

Hiro Munekata

List of Publications by Year in descending order

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106
papers

3,502
citations

304743

22
h-index

138484

58
g-index

108
all docs

108
docs citations

108
times ranked

2173
citing authors

#	ARTICLE	IF	CITATIONS
1	Lateral-Type Spin-Photonics Devices: Development and Applications. <i>Micromachines</i> , 2021, 12, 644.	2.9	15
2	Magnetic field enhanced detection of coherent phonons in a GaMnAs/GaAs film. <i>Physical Review B</i> , 2020, 102, .	3.2	2
3	Ultrafast demagnetization of ferromagnetic semiconductor InMnAs by dual terahertz and infrared excitations. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	9
4	Modeling and Optimization of Refracting-Facet Spin-Photodiodes Based on Ferromagnetic Metal-Insulator-Semiconductor Tunnel Junctions. <i>Spin</i> , 2020, 10, .	1.3	3
5	Monte Carlo simulation of scattered circularly polarized light in biological tissues for detection technique of abnormal tissues using spin-polarized light emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SEEG03.	1.5	23
6	Far- and midinfrared excitation of large amplitude spin precession in the ferromagnetic semiconductor InMnAs. <i>Physical Review B</i> , 2020, 101, .	3.2	3
7	Spin Injection From EuS/Co Multilayers Into GaAs Detected by Polarized Electroluminescence. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 14.	2.1	0
8	Arbitrary helicity control of circularly polarized light from lateral-type spin-polarized light-emitting diodes at room temperature. <i>Applied Physics Express</i> , 2018, 11, 053003.	2.4	15
9	Imaging in-plane 90° magnetization switching in a (Ga,Mn)As epitaxial layer. <i>Journal of Applied Physics</i> , 2018, 124, 063901.	2.5	0
10	A lateral-type spin-photodiode based on Fe/x-AlO_x/p-InGaAs junctions with a refracting-facet side window. <i>Journal of Applied Physics</i> , 2018, 123, 213903.	2.5	7
11	Pure circular polarization electroluminescence at room temperature with spin-polarized light-emitting diodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1783-1788.	7.1	65
12	Investigation of helicity-dependent photocurrent at room temperature from a Fe/x-AlO_x/p-GaAs Schottky junction with oblique surface illumination. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CN05.	1.5	12
13	Progress in the room temperature operation of GaAs-based lateral-type spin-PD in near-infrared wavelength region. , 2017, .		2
14	Mechanism of photoexcited precession of magnetization in (Ga,Mn)As on the basis of time-resolved spectroscopy. <i>Physical Review B</i> , 2016, 93, .	3.2	10
15	Enhancement of magneto-optical effect via the evanescent wave and its figure of merit. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07MF03.	1.5	1
16	Room temperature spin injection into (110) GaAs quantum wells using Fe/x-AlO_x contacts in the regime of current density comparable to laser oscillation. <i>Journal of Applied Physics</i> , 2015, 118, 163905.	2.5	8
17	Demonstration of polarization modulated signals in a multi-mode GdFe-silica hybrid fiber. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	1
18	Probe of the Band Structure of MBE Grown p-Type InMnAs at Ultrahigh Magnetic Fields. <i>Spin</i> , 2015, 05, 1550002.	1.3	5

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37	Coherent manipulation of magnetization precession in ferromagnetic semiconductor (Ga,Mn)As with successive optical pumping. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	32
38	Photoinduced Precession of Magnetization in Ferromagnetic (Ga,Mn)As. <i>Physical Review Letters</i> , 2008, 100, 067202.	7.8	100
39	Semiconductor waveguide optical isolators incorporating ferromagnetic epitaxial MnX (X=As or Sb)., 2008, ,.	0	
40	High Temperature Operation of TM-mode Nonreciprocal-Loss Waveguide Optical Isolator with Ferromagnetic MnSb. , 2007, ,.	0	
41	Temperature dependence of terahertz emission from InMnAs. <i>Applied Physics Letters</i> , 2007, 90, 012103.	3.3	8
42	Temperature dependent and magnetic field dependent terahertz spectroscopy of In_{1-x}Mn_xAs. , 2007, ,.	0	
43	Ultrafast magneto-optics in ferromagnetic III-V semiconductors. <i>Journal of Physics Condensed Matter</i> , 2006, 18, R501-R530.	1.8	85
44	Spin-dependent Transport in Spin-photodiode Consisting of a p-n III-V Heterojunction. , 2006, ,.	0	
45	Preparation of ferromagnetic (In,Mn)As with a high Curie temperature of 90K. <i>Applied Physics Letters</i> , 2006, 89, 042507.	3.3	80
46	Transport Properties of Ferromagnetic Semiconductors with Superconducting Electrodes. <i>AIP Conference Proceedings</i> , 2006, ,.	0.4	0
47	Ferromagnetic (In,Mn)As epitaxial films with Curie temperature of 90 K. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 4066-4069.	0.8	2
48	Photo-induced changes in magnetization orientation in (Ga,Mn)As observed directly by a scanning laser magneto-optical microscope. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 4263-4266.	0.8	6
49	Consideration and detection of spin-dependent transport across semiconductor heterojunction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 4196-4199.	0.8	0
50	Domain structure and magnetotransport properties in (Ga,Mn)As wires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 4090-4093.	0.8	0
51	Photoemission and X-ray absorption studies of the electronic structure of GaN-based diluted magnetic semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 1696-1700.	1.5	7
52	Room-Temperature Photomagnetic Effect of Fe ₃ Ga ₄ Grown on GaAs Substrates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2006, 18, 321-324.	0.5	4
53	Optical phenomena in magnetic semiconductors. , 2006, , 1-42.	5	
54	1-3 Multimedia Storage. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , 2006, 60, 1178-1185.	0.1	0

