

Makoto Kuwahara

List of Publications by Year in descending order

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docs citations

58
times ranked

639
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly polarized electrons from GaAs/GaAsP and InGaAs/AlGaAs strained-layer superlattice photocathodes. Journal of Applied Physics, 2005, 97, 094907.	2.5	70
2	30-kV spin-polarized transmission electron microscope with GaAs/GaAsP strained superlattice photocathode. Applied Physics Letters, 2012, 101, .	3.3	52
3	High brightness and high polarization electron source using transmission photocathode with GaAs-GaAsP superlattice layers. Journal of Applied Physics, 2008, 103, .	2.5	49
4	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
5	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
6	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
7	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
8	Observation of domain wall bimerons in chiral magnets. Nature Communications, 2021, 12, 3490.	12.8	33
9	The Boersch effect in a picosecond pulsed electron beam emitted from a semiconductor photocathode. Applied Physics Letters, 2016, 109, .	3.3	32
10	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
11	High-voltage testing of a 500-kV dc photocathode electron gun. Review of Scientific Instruments, 2010, 81, 033304.	1.3	25
12	Temporal Response Measurements of GaAs-Based Photocathodes. Japanese Journal of Applied Physics, 2013, 52, 086401.	1.5	25
13	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
14	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
15	Experimental investigation of an optimum configuration for a high-voltage photoemission gun for operation at ~ 500 keV. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	24
16	Smectic Liquid-Crystalline Structure of Skyrmions in Chiral Magnet $\text{Co}_{0.5}\text{Zn}_{0.5}\text{Mn}_4(110)$ Thin Film. Physical Review Letters, 2019, 123, 137203.	7.8	24
17	Generation of a 500-keV electron beam from a high voltage photoemission gun. Applied Physics Letters, 2013, 102, .	3.3	20
18	Intensity Interference in a Coherent Spin-Polarized Electron Beam. Physical Review Letters, 2021, 126, 125501.	7.8	19

#	ARTICLE	IF	CITATIONS
19	Resolution improvement of low-voltage scanning electron microscope by bright and monochromatic electron gun using negative electron affinity photocathode. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	18
20	Localized Surface Plasmon Resonance-Induced Welding of Gold Nanotriangles and the Local Plasmonic Properties for Multicolor Sensing and Light-Harvesting Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 5172-5177.	5.0	16
21	Development of spin-polarized transmission electron microscope. <i>Journal of Physics: Conference Series</i> , 2011, 298, 012016.	0.4	12
22	Field Emission of Spin-Polarized Electrons Extracted from Photoexcited GaAs Tip. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 6245-6249.	1.5	11
23	Spectral Evolution of GRB060904A Observed with Swift and Suzaku- Possibility of Inefficient Electron Acceleration. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S351-S360.	2.5	11
24	Development of angle-resolved spectroscopy system of electrons emitted from a surface with negative electron affinity state. <i>Review of Scientific Instruments</i> , 2018, 89, 073103.	1.3	10
25	Development of a 500-kV Photocathode DC Gun for ERLS. <i>Journal of Physics: Conference Series</i> , 2011, 298, 012005.	0.4	9
26	Room-temperature magnetic skyrmion in epitaxial thin films of Fe ₂ xPdxMo3N with the filled <i>I ² </i>-Mn-type chiral structure. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	7
27	Generation of sub-100Åfs electron pulses for time-resolved electron diffraction using a direct synchronization method. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	7
28	Mean Transverse Energy Measurement of Negative Electron Affinity GaAs-Based Photocathode. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 046402.	1.5	6
29	Phase-locking of oscillating images using laser-induced spin-polarized pulse TEM. <i>Microscopy (Oxford)</i> , Tj ETQq1 1 0.784314 ggBT /Over	1.5	6
30	Brightness evaluation of pulsed electron gun using negative electron affinity photocathode developed for time-resolved measurement using scanning electron microscope. <i>Ultramicroscopy</i> , 2021, 230, 113386.	1.9	6
31	Temperature dependence of carrier relaxation time in gallium phosphide evaluated by photoemission measurements. <i>AIP Advances</i> , 2017, 7, 115314.	1.3	5
32	Development of Spin-Polarized Pulsed TEM. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012004.	0.4	4
33	Performance of a silicon-on-insulator direct electron detector in a low-voltage transmission electron microscope. <i>Microscopy (Oxford, England)</i> , 2021, 70, 321-325.	1.5	4
34	Initial Emittance Measurements for Polarized Electron Gun with NEA-GaAs Type Photocathode. <i>AIP Conference Proceedings</i> , 2007, .	0.4	3
35	Single-electron spin resonance in a g-factor-controlled semiconductor quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 821-824.	2.7	3
36	Photoinduced oxygen transport in cobalt double-perovskite crystal EuBaCo2O5.39. <i>Applied Materials Today</i> , 2021, 24, 101167.	4.3	3

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37	200 keV Polarized Electron Source at Nagoya University. AIP Conference Proceedings, 2003, , .	0.4	2
38	Production of High Density Polarized Electron Beam from GaAs-GaAsP Superlattice Photocathode. AIP Conference Proceedings, 2007, , .	0.4	2
39	Electron spectroscopy of conduction electrons excited by visible light utilizing NEA surface. , 2013, , .		2
40	Development of the New Type Polarized Electron Source for SPLEEM. AIP Conference Proceedings, 2007, , .	0.4	1
41	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
42	Ultrahigh-resolution direct observation of mini-bands formed in InGaAs/AlGaAs superlattice. , 2013, , .		1
43	Direct measurement of conduction miniband structure in superlattice by visible-light photoemission spectroscopy. , 2014, , .		1
44	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
45	HIGH FIELD GRADIENT POLARIZED ELECTRON GUN FOR ILC. , 2007, , .		1
46	Development of Spin-polarized Pulse-TEM. Materia Japan, 2019, 58, 269-274.	0.1	1
47	Test of cesium telluride photocathode as a feasibility study on polarized RF-gun. AIP Conference Proceedings, 2001, , .	0.4	0
48	Basic R&D Studies for Lower Emittance Polarized Electron Guns. AIP Conference Proceedings, 2003, , .	0.4	0
49	Laser Focusing System for High Brightness Polarized Electron Source for SPLEEM. AIP Conference Proceedings, 2007, , .	0.4	0
50	Spin coherent read, write, manipulation of electrons with light in solids. , 2011, , .		0
51	Measurement of energy distribution of conduction electrons in superlattice by visible-light photoemission spectroscopy. , 2015, , .		0
52	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
53	Coherent pulse beam in spin-polarized TEM using an NEA photocathode. , 2018, , .		0
54	CHARGE LIMITATION EFFECTS IN PHOTOEMISSION FROM GaAsP STRAINED LAYER CATHODE. , 2002, , .		0

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55	PRESENT STATUS OF 200 KEV POLARIZED ELECTRON GUN AT NAGOYA UNIVERSITY. , 2005, , .		0
56	PROPERTIES OF FIELD EMISSION DARK CURRENT FROM MOLYBDENUM AND TITANIUM ELECTRODES. , 2005, , .		0
57	Kuwahara etÂal. Reply:. Physical Review Letters, 2021, 127, 229602.	7.8	0