

# Masaaki Ashida

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

75 papers	781 citations	15 h-index	26 g-index
114 ext. papers	959 ext. citations	4.3 avg, IF	3.92 L-index

#	Paper	IF	Citations
75	Optical trapping of nanoparticles in superfluid helium. <i>Optica</i> , <b>2022</b> , 9, 139	8.6	2
74	Visualization of quantized vortex reconnection enabled by laser ablation.. <i>Science Advances</i> , <b>2022</b> , 8, eabn1143	14.3	1
73	Enhanced Red Emission of Eu,O-Codoped GaN Embedded in a Photonic Crystal Nanocavity with Hexagonal Air Holes. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	3
72	Enhanced Magneto-Optical Kerr Effect of GaAs-Based P-N Junctions in the Terahertz Range. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2021</b> , 42, 325-337	2.2	0
71	Assessing the atomic structure of the defect complex in a solid electrolyte by photoluminescence measurements. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 032004	1.4	1
70	Carrier dynamics and excitation of Eu <sup>3+</sup> ions in GaN. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
69	Excitation Efficiency and Limitations of the Luminescence of Eu <sup>3+</sup> Ions in GaN. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	13
68	Temperature dependences of photoluminescence intensities observed from AgInGaS and AgInGaS/GaSx core-shell nanoparticles. <i>Journal of Nanophotonics</i> , <b>2020</b> , 14, 1	1.1	
67	Synthesis of submicron-sized CdS particles using reverse micelles. <i>Journal of Nanophotonics</i> , <b>2020</b> , 14, 1	1.1	1
66	Time-Domain Magnetic Field-Difference Spectroscopy for Semiconductors Using Circularly Polarized Terahertz Pulses. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2020</b> , 10, 51-57	3.4	4
65	Direct Visualization and Determination of the Multiple Exciton Generation Rate. <i>ACS Omega</i> , <b>2020</b> , 5, 21506-21512	3.9	2
64	Microscopic ion migration in solid electrolytes revealed by terahertz-time-domain spectroscopy. <i>Nature Communications</i> , <b>2019</b> , 10, 2662	17.4	16
63	Ultrafast thermal-free photoluminescence of coherently extended single quantum states. <i>Scientific Reports</i> , <b>2019</b> , 9, 8453	4.9	
62	Synergetic Enhancement of Light-Matter Interaction by Nonlocality and Band Degeneracy in ZnO Thin Films. <i>Physical Review Letters</i> , <b>2019</b> , 122, 157401	7.4	3
61	Special Section Guest Editorial: Optical Manipulation and Structured Materials. <i>Journal of Nanophotonics</i> , <b>2019</b> , 13, 1	1.1	
60	Quantitative study of energy-transfer mechanism in Eu,O-codoped GaN by time-resolved photoluminescence spectroscopy. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161419	2.5	4
59	Single-particle photoluminescence from cadmium selenide quantum dots fabricated via laser ablation in superfluid helium. <i>Journal of Nanophotonics</i> , <b>2018</b> , 13, 1	1.1	3

