

# Takayuki Makino

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112  
papers

6,322  
citations

32  
h-index

79  
g-index

119  
ext. papers

6,611  
ext. citations

3.5  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
112	Temperature-dependent optical properties of E-Ga <sub>2</sub> O <sub>3</sub> thin films. <i>Japanese Journal of Applied Physics</i> , <b>2022</b> , 61, SB1031	1.4	0
111	Contactless Determination of Electric Field in Metal-Insulator-Semiconductor Interfaces by Using Constant DC-Reflectivity Photoreflectance. <i>Solids</i> , <b>2021</b> , 2, 129-138	0	
110	Contactless Determination of Optimal Chloride Concentration for Power Conversion Efficiency in CH <sub>3</sub> NH <sub>3</sub> Pb(Cl,I) <sub>3</sub> Using Photoluminescence Spectroscopy. <i>Photonics</i> , <b>2021</b> , 8, 412	2.2	
109	Optical properties of LiNbO <sub>2</sub> thin films. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 621, 413259	2.8	
108	Temperature-induced localized exciton dynamics in mixed lead-free based CH <sub>3</sub> NH <sub>3</sub> Pb <sub>1-x</sub> SnxI <sub>3</sub> perovskite materials. <i>AIP Advances</i> , <b>2020</b> , 10, 065331	1.5	2
107	A new photoreflectance signal possibly due to midgap interface states in buried F-doped SnO <sub>2</sub> /TiO <sub>2</sub> junctions. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SCCB23	1.4	2
106	Tunable electronic properties in bismuthene/2D silicon carbide van der Waals heterobilayer. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SCCC03	1.4	14
105	Temperature dependence of dielectric functions in Yb <sub>2</sub> O <sub>3</sub> and Lu <sub>2</sub> O <sub>3</sub> epitaxial thin films on sapphire (0001). <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SCCB13	1.4	2
104	Temperature dependent localization dynamics of excitons in Mg <sub>0.14</sub> Zn <sub>0.86</sub> O alloyed semiconductor. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 558, 127-130	2.8	1
103	Temperature induced anomalous exciton localization in InGaN/GaN and GaN/AlInN quantum wells. <i>Journal of Computational Electronics</i> , <b>2018</b> , 17, 373-381	1.8	2
102	Vacancy and curvature effects on the phonon properties of single wall carbon nanotube. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 02CB08	1.4	5
101	Effect of <sup>10</sup> B isotope and vacancy defects on the phonon modes of two-dimensional hexagonal boron nitride. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 02CB04	1.4	3
100	Polarized microscopic laser Raman scattering spectroscopy for edge structure of epitaxial graphene and localized vibrational mode. <i>Carbon</i> , <b>2014</b> , 77, 1073-1081	10.4	9
99	Magneto-tunable photocurrent in manganite-based heterojunctions. <i>Nature Communications</i> , <b>2014</b> , 5, 4584	17.4	30
98	Analysis of vibrational properties of C-doped hexagonal boron nitride (h-BN). <i>Computational Materials Science</i> , <b>2014</b> , 94, 225-233	3.2	6
97	Polarized micro Raman scattering spectroscopy for curved edges of epitaxial graphene. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 243103	3.4	4
96	Effect of boron and nitrogen doping with native point defects on the vibrational properties of graphene. <i>Computational Materials Science</i> , <b>2014</b> , 94, 35-43	3.2	16

