr_xTe$. Physical Review B, 2002, 66, 200401.	1.1	60
12	Control of magnetic properties of epitaxial $Mn_{5-x}Ge_{x-3}C_3$. Physical Review B, 2002, 66, 200401.	1.1	60
13	Magnetization-dependent loss in an (Al,Ga)As optical waveguide with an embedded Fe micromagnet. Optics Letters, 2010, 35, 931.	1.7	57
14	Room-temperature ferromagnetism in highly Cr-doped II-VI diluted magnetic semiconductor $Zn_{1-x}Cr_xTe$. Journal of Applied Physics, 2003, 93, 6796-6798.	1.1	56
15	Injection and detection of spin in a semiconductor by tunneling via interface states. Physical Review B, 2012, 85, .	1.1	47
16	Giant Spin Accumulation in Silicon Nonlocal Spin-Transport Devices. Physical Review Applied, 2017, 8, .	1.5	47
17	Large spin accumulation voltages in epitaxial $M_n G_{5-n} C_3$ contacts	1.1	43
18	Anomalous scaling of spin accumulation in ferromagnetic tunnel devices with silicon and germanium. Physical Review B, 2014, 89, .	1.1	43

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19	Magnetic and transport properties of III ^V diluted magnetic semiconductor Ga _{1-x} CrxAs. Journal of Applied Physics, 2001, 89, 7392-7394.	1.1	41
20	Voltage tuning of thermal spin current in ferromagnetic tunnel contacts to semiconductors. Nature Materials, 2014, 13, 360-366.	13.3	40
21	Thermal spin current and magnetothermopower by Seebeck spin tunneling. Physical Review B, 2012, 85, .	1.1	37
22	Itinerant-electron metamagnetism of the Laves-phase compounds Lu(Co _{1-x} Gax) ₂ under high pressures with high magnetic fields. Physical Review B, 1999, 59, 8725-8731.	1.1	30
23	Spin Accumulation and Spin Lifetime in p-Type Germanium at Room Temperature. Applied Physics Express, 2012, 5, 053004.	1.1	29
24	High Magnetoresistance in Fully Epitaxial Magnetic Tunnel Junctions with a Semiconducting GaO Barrier. Physical Review Applied, 2016, 6, .	1.5	29
25	Itinerant-electron metamagnetism and the onset of ferromagnetism in Laves phase compounds. Journal of Physics Condensed Matter, 1997, 9, 9333-9346.	0.7	28
26	Spin dynamics and freezing in magnetic rare-earth quasicrystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 238, 197-202.	0.9	27
27	Spin Accumulation in Nondegenerate and Heavily Doped p-Type Germanium. Applied Physics Express, 2012, 5, 023003.	1.1	25
28	Itinerant-electron metamagnetism and magneto-volume effects in Lu(Co _{1-x} Al _x) ₂ Laves phase compounds. Journal of Physics Condensed Matter, 2001, 13, 9281-9300.	0.7	24
29	Magnetic phase diagrams of itinerant-electron metamagnetic Lu(Co _{1-x} M _x) ₂ (M=Al and Ga) Laves-phase compounds. Physical Review B, 2001, 64, .	1.1	24
30	Tunnel magnetoresistance effect in CrTe ₂ AlAsGaMnAs magnetic tunnel junctions. Journal of Applied Physics, 2005, 97, 10D305.	1.1	23
31	Magnetoresistance in a room temperature ferromagnetic diluted magnetic semiconductor Zn _{1-x} CrxTe. Journal of Applied Physics, 2004, 95, 7175-7177.	1.1	20
32	Anisotropy of spin polarization and spin accumulation in Si/AlGaO ₃ /ferromagnet tunnel devices. Physical Review B, 2012, 86, .	1.1	20
33	Universal linear relation between the critical field and the inverse susceptibility for Co-based Laves-phase metamagnets. Solid State Communications, 2000, 113, 447-450.	0.9	19
34	Spin-polarized tunneling in metal-insulator-semiconductor FeZnSeGaMnAs magnetic tunnel diodes. Applied Physics Letters, 2006, 89, 232502.	1.5	18
35	Efficient spin injection into semiconductor from an Fe/GaOx tunnel injector. Applied Physics Letters, 2010, 96, .	1.5	18
36	High tunneling magnetoresistance in Fe/GaOx/GaMnAs with metal/insulator/semiconductor structure. Applied Physics Letters, 2008, 93, .	1.5	14