58	Longitudinal Optical Phonons Modified by Organic Molecular Cation Motions in Organic-Inorganic Hybrid Perovskites. <i>Physical Review Letters</i> , <b>2018</b> , 121, 145506	7.4	38
57	Efficient carrier multiplication in CsPbI perovskite nanocrystals. <i>Nature Communications</i> , <b>2018</b> , 9, 4199	17.4	67
56	Quantitative monitoring of the internal field in the depletion layer of a GaAs-based solar cell with terahertz radiation. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 163501	3.4	2
55	Numerical study of terahertz quantum cascade lasers subjected to near-infrared optical pulse injection. <i>Journal of Computational Electronics</i> , <b>2017</b> , 16, 382-391	1.8	0
54	Sensitive monitoring of photocarrier densities in the active layer of a photovoltaic device with time-resolved terahertz reflection spectroscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 071108	3.4	8
53	Excitation frequency dependence of the desorption of hydrogen-bonded solids using picosecond THz free electron laser pulses <b>2017</b> ,		1
52	Inner structure of ZnO microspheres fabricated via laser ablation in superfluid helium. <i>Optics Express</i> , <b>2017</b> , 25, 10449-10455	3.3	10
51	Self-polarized terahertz magnon absorption in a single crystal of BiFeO <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
50	Theory of Superfluorescence in Highly Inhomogeneous Quantum Systems. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 034703	1.5	10
49	Correlative near-infrared light and cathodoluminescence microscopy using Y <sub>2</sub> O <sub>3</sub> :Ln, Yb (Ln = Tm, Er) nanophosphors for multiscale, multicolour bioimaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 25950	4.9	34
48	Electrical transport properties of (La,Pr,Ca)MnO <sub>3</sub> nanowires investigated using terahertz time domain spectroscopy. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 125102	2.5	4
47	Effects of c/a Anisotropy and Local Crystal Structure on Superconductivity in AFe <sub>2</sub> (As <sub>1-x</sub> P <sub>x</sub> ) <sub>2</sub> (A = Ba <sub>1-x</sub> Sr <sub>x</sub> , Sr <sub>1-x</sub> Ca <sub>x</sub> and Eu). <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 063705	1.5	4
46	Impact of alkali doping on carrier transport in Cu <sub>2</sub> ZnSn(S, Se) <sub>4</sub> thin films for solar cell applications <b>2016</b> ,		1
45	Evaluation of complex conductivity in a circularly polarized field by terahertz time-domain reflection spectroscopy with a phase shifter. <i>Applied Physics Express</i> , <b>2016</b> , 9, 022402	2.4	3
44	Fabrication and Lasing Properties of Single-Crystalline Semiconductor Microspheres with Anisotropic Crystal Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1736, 70		
43	C6-P-04Tri-modal imaging techniques Cathodoluminescence (CL) - Near Infrared (NIR) and Magnetic resonance imaging (MRI) with lanthanides doped Gd <sub>2</sub> O <sub>3</sub> . <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i142.1-i142		142
42	Free-carrier dynamics and band tails in Cu <sub>2</sub> ZnSn(SxSe <sub>1-x</sub> ) <sub>4</sub> : Evaluation of factors determining solar cell efficiency. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	17
41	C6-P-01 Rare-earth doped Y <sub>2</sub> O <sub>3</sub> nano-phosphor probes for correlative cathodoluminescence and near-infrared optical bio-imaging. <i>Microscopy (Oxford, England)</i> , <b>2015</b> , 64, i140.2-i140	1.3	

40	Photocarrier dynamics in undoped and Na-doped Cu <sub>2</sub> ZnSnS <sub>4</sub> single crystals revealed by ultrafast time-resolved terahertz spectroscopy. <i>Applied Physics Express</i> , <b>2015</b> , 8, 062303	2.4	11
39	Identification of Giant Mott Phase Transition of Single Electric Nanodomain in Manganite Nanowall Wire. <i>Nano Letters</i> , <b>2015</b> , 15, 4322-8	11.5	17
38	Fabrication of single-crystalline microspheres with high sphericity from anisotropic materials. <i>Scientific Reports</i> , <b>2014</b> , 4, 5186	4.9	29
37	Correlative cathodoluminescence and near-infrared fluorescence imaging for bridging from nanometer to millimeter scale bioimaging. <i>Microscopy (Oxford, England)</i> , <b>2014</b> , 63 Suppl 1, i29	1.3	1
36	Intermolecular THz Vibrations Relevant to Optically and Thermally Induced Magnetic Phase Transitions in the Strongly Correlated Organic Radical TTTA. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 014713	1.5	3
35	Y <sub>2</sub> O <sub>3</sub> :Tm,Yb nanophosphors for correlative upconversion luminescence and cathodoluminescence imaging. <i>Micron</i> , <b>2014</b> , 67, 90-95	2.3	24
34	Capture of a terahertz wave in a photonic-crystal slab. <i>Nature Photonics</i> , <b>2014</b> , 8, 657-663	33.9	104
33	Generation and Detection of THz Pulses With a Bandwidth Extending Beyond 4 THz Using a Subpicosecond Yb-Doped Fiber Laser System. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2014</b> , 4, 440-446	3.4	13
32	Ultrafast free-carrier dynamics in Cu <sub>2</sub> ZnSnS <sub>4</sub> single crystals studied using femtosecond time-resolved optical spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231902	3.4	21
31	Intrinsic carrier multiplication efficiency in bulk Si crystals evaluated by optical-pump/terahertz-probe spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231118	3.4	5
30	Ablation of organic crystals using picosecond THz free electron laser pulses <b>2014</b> ,		2
29	Estimation of dc transport dynamics in strongly correlated (La,Pr,Ca)MnO <sub>3</sub> film using an insulator-metal composite model for terahertz conductivity. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 023502	3.4	6
28	Optical Fabrication of Semiconductor Single-Crystalline Microspheres in Superfluid Helium. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1635, 103-108		2
27	Optical Transportation of Semiconductor Nanoparticles. <i>The Review of Laser Engineering</i> , <b>2014</b> , 42, 771		0
26	Photoluminescence dynamics in CuCl thin films under high-dense one- and two-photon excitations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 2493-2496		
25	Ultrabroadband coherent electric field from far infrared to 200 THz using air plasma induced by 10 fs pulses. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 011105	3.4	71
24	Multiple light-coupling modes of confined excitons observable in photoluminescence spectra of high-quality CuCl thin films. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	7
23	Electric field detection of coherent synchrotron radiation in a storage ring generated using laser bunch slicing. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 111112	3.4	2

