

Takayuki Makino

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112
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79
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119
ext. papers

6,611
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
112	Repeated temperature modulation epitaxy for p-type doping and light-emitting diode based on ZnO. <i>Nature Materials</i> , 2004 , 4, 42-46	27	1830
111	Band gap engineering based on $Mg_xZn_{1-x}O$ and $Cd_yZn_{1-y}O$ ternary alloy films. <i>Applied Physics Letters</i> , 2001 , 78, 1237-1239	3.4	589
110	Single crystalline ZnO films grown on lattice-matched $ScAlMgO_4(0001)$ substrates. <i>Applied Physics Letters</i> , 1999 , 75, 2635-2637	3.4	230
109	Room-temperature stimulated emission of excitons in ZnO/(Mg, Zn)O superlattices. <i>Applied Physics Letters</i> , 2000 , 77, 2204-2206	3.4	224
108	Room-temperature luminescence of excitons in ZnO/(Mg, Zn)O multiple quantum wells on lattice-matched substrates. <i>Applied Physics Letters</i> , 2000 , 77, 975	3.4	201
107	Exciton spectra of ZnO epitaxial layers on lattice-matched substrates grown with laser-molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2000 , 76, 3549-3551	3.4	183
106	Optical properties of excitons in ZnO-based quantum well heterostructures. <i>Semiconductor Science and Technology</i> , 2005 , 20, S78-S91	1.8	168
105	Enhancement of exciton binding energies in ZnO/ZnMgO multiquantum wells. <i>Journal of Applied Physics</i> , 2002 , 91, 1993-1997	2.5	163
104	Gallium concentration dependence of room-temperature near-band-edge luminescence in n-type ZnO:Ga. <i>Applied Physics Letters</i> , 2004 , 85, 759-761	3.4	162
103	Radiative and nonradiative recombination processes in lattice-matched (Cd,Zn)O/(Mg,Zn)O multiquantum wells. <i>Applied Physics Letters</i> , 2000 , 77, 1632-1634	3.4	156
102	Anatase TiO_2 thin films grown on lattice-matched $LaAlO_3$ substrate by laser molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2001 , 78, 2664-2666	3.4	141
101	Transparent polymer Schottky contact for a high performance visible-blind ultraviolet photodiode based on ZnO. <i>Applied Physics Letters</i> , 2008 , 93, 123309	3.4	130
100	Stimulated emission induced by exciton-exciton scattering in ZnO/ZnMgO multiquantum wells up to room temperature. <i>Applied Physics Letters</i> , 2000 , 77, 4250-4252	3.4	121
99	Electron transport in ZnO thin films. <i>Applied Physics Letters</i> , 2005 , 87, 022101	3.4	107
98	Donor-acceptor pair luminescence in nitrogen-doped ZnO films grown on lattice-matched $ScAlMgO_4(0001)$ substrates. <i>Solid State Communications</i> , 2003 , 127, 265-269	1.6	91
97	Temperature dependence of near ultraviolet photoluminescence in ZnO/(Mg, Zn)O multiple quantum wells. <i>Applied Physics Letters</i> , 2001 , 78, 1979-1981	3.4	91
96	Radiative recombination of electron-hole pairs spatially separated due to quantum-confined Stark and Franz-Keldysh effects in ZnO/Mg _{0.27} Zn _{0.73} O quantum wells. <i>Applied Physics Letters</i> , 2002 , 81, 2355-2357	3.4	87