95	Impulsive optical spin orientation by Zeeman state mixing in ruby. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 326, 186-196	2.8	
94	Magneto-photoluminescence of charged excitons from Mg <sub>x</sub> Zn <sub>1-x</sub> O/ZnO heterojunctions. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	11
93	Ultrafast optical control of magnetization in EuO thin films. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	13
92	Precise calibration of Mg concentration in Mg <sub>x</sub> Zn <sub>1-x</sub> O thin films grown on ZnO substrates. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 043515	2.5	14
91	Non-degenerated photoluminescence excitation correlation spectroscopy using an optical sampling technique. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 103108	1.7	
90	Ultrafast time-resolved faraday rotation in EuO thin films. <i>Physical Review Letters</i> , <b>2012</b> , 108, 257401	7.4	18
89	High Crystallinity CuScO <sub>2</sub> Delafossite Films Exhibiting Ultraviolet Photoluminescence Grown by Vapor-Liquid-Solid Tri-phase Epitaxy. <i>Applied Physics Express</i> , <b>2012</b> , 5, 011201	2.4	3
88	Electronic structure of the delafossite-type CuMO <sub>2</sub> (M = Sc, Cr, Mn, Fe, and Co): Optical absorption measurements and first-principles calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	52
87	Room-Temperature Stimulated Emission from ZnO Multiple Quantum Wells Grown on Lattice-Matched Substrates <b>2011</b> , 331-349		
86	Magnetic and electronic properties of ordered double-perovskite La <sub>2</sub> VmO <sub>6</sub> thin films. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	26
85	High-Throughput Screening of Ultraviolet-Visible Magneto-optical Properties of Spinel Ferrite (Zn,Co)Fe <sub>2</sub> O <sub>4</sub> Solid Solution Epitaxial Film by a Composition-Spread Approach. <i>Applied Physics Express</i> , <b>2010</b> , 3, 103001	2.4	5
84	Ultrafast dynamics of excitons in delafossite CuScO <sub>2</sub> thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 211904	3.4	3
83	Magneto-optical study of n-type modulation-doped ZnO/Mg <sub>x</sub> Zn <sub>1-x</sub> O single quantum well structures. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	10
82	Excitonic characteristics in direct wide-band-gap CuScO <sub>2</sub> epitaxial thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 211908	3.4	19
81	Optical and magnetic properties of CuMnO <sub>2</sub> epitaxial thin films with a delafossite-derivative structure. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 032109	3.4	22
80	Co-doped TiO <sub>2</sub> films grown on glass: Room-temperature ferromagnetism accompanied with anomalous Hall effect and magneto-optical effect. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 102515	3.4	15
79	Transparent polymer Schottky contact for a high performance visible-blind ultraviolet photodiode based on ZnO. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 123309	3.4	130
78	Mg <sub>x</sub> Zn <sub>1-x</sub> O-Based Schottky Photodiode for Highly Color-Selective Ultraviolet Light Detection. <i>Applied Physics Express</i> , <b>2008</b> , 1, 121201	2.4	24

77	Photoexcitation screening of the built-in electric field in ZnO single quantum wells. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 121907	3.4	31
76	Direct detection of optically-induced microwave spin precession in Fe(III) halogenates. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 317, 8-14	2.8	0
75	Exciton transfer between localized states in ZnO quantum well structures. <i>Superlattices and Microstructures</i> , <b>2007</b> , 42, 206-211	2.8	4
74	Nanosecond Response Found in Photoexcited Surface Carriers Generated by CoSixNanoparticles on Si Substrate. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, L1209-L1211	1.4	
73	Bright photoemission from interacting excitons at the interface localized sites in CdS/ZnSe type-II quantum structures. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	2
72	Sr2TMO3 (TM = Ni, Co) Compounds with 1D TMD Chains. <i>Advanced Materials</i> , <b>2006</b> , 18, 2541-2544	2.4	6
71	Hole Transport in p-Type ZnO. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 6346-6351	1.4	19
70	Photo-Irresponsible Thin-Film Transistor with Mg <sub>x</sub> Zn <sub>1-x</sub> O Channel. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, L694-L696	1.4	19
69	Localization of triplet excitons and biexcitons in the two-dimensional semiconductor (CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> CH <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>4</sub> . <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	40
68	Direct Observation of a Lattice-Framework Silylene: A Planar Four-Membered-Ring Dialkylsilylene with a Small HOMO-LUMO Energy Gap. <i>Organometallics</i> , <b>2006</b> , 25, 1325-1328	3.8	5
67	Shifting Donor-Acceptor Photoluminescence in N-doped ZnO. <i>Journal of the Physical Society of Japan</i> , <b>2006</b> , 75, 073701	1.5	6
66	Analysis of Time-Resolved Donor-Acceptor Photoluminescence of N-Doped ZnO. <i>Journal of the Physical Society of Japan</i> , <b>2006</b> , 75, 095001	1.5	1
65	Majority-carrier mobilities in undoped and n-type doped ZnO epitaxial layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 956-959		9
64	Combinatorial synthesis and optical characterization of alloy and superlattice films based on SrTiO <sub>3</sub> and LaAlO <sub>3</sub> . <i>Applied Surface Science</i> , <b>2006</b> , 252, 2488-2492	6.7	5
63	Analysis on reflection spectra in strained ZnO thin films. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 124-127	1.6	3
62	Electron transport in ZnO thin films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 022101	3.4	107
61	Spectral shape analysis of ultraviolet luminescence in n-type ZnO:Ga. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 093520	2.5	31
60	Optical properties of excitons in ZnO-based quantum well heterostructures. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, S78-S91	1.8	168

