

Hiroyuki Akinaga

List of Publications by Year in descending order

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times ranked

5182
citing authors

#	ARTICLE	IF	CITATIONS
1	Resistive Random Access Memory (ReRAM) Based on Metal Oxides. Proceedings of the IEEE, 2010, 98, 2237-2251.	16.4	860
2	Material Design of Half-Metallic Zinc-Blende CrAs and the Synthesis by Molecular-Beam Epitaxy. Japanese Journal of Applied Physics, 2000, 39, L1118-L1120.	0.8	411
3	Nonpolar resistance switching of metal/binary-transition-metal oxides/metal sandwiches: Homogeneous/inhomogeneous transition of current distribution. Physical Review B, 2008, 77, .	1.1	229
4	Crystal chemistry and physical properties of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ ($0 \leq x \leq 1.6$). Materials Research Bulletin, 1990, 25, 293-306.	2.7	169
5	Resistance switching in the metal deficient-type oxides: NiO and CoO. Applied Physics Letters, 2007, 91, .	1.5	150
6	Fabrication, magnetic properties, and electronic structures of nanoscale zinc-blende MnAs dots (invited). Journal of Applied Physics, 2002, 91, 8088.	1.1	130
7	X-Ray Diffraction Study on the Crystal Structure of $\text{Nd}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_{7-\delta}$. Japanese Journal of Applied Physics, 1988, 27, L57-L60.	0.8	113
8	Semiconductor spintronics. IEEE Nanotechnology Magazine, 2002, 1, 19-31.	1.1	112
9	Magneto-optical properties and the potential application of GaAs with magnetic MnAs nanoclusters. Applied Physics Letters, 2000, 76, 97-99.	1.5	104
10	Spin-polarized light-emitting diode using metal/insulator/semiconductor structures. Applied Physics Letters, 2002, 81, 694-696.	1.5	99
11	Epitaxial growth of zinc-blende CrAs/GaAs multilayer. Journal of Applied Physics, 2002, 91, 7917.	1.1	96
12	Magnetic Properties of Monodispersed Ni/NiO Core-Shell Nanoparticles. Journal of Physical Chemistry B, 2005, 109, 13403-13405.	1.2	96
13	Negative magnetoresistance in GaAs with magnetic MnAs nanoclusters. Applied Physics Letters, 1998, 72, 3368-3370.	1.5	95
14	Voltage polarity dependent low-power and high-speed resistance switching in CoO resistance random access memory with Ta electrode. Applied Physics Letters, 2008, 93, 113504.	1.5	89
15	Tunable scaling behaviour observed in Barkhausen criticality of a ferromagnetic film. Nature Physics, 2007, 3, 547-550.	6.5	82
16	Hole Concentration Compensation Effect and Superconducting Properties of $\text{Nd}_{1+x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_{7-\delta}$. Japanese Journal of Applied Physics, 1988, 27, L67-L69.	0.8	76
17	Growth and characterization of low-temperature grown GaN with high Fe doping. Applied Physics Letters, 2000, 77, 4377-4379.	1.5	71
18	Switchable rectifier built with Pt/TiO _x /Pt trilayer. Applied Physics Letters, 2009, 94, .	1.5	71

