Hidenori Mimura

List of Publications by Year
in descending order

118	858	687363 13	501196 28
papers	citations	h-index	g-index

120	120	120	968
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precise Deposition of Carbon Nanotube Bundles by Inkjet-Printing on a CMOS-Compatible Platform. Materials, 2022, 15, 4935.	2.9	6
2	High-Temperature Operation Method for Image Pickup Tube. IEEE Electron Device Letters, 2021, 42, 256-259.	3.9	0
3	MORPHOLOGICAL AND PHYSICAL PROPERTIES OF ZnO NANOSTRUCTURES GROWN ON Sb-DOPED ZnO SEEDING FILMS ANNEALED UNDER DIFFERENT ATMOSPHERES. Surface Review and Letters, 2021, 28, .	1.1	0
4	Self-Propelled Aero-GaN Based Liquid Marbles Exhibiting Pulsed Rotation on the Water Surface. Materials, 2021, 14, 5086.	2.9	3
5	A large piezoelectric response in highly-aligned electrospun poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (fluori 32, 015401.	2.6	7
6	Structural Design of TiO2/Si Hybrid Photoelectrode and Pt-Free Counter Photoelectrodes for Charge Carrier Separation in Water-Splitting Reactions. ECS Journal of Solid State Science and Technology, 2021, 10, 103015.	1.8	2
7	Planar type electron emission device using atomic layered materials and it applications. , 2021, , .		0
8	Microscope equipped with graphene-oxide-semiconductor electron source. , 2021, , .		1
9	Controlled Release of Microcantilever from a Silicon-on-Insulator Wafer with Oxide Brace. , 2021, , .		1
10	Development of a Field Emission Image Sensor Tolerant to Gamma-Ray Irradiation. IEEE Transactions on Electron Devices, 2020, 67, 1660-1665.	3.0	8
11	Mechanism of Highly Efficient Electron Emission from a Graphene/Oxide/Semiconductor Structure. ACS Applied Electronic Materials, 2020, 2, 2265-2273.	4.3	18
12	Influence of Mg, Cu, and Ni Dopants on Amorphous TiO2 Thin Films Photocatalytic Activity. Materials, 2020, 13, 886.	2.9	15
13	Physicalâ€“Chemical Properties of Self-Assembled Structures in Solution of Zinc Phthalocyanine and Bis-3-pentyl-PTCDI Derivative. Journal of Physical Chemistry C, 2020, 124, 9470-9483.	3.1	0
14	Observation of CO Detection Using Aluminum-Doped ZnO Nanorods on Microcantilever. Sensors, 2020, 20, 2013.	3.8	9
15	Development of a small Xâ€ray source using an ultraviolet laser and pyroelectric crystal. X-Ray Spectrometry, 2019, 48, 691-695.	1.4	1
16	Field emission spectroscopy measurements of graphene/n-type diamond heterojunction. Applied Physics Letters, 2019, 114, .	3.3	8
17	High-performance planar-type electron source based on a graphene-oxide-semiconductor structure. Applied Physics Letters, 2019, 114, 213501.	3.3	29
18	Electron Emission Mechanism of Heavily Phosphorusâ€Doped Diamond with Oxidized Surface. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1801025.	1.8	0