95	Temperature dependence of excitonic absorption spectra in ZnO/Zn _{0.88} Mg _{0.12} O multiquantum wells grown on lattice-matched substrates. <i>Applied Physics Letters</i> , 2001 , 78, 2464-2466	3-4	85
94	Strain effects on exciton resonance energies of ZnO epitaxial layers. <i>Applied Physics Letters</i> , 2001 , 79, 1282-1284	3-4	81
93	Internal electric field effect on luminescence properties of ZnO/(Mg,Zn)O quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 671-675	3	79
92	Confinement-enhanced biexciton binding energy in ZnO/ZnMgO multiple quantum wells. <i>Applied Physics Letters</i> , 2003 , 82, 1848-1850	3-4	73
91	Temperature quenching of exciton luminescence intensity in ZnO/(Mg,Zn)O multiple quantum wells. <i>Journal of Applied Physics</i> , 2003 , 93, 5929-5933	2-5	72
90	Layer-by-layer growth of high-optical-quality ZnO film on atomically smooth and lattice relaxed ZnO buffer layer. <i>Applied Physics Letters</i> , 2003 , 83, 2784-2786	3-4	66
89	Lateral grain size and electron mobility in ZnO epitaxial films grown on sapphire substrates. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 284-288	1.6	61
88	Epitaxial growth of ZnO films on lattice-matched ScAlMgO ₄ (0001) substrates. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 59-62	1.6	60
87	Biexciton emission from ZnO/Zn _{0.74} Mg _{0.26} O multiquantum wells. <i>Applied Physics Letters</i> , 2001 , 78, 3385-3387	3-4	59
86	Electronic structure of the delafossite-type CuMO ₂ (M = Sc, Cr, Mn, Fe, and Co): Optical absorption measurements and first-principles calculations. <i>Physical Review B</i> , 2011 , 84,	3-3	52
85	Optical properties of ZnO:Al epilayers: Observation of room-temperature many-body absorption-edge singularity. <i>Physical Review B</i> , 2002 , 65,	3-3	49
84	Localization of triplet excitons and biexcitons in the two-dimensional semiconductor (CH ₃ C ₆ H ₄ CH ₂ NH ₃) ₂ PbBr ₄ . <i>Physical Review B</i> , 2006 , 73,	3-3	40
83	Optical properties of rare earth ion (Nd ³⁺ , Er ³⁺ and Tb ³⁺)-doped alumina films prepared by the sol-gel method. <i>Optical Materials</i> , 2001 , 15, 293-299	3-3	38
82	Optical spectra in ZnO thin films on lattice-matched substrates grown with laser-MBE method. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 289-293	1.6	33
81	Well-width dependence of radiative and nonradiative recombination times in ZnO/Mg _{0.12} Zn _{0.88} O multiple quantum wells. <i>Journal of Applied Physics</i> , 2001 , 90, 3650-3652	2-5	33
80	Photoexcitation screening of the built-in electric field in ZnO single quantum wells. <i>Applied Physics Letters</i> , 2008 , 93, 121907	3-4	31
79	Spectral shape analysis of ultraviolet luminescence in n-type ZnO:Ga. <i>Journal of Applied Physics</i> , 2005 , 98, 093520	2-5	31
78	Effect of MgZnO-layer capping on optical properties of ZnO epitaxial layers. <i>Applied Physics Letters</i> , 2002 , 81, 2172-2174	3-4	31