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19	Magnetic-field-controllable avalanche breakdown and giant magnetoresistive effects in $\text{GaIn}_{0.5}\text{As}$ -semi-insulating-GaAs Schottky diode. <i>Applied Physics Letters</i> , 2004, 85, 5643-5645.	1.5	68
20	Recent advances and future prospects in energy harvesting technologies. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 110201.	0.8	68
21	Room-temperature thousandfold magnetoresistance change in MnSb granular films: Magnetoresistive switch effect. <i>Applied Physics Letters</i> , 2000, 76, 357-359.	1.5	66
22	A magnetic force microscope using CoFe-coated carbon nanotube probes. <i>Nanotechnology</i> , 2005, 16, 24-27.	1.3	66
23	Electrical Spin Injection from Out-of-Plane Magnetized FePt/MgO Tunneling Junction into GaAs at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L4-L6.	0.8	62
24	Control of resistance switching voltages in rectifying $\text{Pt}/\text{TiO}_2/\text{Pt}$ trilayer. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	58
25	Research Updates: The three M's (materials, metrology, and modeling) together pave the path to future nanoelectronic technologies. <i>APL Materials</i> , 2013, 1, .	2.2	58
26	Relation between Superconducting T_c and Hole Concentration: Hall Effect Measurement and Chemical Analysis in Charge-Doped and Oxygen-Doped System $\text{Nd}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Japanese Journal of Applied Physics</i> , 1988, 27, L1676-L1678.	0.8	54
27	Crystal Structure of the High T_c Superconductor $\text{LnBa}_2\text{Cu}_3\text{O}_{7-\delta}$ (Ln=Sm, Eu and Gd). <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1410-L1412.	0.8	51
28	Fabrication and magneto-optical properties of epitaxial ferromagnetic Mn_{1-x}Sb thin films grown on GaAs and sapphire. <i>Journal of Crystal Growth</i> , 1995, 150, 1144-1149.	0.7	51
29	Charge transfer and superconductivity in $\text{Nd}(\text{Ba}_{1-x}\text{Nd}_x)_2\text{Cu}_3\text{O}_{7+x}$ prepared in high pressure oxygen. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 191, 509-514.	0.6	47
30	Synthesis and Characterization of Pt/Co δ /Pt Trilayer Exhibiting Large Reproducible Resistance Switching. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L57-L60.	0.8	47
31	Correlation of T_c with Hole Concentration in Copper-Oxide Superconductors; Hall Effect Measurement in $\text{Nd}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Japanese Journal of Applied Physics</i> , 1988, 27, L607-L609.	0.8	44
32	Structure and properties of $\text{YBaSrCu}_3\text{O}_y$ ($y=6.2\sim 7.3$). <i>Physica C: Superconductivity and Its Applications</i> , 1989, 157, 358-364.	0.6	43
33	Epitaxial MnGa/(Mn,Ga,As)/MnGa trilayers: Growth and magnetic properties. <i>Applied Physics Letters</i> , 1996, 69, 711-713.	1.5	42
34	Vortex-chirality control in mesoscopic disk magnets observed by photoelectron emission microscopy. <i>Journal of Applied Physics</i> , 2005, 97, 10J904.	1.1	42
35	Molecular beam epitaxy of ferromagnetic Fe_4N thin films on $\text{LaAlO}_3(1\ 0\ 0)$, $\text{SrTiO}_3(1\ 0\ 0)$ and $\text{MgO}(1\ 0\ 0)$ substrates. <i>Journal of Crystal Growth</i> , 2011, 322, 63-68.	0.7	40
36	Magneto-optical response of nanoscaled cobalt dots array. <i>Applied Physics Letters</i> , 1996, 68, 3040-3042.	1.5	38