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55	Magnetization reversal with domain-wall pinning in (Ga, Mn)As wire. IEEE Transactions on Magnetics, 2005, 41, 2742-2744.	2.1	3
56	Magnetization Reversal by Electrical Spin Injection in Ferromagnetic (Ga,Mn)As-Based Magnetic Tunnel Junctions. Journal of Superconductivity and Novel Magnetism, 2005, 18, 3-7.	0.5	1
57	Photoinduced Magnetization Rotation and Precessional Motion of Magnetization in Ferromagnetic (Ga,Mn)As. Journal of Superconductivity and Novel Magnetism, 2005, 18, 9-13.	0.5	28
58	Influence of light on ferromagnetic semiconductors: magnetization rotation via the angular momentum and the photon energy. AIP Conference Proceedings, 2005, , .	0.4	1
59	Effect of Ga+ irradiation on magnetic and magnetotransport properties in (Ga,Mn)As epilayers. Journal of Applied Physics, 2005, 97, 10D302.	2.5	7
60	Correlation between ferromagnetism and hole localization in very thin (Ga,Mn)As epilayers. Journal of Applied Physics, 2005, 97, 10D301.	2.5	2
61	Propagating coherent acoustic phonon wave packets in $\text{In}_{\text{x}}\text{Mn}_{1-\text{x}}\text{As} \cdot \text{GaSb}$. Physical Review B, 2005, 72, .	3.2	31
62	Theory of carrier dynamics and time resolved reflectivity in $\text{In}_{\text{x}}\text{Mn}_{1-\text{x}}\text{As} \cdot \text{GaSb}$ heterostructures. Physical Review B, 2005, 72, .	3.2	17
63	Ultrafast Quenching of Ferromagnetism in InMnAs Induced by Intense Laser Irradiation. Physical Review Letters, 2005, 95, 167401.	7.8	94
64	High-energy spectroscopic study of the III-V nitride-based diluted magnetic semiconductor $\text{Ga}_{1-\text{x}}\text{Mn}_{\text{x}}\text{N}$. Physical Review B, 2005, 72, .	3.2	66
65	Ultrafast optical and magneto-optical studies of III-V ferromagnetic semiconductors. Journal of Modern Optics, 2004, 51, 2771-2780.	1.3	24
66	Dynamics of photoinduced magnetization rotation in ferromagnetic semiconductor-(Ga,Mn)As. Physical Review B, 2004, 69, .	3.2	64
67	Anisotropic Magnetotransport due to Uniaxial Magnetic Anisotropy in (Ga,Mn)As Wires. IEEE Transactions on Magnetics, 2004, 40, 2682-2684.	2.1	3
68	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 107-110.	0.5	8
69	Alloying (In,Mn)As and (Ga,Mn)As: Ferromagnetic (In,Ga,Mn)As Lattice-Matched to InP. Journal of Superconductivity and Novel Magnetism, 2003, 16, 45-49.	0.5	2
70	(Ga,Mn)N : Sn Epilayers. Journal of Superconductivity and Novel Magnetism, 2003, 16, 103-106.	0.5	4
71	Rotation of Ferromagnetically Coupled Mn Spins in (Ga,Mn)As by Hole Spins. Journal of Superconductivity and Novel Magnetism, 2003, 16, 411-414.	0.5	1
72	Ultrafast Optical Manipulation of Ferromagnetic Order in InMnAs/GaSb. Journal of Superconductivity and Novel Magnetism, 2003, 16, 373-377.	0.5	18