59	Optical properties of ZnO-based quantum structures. <i>Superlattices and Microstructures</i> , <b>2005</b> , 38, 231-244	4.8	7
58	Free-Carrier Effects on Zero- and One-Phonon Absorption Onsets of n-Type ZnO. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 7275-7280	1.4	8
57	Repeated temperature modulation epitaxy for p-type doping and light-emitting diode based on ZnO. <i>Nature Materials</i> , <b>2004</b> , 4, 42-46	27	1830
56	Time domain investigation on excitonic spectral diffusion in CdSe quantum dots grown on vicinal surface GaAs substrates. <i>Solid State Communications</i> , <b>2004</b> , 130, 63-66	1.6	3
55	High-throughput characterization of linear and nonlinear optical properties in composition-spread (Sr,Ca) <sub>2</sub> CuO <sub>3</sub> thin-films. <i>Applied Surface Science</i> , <b>2004</b> , 223, 133-137	6.7	2
54	Microphotoluminescence spectroscopy of CdSe quantum dots grown on vicinal-surface and exact-orientation substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 791-794		
53	Internal electric field effect on luminescence properties of ZnO/(Mg,Zn)O quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 671-675	3	79
52	Gallium concentration dependence of room-temperature near-band-edge luminescence in n-type ZnO:Ga. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 759-761	3.4	162
51	Emission from the higher-order excitons in ZnO films grown by laser molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3858-3860	3.4	30
50	Donor-acceptor pair luminescence in nitrogen-doped ZnO films grown on lattice-matched ScAlMgO <sub>4</sub> (0001) substrates. <i>Solid State Communications</i> , <b>2003</b> , 127, 265-269	1.6	91
49	Effect of growth conditions on optical properties of CdSe/ZnSe single quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 97-98	3	3
48	Temperature quenching of exciton luminescence intensity in ZnO/(Mg,Zn)O multiple quantum wells. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5929-5933	2.5	72
47	Temperature Dependence of Absorption Spectra in Anatase TiO <sub>2</sub> Epilayers. <i>Journal of the Physical Society of Japan</i> , <b>2003</b> , 72, 2696-2697	1.5	2
46	Single quantum dot spectroscopy of CdSe/ZnSe grown on vicinal GaAs substrates. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2227-2229	3.4	14
45	Confinement-enhanced biexciton binding energy in ZnO/ZnMgO multiple quantum wells. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1848-1850	3.4	73
44	Layer-by-layer growth of high-optical-quality ZnO film on atomically smooth and lattice relaxed ZnO buffer layer. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2784-2786	3.4	66
43	Synthesis and characterization of composition-spread (Sr,Ca) <sub>2</sub> CuO <sub>3</sub> thin films with high third-order optical nonlinearity. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 842-844	3.4	4
42	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> , <b>2002</b> , 229, 853-857	1.3	29

41	Well-Width Dependence of Radiative and Nonradiative Lifetimes in ZnO-Based Multiple Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 863-866	1.3	7
40	Observation of Biexciton Emission in ZnO/ZnMgO Multi-Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 867-870	1.3	6
39	Exciton Related Stimulated Emission in ZnO-Based Multiple-Quantum Wells. <i>Physica Status Solidi A</i> , <b>2002</b> , 192, 14-20		15
38	High-throughput optical characterization for the development of a ZnO-based ultraviolet semiconductor-laser. <i>Applied Surface Science</i> , <b>2002</b> , 189, 277-283	6.7	19
37	Photoluminescence properties of ZnO epitaxial layers grown on lattice-matched ScAlMgO4 substrates. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 7157-7159	2.5	26
36	Size dependence of exciton longitudinal-optical-phonon coupling in ZnO/Mg <sub>0.27</sub> Zn <sub>0.73</sub> O quantum wells. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	30
35	Magnesium Concentration Dependence of Room-Temperature Absorption-Edge Singularity in Alloyed MgZnO Epilayers. <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 2855-2858	1.5	3
34	Radiative recombination of electron-hole pairs spatially separated due to quantum-confined Stark and Franz-Keldysh effects in ZnO/Mg <sub>0.27</sub> Zn <sub>0.73</sub> O quantum wells. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2355-2357	3.4	87
33	Enhancement of exciton binding energies in ZnO/ZnMgO multiquantum wells. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 1993-1997	2.5	163
32	Effect of MgZnO-layer capping on optical properties of ZnO epitaxial layers. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2172-2174	3.4	31
31	Optical properties of ZnO:Al epilayers: Observation of room-temperature many-body absorption-edge singularity. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	49
30	Optical Properties of ZnO:Al Epilayers and of Undoped Epilayers Capped by Wider-Gap MgZnO Grown by Laser MBE <b>2002</b> , 229, 853		3
29	Optically pumped stimulated emission in ZnO/ZnMgO multiple quantum wells prepared by combinatorial techniques <b>2001</b> ,		2
28	Line width of the biexciton states in PbI <sub>2</sub> estimated from the analysis of reflection-type four-wave mixing spectra. <i>Solid State Communications</i> , <b>2001</b> , 119, 419-422	1.6	
27	Optical properties of rare earth ion (Nd <sup>3+</sup> , Er <sup>3+</sup> and Tb <sup>3+</sup> )-doped alumina films prepared by the sol-gel method. <i>Optical Materials</i> , <b>2001</b> , 15, 293-299	3.3	38
26	High-Temperature Epitaxy of Metastable Sulfides on Oxide Substrates Using Stoichiometric Transportation. <i>Advanced Materials</i> , <b>2001</b> , 13, 1624-1627	2.4	24
25	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> , <b>2001</b> , 15, 3853-3856	1.1	7
24	Temperature dependence of near ultraviolet photoluminescence in ZnO/(Mg, Zn)O multiple quantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1979-1981	3.4	91