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37	Rectifying characteristic of Pt/TiOx/metal/Pt controlled by electronegativity. Applied Physics Letters, 2010, 96, .	1.5	38
38	Crystal orientation dependence on magnetic circular dichroism spectra of MnSb epitaxial film. Applied Physics Letters, 1995, 67, 141-143.	1.5	37
39	Recent Advances and Future Prospects in Functional-Oxide Nanoelectronics: The Emerging Materials and Novel Functionalities that are Accelerating Semiconductor Device Research and Development. Japanese Journal of Applied Physics, 2013, 52, 100001.	0.8	37
40	Spin and orbital magnetic moments of molecular beam epitaxy $\text{Fe}_2\text{Fe}_4\text{N}$ films on $\text{LaAlO}_3(001)$ and $\text{MgO}(001)$ substrates by x-ray magnetic circular dichroism. Applied Physics Letters, 2011, 98, .	1.5	36
41	CoFe-Coated Carbon Nanotube Probes for Magnetic Force Microscope. Japanese Journal of Applied Physics, 2005, 44, 2077-2080.	0.8	35
42	Epitaxial growth and magnetic characterization of ferromagnetic Co_4N thin films on $\text{SrTiO}_3(001)$ substrates by molecular beam epitaxy. Journal of Crystal Growth, 2011, 336, 40-43.	0.7	35
43	Crystallographic and magneto-optical studies of nanoscaled MnSb dots grown on GaAs. Applied Physics Letters, 2000, 76, 1743-1745.	1.5	32
44	Epitaxial growth of new half-metallic ferromagnet zinc-blende CrAs and the substrate temperature dependence. Journal of Magnetism and Magnetic Materials, 2002, 239, 269-271.	1.0	32
45	Crystal Structure of $\text{Ba}_2\text{HoCu}_3\text{O}_{7-x}$ Determined by Neutron Powder Diffraction. Japanese Journal of Applied Physics, 1987, 26, L1341-L1343.	0.8	31
46	Laser ablation synthesis of monodispersed magnetic alloy nanoparticles. Journal of Nanoparticle Research, 2006, 8, 371-378.	0.8	31
47	Growth of ferromagnetic semiconductor: $(\text{Ga},\text{Cr})\text{As}$. Journal of Applied Physics, 2002, 91, 7908.	1.1	29
48	ReRAM technology; challenges and prospects. IEICE Electronics Express, 2012, 9, 795-807.	0.3	29
49	$\text{Cu}_2\text{O}/\text{ZnO}$ Heterojunction Solar Cells Fabricated by Magnetron-Sputter Deposition Method Films Using Sintered Ceramics Targets. Journal of Physics: Conference Series, 2013, 433, 012027.	0.3	29
50	Superconductivity Transition and Crystal Structure of the High- T_c and High- H_c2 Superconductor $\text{DyBa}_2\text{Cu}_3\text{O}_{7-y}$. Japanese Journal of Applied Physics, 1987, 26, L1023-L1025.	0.8	28
51	Magnetization process of a nanometer-scale cobalt dots array formed on a reconstructed $\text{Au}(111)$ surface. Journal of Magnetism and Magnetic Materials, 1997, 165, 38-41.	1.0	28
52	Room-temperature photoinduced magnetoresistance effect in GaAs including MnSb nanomagnets. Applied Physics Letters, 2000, 76, 2600-2602.	1.5	28
53	Real-time direct observation of asymmetric magnetization reversal in exchange-biased single-layer systems. Physical Review B, 2005, 71, .	1.1	27
54	Local chemical state change in $\text{Co}^{\text{II}}\text{O}$ resistance random access memory. Physica Status Solidi - Rapid Research Letters, 2008, 2, 99-101.	1.2	27

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55	Variation of Superconducting Properties with Hole Concentration in the Solid Solution Systems of $\text{Sm}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$ and $\text{Eu}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$. Japanese Journal of Applied Physics, 1988, 27, L610-L612.	0.8	26
56	Local structural, magnetic and magneto-optical properties of Mn-doped SiC films prepared on a 3C-SiC(001) wafer. New Journal of Physics, 2008, 10, 055006.	1.2	26
57	Observation of step-induced magnetic domain formation in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films by photoelectron emission microscopy. Applied Physics Letters, 2006, 89, 112505.	1.5	25
58	Sharp Superconductivity Transition at 94 K in $\text{HoBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{ErBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Japanese Journal of Applied Physics, 1987, 26, L854-L855.	0.8	24
59	Molecular beam epitaxy of $\text{Mn}_{1-x}\text{Sb}_x$ thin films and substrate temperature dependence of their magneto-optical properties. Applied Physics Letters, 1996, 68, 2890-2892.	1.5	24
60	Density-dependent electronic structure of zinc-blende-type MnAs dots on GaAs(001) studied by in situ photoemission spectroscopy. Physical Review B, 2004, 70, .	1.1	24
61	Superconducting properties and their relation with the hole concentration of $\text{La}_{1-x}\text{Ba}_x\text{Cu}_3\text{O}_{7-\delta}$ system. Physica C: Superconductivity and Its Applications, 1989, 161, 581-588.	0.6	23
62	X-ray magnetic circular dichroism of ferromagnetic Co_4N epitaxial films on $\text{SrTiO}_3(001)$ substrates grown by molecular beam epitaxy. Applied Physics Letters, 2011, 99, 252501.	1.5	23
63	Hierarchical Three-Dimensional Layer-by-Layer Assembly of Carbon Nanotube Wafers for Integrated Nanoelectronic Devices. Nano Letters, 2012, 12, 4540-4545.	4.5	23
64	Anisotropic Upper Critical Fields of Orthorhombic Single Phase $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Studied Using Preferentially Oriented Pellets. Japanese Journal of Applied Physics, 1987, 26, L1323-L1325.	0.8	22
65	Structural and magnetic properties of epitaxial (0001) MnSb thin films grown on (111) B GaAs: Influence of interface quality. Applied Physics Letters, 1997, 70, 2472-2474.	1.5	22
66	Influence of GaAs (001) surface termination on the in-plane magnetic anisotropies of MnSb epitaxial films. Applied Physics Letters, 1998, 73, 3285-3287.	1.5	22
67	Characterization of Mn-doped 3C-SiC prepared by ion implantation. Journal of Applied Physics, 2007, 101, 09N510.	1.1	22
68	Enhancement in ordering of $\text{Fe}_{50}\text{Pt}_{50}$ film caused by Cr and Cu additives. Journal of Applied Physics, 2009, 106, 033907.	1.1	21
69	Effect of Annealing Temperature on TiO_2 -Based Thin-Film-Transistor Performance. IEEE Electron Device Letters, 2012, 33, 1009-1011.	2.2	21
70	Hard X-ray Photoelectron Emission Microscopy as Tool for Studying Buried Layers. Japanese Journal of Applied Physics, 2006, 45, 1886-1888.	0.8	20
71	Investigation of switching mechanism in HfO_x -ReRAM under low power and conventional operation modes. Scientific Reports, 2016, 6, 39510.	1.6	20
72	Magnetoresistive switch effect in metal/semiconductor hybrid granular films: extremely huge magnetoresistance effect at room temperature. Semiconductor Science and Technology, 2002, 17, 322-326.	1.0	19