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73	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 439-442.	0.5	3
74	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 449-452.	0.5	5
75	Ultrafast photoinduced softening in a ferromagnetic semiconductor. , 2003, , .	0	
76	Relation among concentrations of incorporated Mn atoms, ionized Mn acceptors, and holes in $\text{In}_x\text{Ga}_{1-x}\text{Mn}_y\text{As}$ epilayers. Journal of Applied Physics, 2003, 93, 4603-4609.	2.5	49
77	Control of magnetic anisotropy and magnetotransport in epitaxial micropatterned $(\text{Ga}, \text{Mn})\text{As}$ wire structures. IEEE Transactions on Magnetics, 2003, 39, 2785-2787.	2.1	9
78	MAGNETIZATION REVERSAL BY OPTICAL SPIN INJECTION AND ITS MEMORIZATION EFFECT IN $(\text{Ga}, \text{Mn})\text{As}$ THIN FILMS. , 2003, , .	0	
79	Effect of Optical Spin Injection on Ferromagnetically Coupled Mn Spins in the III-V Magnetic Alloy Semiconductor $(\text{Ga}, \text{Mn})\text{As}$. Physical Review Letters, 2002, 88, 137202.	7.8	157
80	Local structure and chemical valency of Mn impurities in wide-band-gap III-V magnetic alloy semiconductors $\text{Ga}_1-x\text{Mn}_x\text{N}$. Applied Physics Letters, 2001, 79, 3926-3928.	3.3	95
81	Infrared optical conductivity of $\text{In}_{1-x}\text{Mn}_x\text{As}$. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 215-218.	2.7	31
82	Photoinduced Magnetism in Semiconductor-Based Structures. Journal of Superconductivity and Novel Magnetism, 2001, 14, 205-210.	0.5	4
83	Influence of intermolecular distance on optical property in polydiacetylene crystalline films. Applied Physics Letters, 2001, 78, 1352-1354.	3.3	1
84	Observation of reversed hysteresis loops and negative coercivity in granular $\text{GaAs}-\text{Fe}$ hybrid structures. Journal of Applied Physics, 2001, 89, 7015-7017.	2.5	9
85	Title is missing!. Journal of Materials Science: Materials in Electronics, 2000, 11, 7-10.	2.2	7
86	Electronic structure, growth, and structural and magnetic properties of magnetic semiconductor Fe/GaAs heterostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1397.	1.6	5
87	Surface smoothing of GaAs microstructure by atomic layer epitaxy. Applied Physics Letters, 1999, 74, 964-966.	3.3	14
88	A study on a novel smoothing method by atomic layer epitaxy for microstructure fabrication. , 1999, , .	0	
89	Ferromagnetic Order Induced by Photogenerated Carriers in Magnetic III-V Semiconductor Heterostructures of $(\text{In}, \text{Mn})\text{As}/\text{GaSb}$. Physical Review Letters, 1997, 78, 4617-4620.	7.8	600
90	Growth and optical properties of strained $(\text{AlP})_n$ $(\text{GaP})_n$ short-period superlattices. Journal of Electronic Materials, 1996, 25, 1801-1805.	2.2	0

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91	X-ray scattering and absorption studies of MnAs/GaAs heterostructures. Journal of Applied Physics, 1996, 79, 1435-1440.	2.5	15
92	X-Ray Scattering and Absorption Studies of MnAs Thin Films Grown by MBE on GaAs (001) Substrates. Materials Research Society Symposia Proceedings, 1995, 399, 29.	0.1	1
93	Optically pumped ZnSe-based vertical cavity surface emitter with SiO ₂ /TiO ₂ multilayer reflector. Journal of Applied Physics, 1995, 78, 4784-4786.	2.5	10
94	Atomic layer epitaxy of AlAs using ethyldimethylamine alane as a new aluminum source. Applied Physics Letters, 1994, 65, 1115-1117.	3.3	11
95	High-p-type doping of ZnSe using Li ₃ N diffusion. Applied Physics Letters, 1994, 65, 2437-2438.	3.3	17
96	Investigation of Local Structures Around Mn Atoms in In _{1-x} Mn _x As Diluted Magnetic Semiconductors Using Exafs. Materials Research Society Symposia Proceedings, 1994, 375, 27.	0.1	0
97	Preparation of (In,Mn)As/(Ga,Al)Sb magnetic semiconductor heterostructures and their ferromagnetic characteristics. Applied Physics Letters, 1993, 63, 2929-2931.	3.3	166
98	Diluted magnetic III-V semiconductors. Physical Review Letters, 1989, 63, 1849-1852.	7.8	1,018
99	Electroluminescence in hydrogenated amorphous silicon-carbon alloy. Applied Physics Letters, 1983, 42, 432-434.	3.3	82
100	Radiative and Non-Radiative Recombination Processes of Photo-Generated Carriers in a-SixCl _{1-x} : H (x≈0.2). Journal of the Physical Society of Japan, 1983, 52, 3985-3991.	1.6	14
101	White photoluminescence of amorphous silicon-carbon alloy prepared by glow-discharge decomposition of tetramethylsilane. Applied Physics Letters, 1980, 37, 536-537.	3.3	79
102	Ultrafast optical manipulation of ferromagnetic order in InMnAs/GaSb. , 0, , .	0	0
103	Control of magnetic features in epitaxial micro-patterned (Ga,Mn)As wire structures. , 0, , .	0	0
104	Design and fabrication of the spin-photodiode based on non-magnetic III-V semiconductor heterostructures. , 0, , .	0	0
105	Ultrafast demagnetization in ferromagnetic InMnAs. , 0, , .	0	0
106	Semiconductor Waveguide Optical Isolator Incorporating Ferromagnetic Epitaxial MnSb for High Temperature Operation. Applied Physics Express, 0, 1, 022002.	2.4	28