

# Makoto Kuwahara

## List of Publications by Year in descending order

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57  
papers

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citations

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h-index

552781

26  
g-index

58  
all docs

58  
docs citations

58  
times ranked

639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of sub-100Åfs electron pulses for time-resolved electron diffraction using a direct synchronization method. Review of Scientific Instruments, 2022, 93, .	1.3	7
2	Intensity Interference in a Coherent Spin-Polarized Electron Beam. Physical Review Letters, 2021, 126, 125501.	7.8	19
3	Observation of domain wall bimerons in chiral magnets. Nature Communications, 2021, 12, 3490.	12.8	33
4	Photoinduced oxygen transport in cobalt double-perovskite crystal EuBaCo2O5.39. Applied Materials Today, 2021, 24, 101167.	4.3	3
5	Brightness evaluation of pulsed electron gun using negative electron affinity photocathode developed for time-resolved measurement using scanning electron microscope. Ultramicroscopy, 2021, 230, 113386.	1.9	6
6	Performance of a silicon-on-insulator direct electron detector in a low-voltage transmission electron microscope. Microscopy (Oxford, England), 2021, 70, 321-325.	1.5	4
7	Kuwahara et Al. Reply:. Physical Review Letters, 2021, 127, 229602.	7.8	0
8	Room-temperature magnetic skyrmion in epitaxial thin films of Fe <sub>2</sub> xPdxMo3N with the filled <b><i>I <sup>2</sup> </i></b>-Mn-type chiral structure. Applied Physics Letters, 2020, 117, .	3.3	7
9	Resolution improvement of low-voltage scanning electron microscope by bright and monochromatic electron gun using negative electron affinity photocathode. Journal of Applied Physics, 2020, 127, .	2.5	18
10	Localized Surface Plasmon Resonance-Induced Welding of Gold Nanotriangles and the Local Plasmonic Properties for Multicolor Sensing and Light-Harvesting Applications. ACS Applied Nano Materials, 2020, 3, 5172-5177.	5.0	16
11	Smectic Liquid-Crystalline Structure of Skyrmions in Chiral Magnet Co <sub>8.5</sub> Zn <sub>7.5</sub> Mn <sub>4</sub> (110) Thin Film. Physical Review Letters, 2019, 123, 137203.	7.8	24
12	Development of Spin-polarized Pulse-TEM. Materia Japan, 2019, 58, 269-274.	0.1	1
13	Coherent pulse beam in spin-polarized TEM using an NEA photocathode. , 2018, , .		0
14	Development of angle-resolved spectroscopy system of electrons emitted from a surface with negative electron affinity state. Review of Scientific Instruments, 2018, 89, 073103.	1.3	10
15	Temperature dependence of carrier relaxation time in gallium phosphide evaluated by photoemission measurements. AIP Advances, 2017, 7, 115314.	1.3	5
16	The Boersch effect in a picosecond pulsed electron beam emitted from a semiconductor photocathode. Applied Physics Letters, 2016, 109, .	3.3	32
17	Measurement of energy distribution of conduction electrons in superlattice by visible-light photoemission spectroscopy. , 2015, , .		0
18	B11-O-14Coherences of spin-polarized and pulsed electron beam extracted from a semiconductor photocathode in TEM. Microscopy (Oxford, England), 2015, 64, i17.1-i17.	1.5	0

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19	Photoemission lifetime of a negative electron affinity gallium nitride photocathode. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	1.2	24
20	Coherence of a spin-polarized electron beam emitted from a semiconductor photocathode in a transmission electron microscope. Applied Physics Letters, 2014, 105, .	3.3	38
21	Direct measurement of conduction miniband structure in superlattice by visible-light photoemission spectroscopy. , 2014, , .		1
22	Experimental investigation of an optimum configuration for a high-voltage photoemission gun for operation at $\lambda = 500$ nm. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	24
23	Electron spectroscopy of conduction electrons excited by visible light utilizing NEA surface. , 2013, , .		2
24	Temporal Response Measurements of GaAs-Based Photocathodes. Japanese Journal of Applied Physics, 2013, 52, 086401.	1.5	25
25	Phase-locking of oscillating images using laser-induced spin-polarized pulse TEM. Microscopy (Oxford), Tj ETQq1 1 0.784314 ggBT / Over	1.5	1
26	Ultra-high-resolution direct observation of mini-bands formed in InGaAs/AlGaAs superlattice. , 2013, , .		1
27	Generation of a 500-keV electron beam from a high voltage photoemission gun. Applied Physics Letters, 2013, 102, .	3.3	20
28	30-kV spin-polarized transmission electron microscope with GaAs/GaAsP strained superlattice photocathode. Applied Physics Letters, 2012, 101, .	3.3	52
29	Development of Spin-Polarized Pulsed TEM. Journal of Physics: Conference Series, 2012, 371, 012004.	0.4	4
30	Mean Transverse Energy Measurement of Negative Electron Affinity GaAs-Based Photocathode. Japanese Journal of Applied Physics, 2012, 51, 046402.	1.5	6
31	Development of spin-polarized transmission electron microscope. Journal of Physics: Conference Series, 2011, 298, 012016.	0.4	12
32	Development of a 500-kV Photocathode DC Gun for ERLS. Journal of Physics: Conference Series, 2011, 298, 012005.	0.4	9
33	Dark-lifetime degradation of GaAs photo-cathode at higher temperature. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S87-S90.	1.6	24
34	Spin coherent read, write, manipulation of electrons with light in solids. , 2011, , .		0
35	Coherent spin preparation, manipulation and read-out with light and microwaves in a quantum well and dot. Journal of Physics: Conference Series, 2010, 245, 012001.	0.4	1
36	Single charge detection of an electron created by a photon in a g-factor engineered quantum dot. Applied Physics Letters, 2010, 96, .	3.3	27