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73	Reactive Ion Etching Process of Transition-Metal Oxide for Resistance Random Access Memory Device. Japanese Journal of Applied Physics, 2008, 47, 6931.	0.8	19
74	Zinc-blende CrAs/GaAs multilayers grown by molecular-beam epitaxy. Journal of Physics Condensed Matter, 2004, 16, S5549-S5553.	0.7	18
75	Origin of perpendicular magnetic anisotropy and evolution of magnetic domain structure of amorphous Pr ²⁺ TM ²⁺ B (TM=Fe, Co) films. Journal of Magnetism and Magnetic Materials, 2010, 322, 900-908.	1.0	18
76	Two-dimensional confinement effect on Mn ²⁺ intraionic transition. Journal of Luminescence, 1997, 72-74, 342-343.	1.5	17
77	Exchange splittings of Mn- and Sb-derived states by spin-resolved valence-band photoemission of MnSb. Physical Review B, 1998, 57, R689-R692.	1.1	17
78	Enhanced magneto-optical response of magnetic nanoclusters embedded in semiconductor. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 470-472.	1.0	17
79	Nanosecond excitonic spin relaxation in cubic GaN. Applied Physics Letters, 2006, 88, 162114.	1.5	17
80	Growth condition dependence of spin-polarized electroluminescence in Fe ²⁺ /MgO/light-emitting diodes. Journal of Applied Physics, 2007, 102, 083914.	1.1	17
81	Superconductivity Transition of High-T _c YBaCuO Systems with Multi- and Single-Phase; T _c and H _{c2} . Japanese Journal of Applied Physics, 1987, 26, 1043.	0.8	17
82	Crystal Structure of Ba ₂ ErCu ₃ O _{7-x} Determined by Neutron Powder Diffraction. Japanese Journal of Applied Physics, 1987, 26, L1681-L1683.	0.8	16
83	Epitaxial Mn ₂ Sb thin films grown by molecular-beam epitaxy on (001) GaAs and their magnetic and magneto-optical properties. Applied Physics Letters, 1997, 70, 2046-2048.	1.5	16
84	Observation of antiferromagnetic coupling in $\hat{\Gamma}$ -MnGa/(Mn,Ga,As)/ $\hat{\Gamma}$ -MnGa trilayers. Journal of Magnetism and Magnetic Materials, 1997, 165, 149-152.	1.0	16
85	Focus on advanced materials for energy harvesting: prospects and approaches of energy harvesting technologies. Science and Technology of Advanced Materials, 2018, 19, 543-544.	2.8	16
86	Magnetic properties and domain structures of FeSiB thin films. Surface Science, 2004, 556, 33-38.	0.8	15
87	Thickness-dependent magnetic domain change in epitaxial MnAs films on GaAs(001). Applied Physics Letters, 2006, 89, 232506.	1.5	15
88	Anomalous temperature-dependent exchange bias in Fe films deposited on Si substrates with the native oxide layer. Journal of Applied Physics, 2008, 103, 093914.	1.1	15
89	Temperature dependence of interlayer coupling in $\hat{\Gamma}$ -MnGa/(Ga,As,Mn)/ $\hat{\Gamma}$ -MnGa trilayers. Journal of Applied Physics, 1997, 81, 5345-5347.	1.1	14
90	Ga segregation in MnSb epitaxial growth on GaAs (100) and (111)B substrates. Physical Review B, 2001, 64,	1.1	14