77	Magneto-tunable photocurrent in manganite-based heterojunctions. <i>Nature Communications</i> , 2014 , 5, 4584	17.4	30
76	Emission from the higher-order excitons in ZnO films grown by laser molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2004 , 84, 3858-3860	3.4	30
75	Size dependence of exciton longitudinal-optical-phonon coupling in ZnO/Mg _{0.27} Zn _{0.73} O quantum wells. <i>Physical Review B</i> , 2002 , 66,	3.3	30
74	Optical Properties of ZnO:Al Epilayers and of Undoped Epilayers Capped by Wider-Gap MgZnO Grown by Laser MBE. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 853-857	1.3	29
73	Magnetic and electronic properties of ordered double-perovskite La ₂ VmO ₆ thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	26
72	Photoluminescence properties of ZnO epitaxial layers grown on lattice-matched ScAlMgO ₄ substrates. <i>Journal of Applied Physics</i> , 2002 , 92, 7157-7159	2.5	26
71	MgxZn _{1-x} O-Based Schottky Photodiode for Highly Color-Selective Ultraviolet Light Detection. <i>Applied Physics Express</i> , 2008 , 1, 121201	2.4	24
70	High-Temperature Epitaxy of Metastable Sulfides on Oxide Substrates Using Stoichiometric Transportation. <i>Advanced Materials</i> , 2001 , 13, 1624-1627	2.4	24
69	Optical and magnetic properties of CuMnO ₂ epitaxial thin films with a delafossite-derivative structure. <i>Applied Physics Letters</i> , 2009 , 95, 032109	3.4	22
68	Excitonic characteristics in direct wide-band-gap CuScO ₂ epitaxial thin films. <i>Applied Physics Letters</i> , 2009 , 95, 211908	3.4	19
67	Hole Transport in p-Type ZnO. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6346-6351	1.4	19
66	Photo-Irresponsible Thin-Film Transistor with MgxZn _{1-x} O Channel. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L694-L696	1.4	19
65	High-throughput optical characterization for the development of a ZnO-based ultraviolet semiconductor-laser. <i>Applied Surface Science</i> , 2002 , 189, 277-283	6.7	19
64	Ultrafast time-resolved Faraday rotation in EuO thin films. <i>Physical Review Letters</i> , 2012 , 108, 257401	7.4	18
63	Effect of boron and nitrogen doping with native point defects on the vibrational properties of graphene. <i>Computational Materials Science</i> , 2014 , 94, 35-43	3.2	16
62	Co-doped TiO ₂ films grown on glass: Room-temperature ferromagnetism accompanied with anomalous Hall effect and magneto-optical effect. <i>Applied Physics Letters</i> , 2009 , 94, 102515	3.4	15
61	Exciton Related Stimulated Emission in ZnO-Based Multiple-Quantum Wells. <i>Physica Status Solidi A</i> , 2002 , 192, 14-20		15
60	Precise calibration of Mg concentration in MgxZn _{1-x} O thin films grown on ZnO substrates. <i>Journal of Applied Physics</i> , 2012 , 112, 043515	2.5	14

59	Single quantum dot spectroscopy of CdSe/ZnSe grown on vicinal GaAs substrates. <i>Applied Physics Letters</i> , 2003 , 82, 2227-2229	3.4	14
58	Tunable electronic properties in bismuthene/2D silicon carbide van der Waals heterobilayer. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SCCC03	1.4	14
57	Ultrafast optical control of magnetization in EuO thin films. <i>Physical Review B</i> , 2012 , 86,	3.3	13
56	Magneto-photoluminescence of charged excitons from Mg _x Zn _{1-x} O/ZnO heterojunctions. <i>Physical Review B</i> , 2013 , 87,	3.3	11
55	Magneto-optical study of n-type modulation-doped ZnO/Mg _x Zn _{1-x} O single quantum well structures. <i>Physical Review B</i> , 2009 , 80,	3.3	10
54	Polarized microscopic laser Raman scattering spectroscopy for edge structure of epitaxial graphene and localized vibrational mode. <i>Carbon</i> , 2014 , 77, 1073-1081	10.4	9
53	Majority-carrier mobilities in undoped and n-type doped ZnO epitaxial layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 956-959		9
52	Free-Carrier Effects on Zero- and One-Phonon Absorption Onsets of n-Type ZnO. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7275-7280	1.4	8
51	Time-resolved luminescence of exciton polaritons in PbI ₂ . <i>Physical Review B</i> , 1998 , 57, 3714-3717	3.3	8
50	Excitation energy dependence of biexciton formation efficiency in PbI ₂ . <i>Solid State Communications</i> , 1995 , 93, 983-987	1.6	8
49	Well-Width Dependence of Radiative and Nonradiative Lifetimes in ZnO-Based Multiple Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 863-866	1.3	7
48	Optical properties of ZnO-based quantum structures. <i>Superlattices and Microstructures</i> , 2005 , 38, 231-244	4.8	7
47	EXCITON LOCALIZATION IN (Cd,Zn)O EPILAYERS AND (Cd,Zn)O/(Mg,Zn)O MULTI-QUANTUM WELLS ON LATTICE-MATCHED SUBSTRATES. <i>International Journal of Modern Physics B</i> , 2001 , 15, 3853-3856	1.1	7
46	Analysis of vibrational properties of C-doped hexagonal boron nitride (h-BN). <i>Computational Materials Science</i> , 2014 , 94, 225-233	3.2	6
45	Sr ₂ TMO ₃ (TM = Ni, Co) Compounds with 1D TMD Chains. <i>Advanced Materials</i> , 2006 , 18, 2541-2544	2.4	6
44	Shifting Donor-Acceptor Photoluminescence in N-doped ZnO. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 073701	1.5	6
43	Observation of Biexciton Emission in ZnO/ZnMgO Multi-Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 867-870	1.3	6
42	High-throughput optimizations of alloy and doped films based on ZnO and parallel synthesis of ZnO/Mg _x Zn _{1-x} O quantum wells using combinatorial laser MBE toward ultraviolet laser 2000 , 3941, 70		6