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37	Single-electron spin resonance in a g-factor-controlled semiconductor quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 821-824.	2.7	3
38	Real Time Magnetic Imaging by Spin-Polarized Low Energy Electron Microscopy with Highly Spin-Polarized and High Brightness Electron Gun. Applied Physics Express, 2010, 3, 026601.	2.4	41
39	High-voltage testing of a 500-kV dc photocathode electron gun. Review of Scientific Instruments, 2010, 81, 033304.	1.3	25
40	Strain of GaAs/GaAsP Superlattices Used as Spin-Polarized Electron Photocathodes, Determined by X-Ray Diffraction. E-Journal of Surface Science and Nanotechnology, 2010, 8, 125-130.	0.4	1
41	Spectral Evolution of GRB060904A Observed with Swift and Suzaku- Possibility of Inefficient Electron Acceleration. Publication of the Astronomical Society of Japan, 2008, 60, S351-S360.	2.5	11
42	High brightness and high polarization electron source using transmission photocathode with GaAs-GaAsP superlattice layers. Journal of Applied Physics, 2008, 103, .	2.5	49
43	Thermal emittance measurements for electron beams produced from bulk and superlattice negative electron affinity photocathodes. Journal of Applied Physics, 2007, 102, 024904.	2.5	33
44	Laser Focusing System for High Brightness Polarized Electron Source for SPLEEM. AIP Conference Proceedings, 2007, , .	0.4	0
45	Development of the New Type Polarized Electron Source for SPLEEM. AIP Conference Proceedings, 2007, , .	0.4	1
46	Initial Emittance Measurements for Polarized Electron Gun with NEA-GaAs Type Photocathode. AIP Conference Proceedings, 2007, , .	0.4	3
47	Production of High Density Polarized Electron Beam from GaAs-GaAsP Superlattice Photocathode. AIP Conference Proceedings, 2007, , .	0.4	2
48	HIGH FIELD GRADIENT POLARIZED ELECTRON GUN FOR ILC. , 2007, , .		1
49	Field Emission of Spin-Polarized Electrons Extracted from Photoexcited GaAs Tip. Japanese Journal of Applied Physics, 2006, 45, 6245-6249.	1.5	11
50	Reduction of field emission dark current for high-field gradient electron gun by using a molybdenum cathode and titanium anode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 33-44.	1.6	38
51	Highly polarized electrons from GaAs/GaAsP and InGaAs/AlGaAs strained-layer superlattice photocathodes. Journal of Applied Physics, 2005, 97, 094907.	2.5	70
52	PRESENT STATUS OF 200 KEV POLARIZED ELECTRON GUN AT NAGOYA UNIVERSITY. , 2005, , .		0
53	PROPERTIES OF FIELD EMISSION DARK CURRENT FROM MOLYBDENUM AND TITANIUM ELECTRODES. , 2005, , .		0
54	200 keV Polarized Electron Source at Nagoya University. AIP Conference Proceedings, 2003, , .	0.4	2

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55	Basic R&D Studies for Lower Emittance Polarized Electron Guns. AIP Conference Proceedings, 2003, , .	0.4	0
56	CHARGE LIMITATION EFFECTS IN PHOTOEMISSION FROM GaAsP STRAINED LAYER CATHODE. , 2002, , .		0
57	Test of cesium telluride photocathode as a feasibility study on polarized RF-gun. AIP Conference Proceedings, 2001, , .	0.4	0