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91	Fluorescence x-ray absorption fine structure study on local structures around Fe atoms heavily doped in GaN by low-temperature molecular-beam epitaxy. Applied Physics Letters, 2001, 78, 2470-2472.	1.5	14
92	Characterization of room temperature ferromagnetic Mn ²⁺ Si compound synthesized on SiC substrate. Journal of Applied Physics, 2006, 99, 08J506.	1.1	14
93	Advantages of CNT ⁺ MFM probes in observation of domain walls of soft magnetic materials. Surface Science, 2007, 601, 5289-5293.	0.8	14
94	Two-dimensional critical scaling behavior of Barkhausen avalanches (invited). Journal of Applied Physics, 2008, 103, 07D907.	1.1	14
95	Origin of uniaxial magnetic anisotropy in epitaxial MnAs film on GaAs(001) substrate. Applied Physics Letters, 2008, 92, 082503.	1.5	14
96	Mechanism of the performance improvement of TiO ₂ -based field-effect transistor using SiO ₂ as gate insulator. AIP Advances, 2011, 1, .	0.6	14
97	Three-Dimensional Nanoconfinement Supports Verwey Transition in Fe ₃ O ₄ Nanowire at 10 nm Length Scale. Nano Letters, 2019, 19, 5003-5010.	4.5	14
98	Investigation of Statistical Metal-Insulator Transition Properties of Electronic Domains in Spatially Confined VO ₂ Nanostructure. Crystals, 2020, 10, 631.	1.0	14
99	Optical properties and dynamical behavior of localized and bound excitons in Cd _{1-x} MnxTe (x=4%) grown by molecular-beam epitaxy. Physical Review B, 1992, 46, 13136-13141.	1.1	13
100	Control of the crystal orientation of zinc-blende MnTe epitaxial films grown on GaAs. Journal of Applied Physics, 1993, 74, 746-748.	1.1	13
101	Formation and structural investigation of MnSb dots on S-passivated GaAs(001) substrates. Journal of Crystal Growth, 2000, 209, 552-555.	0.7	13
102	Epitaxial Growth of Ferromagnetic Fe ₃ Si Films on CaF ₂ /Si(111) by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2005, 44, L715-L717.	0.8	13
103	Structural, magnetic, and magnetotransport properties of Mn-Si films synthesized on a4H ⁺ SiC(0001)wafer. Physical Review B, 2007, 75, .	1.1	13
104	Fabrication and Current-Voltage Characteristics of Fe ₃ Si/CaF ₂ /Fe ₃ Si Magnetic Tunnel Junction. Japanese Journal of Applied Physics, 2008, 47, 6310-6311.	0.8	13
105	CaF ₂ /Fe ₃ Si/CaF ₂ Ferromagnetic Resonant Tunneling Diodes on Si(111) by Molecular Beam Epitaxy. Applied Physics Express, 2009, 2, 063006.	1.1	13
106	Observation of magnetic domain structures in epitaxial MnAs film on GaAs(001) with temperature hysteresis. Applied Physics Letters, 2011, 98, .	1.5	13
107	Optical study of the magnetic phase transition in Cd _{1-x} Mn _x Te. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 2029-2030.	1.0	12
108	Magnetic properties of transparent SiC:Mn films synthesized on SiC substrates. Journal of Magnetism and Magnetic Materials, 2007, 310, 2141-2143.	1.0	12