23	Band gap engineering based on $Mg_xZn_{1-x}O$ and $Cd_yZn_{1-y}O$ ternary alloy films. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1237-1239	3.4	589
22	Anatase $TiO_2$ thin films grown on lattice-matched $LaAlO_3$ substrate by laser molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 2664-2666	3.4	141
21	Biexciton emission from $ZnO/Zn_{0.74}Mg_{0.26}O$ multiquantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3385-3387	3.4	59
20	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> , <b>2001</b> , 90, 3650-3652	2.5	33
19	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> , <b>2001</b> , 78, 2464-2466	3.4	85
18	Strain effects on exciton resonance energies of $ZnO$ epitaxial layers. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1282-1284	3.4	81
17	High-throughput optimizations of alloy and doped films based on $ZnO$ and parallel synthesis of $ZnO/Mg_xZn_{1-x}O$ quantum wells using combinatorial laser MBE toward ultraviolet laser <b>2000</b> , 3941, 70		6
16	Optical characterization for combinatorial systems based on semiconductor $ZnO$ <b>2000</b> ,		4
15	Epitaxial growth of $ZnO$ films on lattice-matched $ScAlMgO_4(0001)$ substrates. <i>Journal of Crystal Growth</i> , <b>2000</b> , 214-215, 59-62	1.6	60
14	Lateral grain size and electron mobility in $ZnO$ epitaxial films grown on sapphire substrates. <i>Journal of Crystal Growth</i> , <b>2000</b> , 214-215, 284-288	1.6	61
13	Optical spectra in $ZnO$ thin films on lattice-matched substrates grown with laser-MBE method. <i>Journal of Crystal Growth</i> , <b>2000</b> , 214-215, 289-293	1.6	33
12	Temperature dependence of four-wave-mixing spectra in $ZnO$ thin films on sapphire substrates grown with laser MBE. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 210-212	3.8	1
11	Stimulated emission induced by exciton-exciton scattering in $ZnO/ZnMgO$ multiquantum wells up to room temperature. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 4250-4252	3.4	121
10	Exciton spectra of $ZnO$ epitaxial layers on lattice-matched substrates grown with laser-molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3549-3551	3.4	183
9	Radiative and nonradiative recombination processes in lattice-matched $(Cd,Zn)O/(Mg,Zn)O$ multiquantum wells. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1632-1634	3.4	156
8	Room-temperature luminescence of excitons in $ZnO/(Mg, Zn)O$ multiple quantum wells on lattice-matched substrates. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 975	3.4	201
7	Room-temperature stimulated emission of excitons in $ZnO/(Mg, Zn)O$ superlattices. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2204-2206	3.4	224
6	Single crystalline $ZnO$ films grown on lattice-matched $ScAlMgO_4(0001)$ substrates. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2635-2637	3.4	230

5	Two-photon resonance spectra of biexcitons in PbI <sub>2</sub> : Contribution of coherent and incoherent processes. <i>Journal of Luminescence</i> , <b>1998</b> , 76-77, 451-454	3.8	2
4	Time-resolved luminescence of exciton polaritons in PbI <sub>2</sub> . <i>Physical Review B</i> , <b>1998</b> , 57, 3714-3717	3.3	8
3	Spectrally-Resolved Four-Wave Mixing Spectroscopy in the Exciton and Biexciton Resonant Region in PbI <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , <b>1998</b> , 67, 3298-3303	1.5	4
2	Luminescence of Localized Biexcitons in Pb <sub>1-x</sub> Cd <sub>x</sub> I <sub>2</sub> Mixed Crystals. <i>Journal of the Physical Society of Japan</i> , <b>1996</b> , 65, 3049-3055	1.5	1
1	Excitation energy dependence of biexciton formation efficiency in PbI <sub>2</sub> . <i>Solid State Communications</i> , <b>1995</b> , 93, 983-987	1.6	8