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37	Local electronic structure of Cr in the II ^{VI} diluted ferromagnetic semiconductor Zn _{1-x} Cr _x Te. New Journal of Physics, 2008, 10, 055011.	1.2	14
38	Electrical spin injection in p-type Si using Fe/MgO contacts. Proceedings of SPIE, 2012, , .	0.8	14
39	Metamagnetic Transition in GdSi. Journal of the Physical Society of Japan, 1996, 65, 1938-1940.	0.7	12
40	Room-temperature magnetoresistance in magnetic tunnel junctions with Fe ₃ O ₄ electrode. Journal of Applied Physics, 2007, 101, 09J511.	1.1	12
41	Localized s ^d exchange interaction in ferromagnetic Ga _{1-x} Mn _x As observed by magnetic circular dichroism spectroscopy of L _{2,3} critical points. Journal Physics D: Applied Physics, 2014, 47, 355001.	1.3	12
42	Low effective barrier height of GaO _x tunnel barrier in metal/semiconductor hybrid junctions. Applied Physics Letters, 2009, 94, 152101.	1.5	10
43	Concentration dependence of the magnetic properties of melt-quenched P-type Mg ₃₀ Gd _x Zn _{70-x} quasicrystals. Journal of Alloys and Compounds, 1997, 252, 6-11.	2.8	9
44	Hot electron transport in magnetic tunnel transistors with an epitaxial MgO tunnel barrier. Applied Physics Letters, 2010, 96, 112509.	1.5	9
45	Effective Creation of Spin Polarization in p-Type Ge from a Fe/GeO ₂ Tunnel Contact. Japanese Journal of Applied Physics, 2013, 52, 04CM01.	0.8	9
46	Investigation on the formation process of single-crystalline GaO _x barrier in Fe/GaO _x /MgO/Fe magnetic tunnel junctions. Journal Physics D: Applied Physics, 2017, 50, 435001.	1.3	9
47	Epitaxial growth of MgO/Ga ₂ O ₃ heterostructure and its band alignment studied by X-ray photoemission spectroscopy. Japanese Journal of Applied Physics, 2018, 57, 070304.	0.8	9
48	Tunneling Magnetoresistance and Spin-Dependent Diode Performance in Fully Epitaxial Magnetic Tunnel Junctions With a Rocksalt ZnO Bilayer Tunnel Barrier. Physical Review Applied, 2019, 11, .	1.5	9
49	X-ray Magnetic Circular Dichroism and Photoemission Study of the Diluted Ferromagnetic Semiconductor Zn _{1-x} Cr _x Te. Applied Physics Express, 2008, 1, 041301.	1.1	8
50	Zeeman splittings near the L _{2,3} point of the Brillouin zone in zinc-blende semiconductors. Physical Review B, 2008, 77, .	1.1	7
51	Highly Enhanced Electron-Injection Efficiency in GaAs-Based Light-Emitting Diodes Using a Fe/GaO _x Tunnel Injector. Applied Physics Express, 0, 2, 083003.	1.1	7
52	Ando et al. Reply. Physical Review Letters, 2009, 102, .	2.9	7
53	Anomalous Zeeman splittings of II ^{VI} diluted magnetic semiconductors at L-critical points. Journal of Applied Physics, 2011, 109, 07C304.	1.1	7
54	Room-temperature side-gate-induced current modulation in a magnetic tunnel junction with an oxide-semiconductor barrier for vertical spin MOSFET operation. Applied Physics Express, 2019, 12, 023009.	1.1	7

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73	Itinerant-electron metamagnetism and onset of weak ferromagnetism in laves phase $Y(\text{Co}_{1-x}\text{Gax})_2$ compounds. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 431-434.	1.0	2
74	Effect of spin fluctuations on thermal expansion characteristics in paramagnetic Laves-phase $\text{Lu}(\text{Co}_{1-x}\text{Gax})_2$ compounds. Physical Review B, 2005, 71, .	1.1	2
75	Reducing Schottky barrier height for Fe/n-GaAs junction by inserting thin GaOx layer. Journal of Applied Physics, 2011, 109, 07C701.	1.1	2
76	Origin of Very Low Effective Barrier Height in Magnetic Tunnel Junctions with a Semiconductor $\text{GaO}_{x/2}$ Tunnel Barrier. Japanese Journal of Applied Physics, 2011, 50, 113002.	0.8	2
77	Fabrication of Ge-based light-emitting diodes with a ferromagnetic metal/insulator tunnel contact. Japanese Journal of Applied Physics, 2015, 54, 04DM02.	0.8	2
78	Growth condition dependence of photoluminescence polarization in (100) GaAs/AlGaAs quantum wells at room temperature. Journal of Applied Physics, 2015, 118, 083901.	1.1	2
79	Observation of Magnetoresistance Effect in n -Type Non-Degenerate Germanium With $\text{Co}_2\text{Fe}_{0.4}\text{Mn}_{0.6}\text{Si}$ Heusler Alloy Electrodes. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	2
80	Structural, electrical, magnetic and low-temperature specific heat studies of PrPb_2 . Journal of Alloys and Compounds, 1998, 264, 24-30.	2.8	1
81	Spin-polarized tunneling in fully epitaxial magnetic tunnel diodes with a narrow-gap $\text{In}_{1-x}\text{MnxAs}$ electrode. Applied Physics Letters, 2009, 95, 192508.	1.5	1
82	Photonic integration of plasmonic Magneto-optical waveguide and Si nanowire waveguide. , 2017, , .		1
83	Improvements of surface morphology and electrical transport properties of single-crystalline $\text{In}_2\text{O}_3(111)$ thin films by postgrowth annealing. Japanese Journal of Applied Physics, 2019, 58, 030909.	0.8	1
84	Spin signals in Si non-local transport devices with giant spin accumulation. , 2017, , .		1
85	Thermal Expansion Characteristics Associated with Spin Fluctuations under Applied Magnetic Field and High Pressure for $\text{Lu}(\text{Co}_{0.9}\text{Ga}_{0.1})_2$ Laves-Phase Compound. Journal of the Physical Society of Japan, 2007, 76, 84-85.	0.7	0
86	Thermal creation of a spin current by Seebeck spin tunneling. , 2013, , .		0
87	Suppression of spin transport in ferromagnet/oxide/semiconductor junctions by magnetic impurities in the tunnel barrier. Applied Physics Express, 2016, 9, 103001.	1.1	0
88	Structural and magneto-transport properties of lattice-mismatched epitaxial $\text{Fe}/\text{SrO}/\text{MgO}/\text{Fe}$ magnetic tunnel junctions. Japanese Journal of Applied Physics, 2020, 59, 103001.	0.8	0