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109	Resistive switching effect in metal/insulator/metal heterostructures and its application for non-volatile memory. IEEJ Transactions on Electrical and Electronic Engineering, 2007, 2, 453-457.	0.8	12
110	Direct Observation of a Systematic Change of the Magnetic-Domain Structure With Temperature in 50-nm-MnAs/GaAs(001). IEEE Transactions on Magnetics, 2008, 44, 3241-3243.	1.2	12
111	Fabrication and magnetotransport properties of nanoscaled MnSb dots. Journal of Applied Physics, 2000, 87, 5639-5641.	1.1	11
112	Magnetoresistive switch effect in MnSb granular films grown on sulfur-passivated GaAs: more-than 10 000% magnetoresistance effect at room-temperature. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 447-451.	1.3	11
113	Laser synthesis and magnetic properties of monodispersed core-shell nanoparticles. Applied Physics A: Materials Science and Processing, 2004, 79, 1165-1167.	1.1	11
114	Enhanced coercive field of cobalt film deposited on noodle-like porous silicon substrates. Applied Physics Letters, 2005, 86, 181904.	1.5	11
115	Real-time direct observation of temperature-dependent domain reversal behavior in epitaxial MnAs film on GaAs(001). Applied Physics Letters, 2006, 88, 122509.	1.5	11
116	Power-law scaling behavior in Barkhausen avalanches of ferromagnetic thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2599-2603.	1.0	11
117	Feedback Electromigration Assisted by Alternative Voltage Operation for the Fabrication of Facet-Edge Nanogap Electrodes. ACS Applied Nano Materials, 2020, 3, 4077-4083.	2.4	11
118	Correlation between the signs of the magnetoresistance and of the interlayer coupling in MnGa/(Mn,Ga,As)/MnGa trilayers. Applied Physics Letters, 1997, 71, 971-973.	1.5	10
119	Lifetime and Spin Relaxation Time Measurements of Micro-Fabricated GaAs Tips. Japanese Journal of Applied Physics, 2000, 39, 7093-7096.	0.8	10
120	Interlayer coupling and magnetoresistance of MnGa-based trilayers with semiconducting, antiferromagnetic, and ferrimagnetic spacer layers. Physical Review B, 2001, 63, .	1.1	10
121	Materials Design of Cr-Based Half-Metallic Ferromagnets. Journal of Superconductivity and Novel Magnetism, 2003, 16, 27-29.	0.5	10
122	Fluorescence extended X-ray absorption fine structure analysis of half-metallic ferromagnet zinc-blende CrAs grown on GaAs by molecular beam epitaxy. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 227-230.	0.6	10
123	Thickness dependence of magnetic domains of MnAs films. Surface Science, 2006, 600, 4155-4159.	0.8	10
124	Epitaxial Growth and Magnetic Properties of Fe ₃ Si/CaF ₂ /Fe ₃ Si Tunnel Junction Structures on CaF ₂ /Si(111). Japanese Journal of Applied Physics, 2007, 46, L904-L906.	0.8	10
125	Scanning Tunneling Microscopy Study of Ultrathin Fe Films Grown on GaAs(001) Surface. Japanese Journal of Applied Physics, 1995, 34, 1119-1122.	0.8	9
126	Ultrafast energy transfer in manganese-doped ZnSe. Journal of Luminescence, 1997, 72-74, 106-107.	1.5	9