41	Vacancy and curvature effects on the phonon properties of single wall carbon nanotube. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CB08	1.4	5
40	High-Throughput Screening of Ultraviolet-Visible Magneto-optical Properties of Spinel Ferrite (Zn,Co)Fe ₂ O ₄ Solid Solution Epitaxial Film by a Composition-Spread Approach. <i>Applied Physics Express</i> , 2010 , 3, 103001	2.4	5
39	Direct Observation of a Lattice-Framework Silylene: A Planar Four-Membered-Ring Dialkylsilylene with a Small HOMO-LUMO Energy Gap. <i>Organometallics</i> , 2006 , 25, 1325-1328	3.8	5
38	Combinatorial synthesis and optical characterization of alloy and superlattice films based on SrTiO ₃ and LaAlO ₃ . <i>Applied Surface Science</i> , 2006 , 252, 2488-2492	6.7	5
37	Polarized micro Raman scattering spectroscopy for curved edges of epitaxial graphene. <i>Applied Physics Letters</i> , 2014 , 105, 243103	3.4	4
36	Exciton transfer between localized states in ZnO quantum well structures. <i>Superlattices and Microstructures</i> , 2007 , 42, 206-211	2.8	4
35	Synthesis and characterization of composition-spread (Sr,Ca) ₂ CuO ₃ thin films with high third-order optical nonlinearity. <i>Applied Physics Letters</i> , 2003 , 83, 842-844	3.4	4
34	Optical characterization for combinatorial systems based on semiconductor ZnO 2000 ,		4
33	Spectrally-Resolved Four-Wave Mixing Spectroscopy in the Exciton and Biexciton Resonant Region in PbI ₂ . <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 3298-3303	1.5	4
32	Effect of ¹⁰ B isotope and vacancy defects on the phonon modes of two-dimensional hexagonal boron nitride. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CB04	1.4	3
31	Ultrafast dynamics of excitons in delafossite CuScO ₂ thin films. <i>Applied Physics Letters</i> , 2010 , 96, 211904	3.4	3
30	High Crystallinity CuScO ₂ Delafossite Films Exhibiting Ultraviolet Photoluminescence Grown by Vapor-Liquid-Solid Tri-phase Epitaxy. <i>Applied Physics Express</i> , 2012 , 5, 011201	2.4	3
29	Analysis on reflection spectra in strained ZnO thin films. <i>Journal of Crystal Growth</i> , 2006 , 287, 124-127	1.6	3
28	Time domain investigation on excitonic spectral diffusion in CdSe quantum dots grown on vicinal surface GaAs substrates. <i>Solid State Communications</i> , 2004 , 130, 63-66	1.6	3
27	Effect of growth conditions on optical properties of CdSe/ZnSe single quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 97-98	3	3
26	Magnesium Concentration Dependence of Room-Temperature Absorption-Edge Singularity in Alloyed MgZnO Epilayers. <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 2855-2858	1.5	3
25	Optical Properties of ZnO:Al Epilayers and of Undoped Epilayers Capped by Wider-Gap MgZnO Grown by Laser MBE 2002 , 229, 853		3
24	Temperature-induced localized exciton dynamics in mixed lead-in based CH ₃ NH ₃ Pb _{1-x} SnxI ₃ perovskite materials. <i>AIP Advances</i> , 2020 , 10, 065331	1.5	2