22	High-efficiency terahertz pulse generation via optical rectification by suppressing stimulated Raman scattering process <b>2012</b> ,		1
21	Magnetic-field induced broadband THz absorption change in a multiferroic hexaferrite at room temperature <b>2011</b> ,		2
20	Room temperature degenerate four-wave mixing in CuCl thin films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 456-459	1-3	7
19	Biexcitonic superfluorescence from CuCl quantum dots under resonant two-photon excitation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 209-212		5
18	Ultrabroadband terahertz generation using 4-N,N-dimethylamino-4'-N-methyl-stilbazolium tosylate single crystals. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 021105	3-4	3 <sup>2</sup>
17	Ultrabroadband electric field generation and detection from far infrared to optical communication frequency <b>2010</b> ,		1
16	Observation of superradiance by nonlocal wave coupling of light and excitons in CuCl thin films. <i>Physical Review Letters</i> , <b>2009</b> , 103, 257401	7-4	28
15	Superfluorescent Pulsed Emission from Biexcitons in an Ensemble of CuCl Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1208, 1		
14	Optical fabrication of wide-gap semiconductor nanoparticles in superfluid helium. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 217-220		2
13	Polarization memory effect on nonlinear photoluminescence of semimagnetic semiconductor Cd <sub>0.8</sub> Mn <sub>0.2</sub> Te. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 34-37		1
12	Infrared transient absorption spectra for excited transition of excitons and biexcitons in CuCl. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, 296-299		1
11	Ultrabroadband THz wave detection using photoconductive antenna <b>2008</b> ,		1
10	Ultrabroadband THz field detection beyond 170THz with a photoconductive antenna <b>2008</b> ,		2
9	Hardening of the ferroelectric soft mode in SrTiO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 132903	3-4	27
8	Observation of Soft-Mode Hardening and Broadening in SrTiO <sub>3</sub> Thin Films by Broadband Terahertz Time-Domain Spectroscopy <b>2007</b> ,		1
7	Free exciton luminescence of ZnO:Zn microcrystals under electron beam excitation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1189-1192		2
6	Cathodoluminescence properties of GaAs/AlGaAs pyramidal cap structures with high spatial resolution. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3553-3556		1
5	Ultrabroadband THz spectroscopy using rapid scanning method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3484-3487		7

4	Ultrafast degenerate four-wave mixing in CuCl ultrathin films. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3800-3805	1.3	10
3	Optical manipulation of CuCl nanoparticles under an excitonic resonance condition in superfluid helium. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3829-3833	1.3	51
2	High-density selective excitation effect on excitons in semimagnetic semiconductor CdMnTe. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3806-3811	1.3	5
1	Ultrafast emission under two-photon excitation of biexcitons in CuCl quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3795-3799	1.3	8