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127	Schottky barrier height of MnSb(0001)/GaAs(111)B contacts: Influence of interface structure. Journal of Applied Physics, 2000, 88, 2043-2047.	1.1	9
128	Reactive Ion Etching of NiFe Thin Films from First-Principles Study: A Case Study. Japanese Journal of Applied Physics, 2005, 44, 893-894.	0.8	9
129	Growth and characterization of Mn-doped cubic-GaN. Physica B: Condensed Matter, 2006, 376-377, 658-662.	1.3	9
130	Epitaxial growth of Fe ₃ Si/CaF ₂ /Fe ₃ Si magnetic tunnel junction structures on CaF ₂ /Si(111) by molecular beam epitaxy. Thin Solid Films, 2007, 515, 8254-8258.	0.8	9
131	First-principles calculations-based model for the reactive ion etching of metal oxide surfaces. Vacuum, 2008, 83, 599-601.	1.6	9
132	Room temperature magnetoresistance in Fe ₃ Si/CaF ₂ /Fe ₃ Si MTJ epitaxially grown on Si(111). Journal of Physics: Conference Series, 2011, 266, 012088.	0.3	9
133	The advantages of the magnetic structure in ferromagnetic-film-coated carbon nanotube probes. Nanotechnology, 2012, 23, 035501.	1.3	9
134	Electrode Material Dependence of Resistance Change Behavior in Ta ₂ O ₅ Resistive Analog Neuromorphic Device. IEEE Journal of the Electron Devices Society, 2018, 6, 1220-1226.	1.2	9
135	From Memory to Sensor: Ultralow Power and High Selectivity Hydrogen Sensor Based on ReRAM Technology. IEEE Transactions on Electron Devices, 2018, 65, 5189-5194.	1.6	9
136	Single-Molecular Bridging in Static Metal Nanogap Electrodes Using Migrations of Metal Atoms. Journal of Physical Chemistry C, 2020, 124, 14007-14015.	1.5	9
137	Atomic layer epitaxy of ZnSe using reflectance difference spectroscopy. Applied Surface Science, 1994, 82-83, 298-304.	3.1	8
138	Control of the Schottky barrier height in epitaxial magnetic MnAs/n-GaAs and MnSb/n-GaAs contacts. Journal of Crystal Growth, 2001, 227-228, 852-856.	0.7	8
139	THICKNESS DEPENDENCE OF PHOTOEMISSION SPECTRA IN ZINC-BLENDE CrAs. Surface Review and Letters, 2002, 09, 331-334.	0.5	8
140	Synthesis of magnetic CoPt/SiO ₂ nano-composite by pulsed laser ablation. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 182, 342-345.	2.0	8
141	Magnetic domain structure of a technically patterned ferromagnetic La _{0.6} Sr _{0.4} MnO ₃ thin film. Applied Physics Letters, 2007, 91, 182503.	1.5	8
142	Synthesis of magnetic CoPt/SiO ₂ core-shell nanoparticles. Journal of Physics: Conference Series, 2007, 59, 255-258.	0.3	8
143	Switchable Pt/TiO _{2-x} /Pt Schottky Diodes. Japanese Journal of Applied Physics, 2009, 48, 05DF03.	0.8	8
144	Improved Reproducibility in CaF ₂ /Fe ₃ Si/CaF ₂ Ferromagnetic Resonant Tunneling Diodes on Si(111) Substrates by Selected-Area Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2010, 49, 060212.	0.8	8

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145	Metal-nanocluster equipped GaAs surfaces designed for high-sensitive magnetic field sensors. Surface Science, 2002, 514, 145-150.	0.8	7
146	Au/GaAs Magnetoresistive-Switch-Effect Devices Fabricated by Wet Etching. Japanese Journal of Applied Physics, 2004, 43, 2101-2103.	0.8	7
147	Magnetization-induced Second-Harmonic Generation in Magnetic Semiconductor (Ga,Mn)As. Journal of the Physical Society of Japan, 2004, 73, 2389-2392.	0.7	7
148	Spin-polarized surface state of MnSb(001). New Journal of Physics, 2005, 7, 111-111.	1.2	7
149	Vortex chirality control in mesoscopic disk magnets observed by a newly developed mobile PEEM system. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 741-744.	0.8	7
150	2-Inch 4H-SiC Homoepitaxial Layer Grown on On-Axis C-Face Substrate by CVD Method. Materials Science Forum, 2005, 483-485, 93-96.	0.3	7
151	Perpendicular magnetic properties of CoCr films on GaAs. Journal of Applied Physics, 2005, 97, 023907.	1.1	7
152	First Principles Based Investigation of Materials for Resistive RAM. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1976-1979.	0.4	7
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