23	Temperature induced anomalous exciton localization in InGaN/GaN and GaN/AlInN quantum wells. <i>Journal of Computational Electronics</i> , 2018 , 17, 373-381	1.8	2
22	Two-photon resonance spectra of biexcitons in PbI ₂ : Contribution of coherent and incoherent processes. <i>Journal of Luminescence</i> , 1998 , 76-77, 451-454	3.8	2
21	High-throughput characterization of linear and nonlinear optical properties in composition-spread (Sr,Ca) ₂ CuO ₃ thin-films. <i>Applied Surface Science</i> , 2004 , 223, 133-137	6.7	2
20	Temperature Dependence of Absorption Spectra in Anatase TiO ₂ Epilayers. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 2696-2697	1.5	2
19	Optically pumped stimulated emission in ZnO/ZnMgO multiple quantum wells prepared by combinatorial techniques 2001 ,		2
18	A new photoreflectance signal possibly due to midgap interface states in buried F-doped SnO ₂ /TiO ₂ junctions. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SCCB23	1.4	2
17	Bright photoemission from interacting excitons at the interface localized sites in CdS/ZnSe type-II quantum structures. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
16	Temperature dependence of dielectric functions in Yb ₂ O ₃ and Lu ₂ O ₃ epitaxial thin films on sapphire (0001). <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SCCB13	1.4	2
15	Analysis of Time-Resolved Donor-Acceptor Photoluminescence of N-Doped ZnO. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 095001	1.5	1
14	Temperature dependence of four-wave-mixing spectra in ZnO thin films on sapphire substrates grown with laser MBE. <i>Journal of Luminescence</i> , 2000 , 87-89, 210-212	3.8	1
13	Luminescence of Localized Biexcitons in Pb _{1-x} Cd _x I ₂ Mixed Crystals. <i>Journal of the Physical Society of Japan</i> , 1996 , 65, 3049-3055	1.5	1
12	Temperature dependent localization dynamics of excitons in Mg _{0.14} Zn _{0.86} O alloyed semiconductor. <i>Physica B: Condensed Matter</i> , 2019 , 558, 127-130	2.8	1
11	Direct detection of optically-induced microwave spin precession in Fe(III) halogenates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 317, 8-14	2.8	0
10	Temperature-dependent optical properties of InGa ₂ O ₃ thin films. <i>Japanese Journal of Applied Physics</i> , 2022 , 61, SB1031	1.4	0
9	Impulsive optical spin orientation by Zeeman state mixing in ruby. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 326, 186-196	2.8	
8	Room-Temperature Stimulated Emission from ZnO Multiple Quantum Wells Grown on Lattice-Matched Substrates 2011 , 331-349		
7	Non-degenerated photoluminescence excitation correlation spectroscopy using an optical sampling technique. <i>Review of Scientific Instruments</i> , 2012 , 83, 103108	1.7	
6	Nanosecond Response Found in Photoexcited Surface Carriers Generated by CoSix Nanoparticles on Si Substrate. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L1209-L1211	1.4	

- 5 Microphotoluminescence spectroscopy of CdSe quantum dots grown on vicinal-surface and exact-orientation substrates. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 791-794
- 4 Line width of the biexciton states in PbI₂ estimated from the analysis of reflection-type four-wave mixing spectra. *Solid State Communications*, **2001**, 119, 419-422 1.6
- 3 Contactless Determination of Electric Field in Metal/Insulator/Semiconductor Interfaces by Using Constant DC-Reflectivity Photoreflectance. *Solids*, **2021**, 2, 129-138 0
- 2 Contactless Determination of Optimal Chloride Concentration for Power Conversion Efficiency in CH₃NH₃Pb(Cl,I)₃ Using Photoluminescence Spectroscopy. *Photonics*, **2021**, 8, 412 2.2
- 1 Optical properties of LiNbO₂ thin films. *Physica B: Condensed Matter*, **2021**, 621, 413259 2.8