#	Article	IF	Citations
19	Synthesis and Properties of Al-doped ZnO Thin Films for Photovoltaics. , 2018, , .		2
20	Recent progress in development of radiation tolerant image sensor with field emitter array. , 2018, , .		1
21	Electron emission from nanocrystalline silicon planar cathode in gaseous environments. , 2018, , .		0
22	Modulation of the work function of graphene by Na and Cl coadsorbed on opposite sides on graphene. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, 02C104.	1.2	2
23	Formation of pâ€n Junction in aâ€Se Thin Film and Its Application to High Sensitivity Photodetector Driven by Diamond Cold Cathode. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700161.	1.8	6
24	Process technology for volcano-structured double-gate Spindt-type field emitter arrays. , 2017, , .		0
25	Characterization of amorphous selenium based photoconductor for a high-sensitivity photodetector driven by diamond cold cathode. , 2017, , .		0
26	Dependence of light polarization on electron emission from gated silicon field emitter arrays. , 2017, , .		0
27	Study of alkali photocathode for ultrafast electron pulse. , 2017, , .		0
28	Expectation to Vacuum Nano-electronics. Journal of the Vacuum Society of Japan, 2017, 60, 2-7.	0.3	3
29	CO Gas-Induced Resonance Frequency Shift of ZnO-Functionalized Microcantilever in Humid Air. Journal of Nanomaterials, 2017, 2017, 1-7.	2.7	10
30	Modification of internal barrier in hydrogenâ€terminated heavily phosphorusâ€doped diamond for field emission. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2063-2068.	1.8	3
31	Modulation of the work function of graphene by Na and Cl co-adsorbed on opposite sides on graphene. , 2016, , .		0
32	Development of CdTe based photoconductive target for radiation tolerant compact image sensors. , 2016, , .		1
33	Permeation of electron beam through graphene. , 2016, , .		0
34	Beam profile measurement of volcano-structured double-gate Spindt-type field emitter arrays. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	22
35	Rapid-Response, Widely Stretchable Sensor of Aligned MWCNT/Elastomer Composites for Human Motion Detection. ACS Sensors, 2016, 1, 817-825.	7.8	165
36	Design of a 300ÂGHz Band TWT with a Folded Waveguide Fabricated by Microelectromechanical Systems. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1166-1172.	2.2	7

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37	Field emission from gated silicon field emitter array induced by sub-nanosecond laser pulses. , 2016, , .		0
38	Electron emission from conduction band of heavily phosphorus doped diamond negative electron affinity surface. Journal Physics D: Applied Physics, 2016, 49, 045102.	2.8	13
39	Coreâ€“Shell Approach to Control Acidâ€“Base Properties of Surface of Dielectric and Permittivity of Its Composite. Chemistry Letters, 2015, 44, 197-199.	1.3	24
40	Color scheme adjustment by fuzzy constraint satisfaction for color vision deficiencies. Color Research and Application, 2015, 40, 446-464.	1.6	7
41	Activation process of GaAs NEA photocathode and its spectral sensitivity. , 2015, , .		0
42	<inline-formula> <tex-math notation="LaTeX">$In Situ$ </tex-math></inline-formula> Measurement of Charging Process in Electret-Based Comb-Drive Actuator and High-Voltage Charging. Journal of Microelectromechanical Systems, 2015, 24, 1052-1060.	2.5	12
43	Beam profile measurement of volcano-structured double-gated Spindt-type filed emitter arrays. , 2015, , .		0
44	Photoresponse of p-type silicon emitter array. , 2015, , .		0
45	Research project on development of radiation tolerant compact image sensor with a field emitter array. , 2015, , .		5
46	Class Responsibility Assignment as Fuzzy Constraint Satisfaction. , 2014, , .		1
47	Neutron detection using boron gallium nitride semiconductor material. APL Materials, 2014, 2, .	5.1	24
48	Laser-induced electron emission from p-type silicon emitters. , 2014, , .		0
49	Field emission characteristics of graphite field emitters. , 2014, , .		0
50	Plasmachemical modification effect on luminescence of AIIBVI phosphors. Journal of Luminescence, 2014, 156, 69-73.	3.1	5
51	Optically modulated electron emission from nanocrystalline silicon based metal-oxide-semiconductor cathodes. , 2013, , .		0
52	Field Emitter Equipped With a Suppressor to Control Emission Angle. IEEE Electron Device Letters, 2013, 34, 704-706.	3.9	3
53	Measurement of polarization phenomena in CdTe radiation detector by optical laser pulses. , 2013, , .		0
54	1 X-ray Imaging. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2013, 67, 447-450.	0.1	0

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55	Photoresponse of nanocrystalline silicon based MOS cathodes. , 2012, , .		0
56	New photo cathode driven by surface plasmon resonance. , 2012, , .		0
57	Temporal changes of output signals from CdTe radiation detector measured by optical laser pulses. , 2012, , .		0
58	Field emitter technology for nanovision science. , 2012, , .		0
59	The electron optics properties of micro-column with field emitter. , 2012, , .		1
60	Modulation of the Work Function of Capped Single-Walled Carbon Nanotube by Alkali-Metal Adsorption: A Theoretical Study. Journal of Physical Chemistry C, 2011, 115, 8928-8933.	3.1	25
61	Color Scheme Adjustment by Fuzzy Constraint Satisfaction for Three Types of Color Vision Deficiency. Transactions of the Japanese Society for Artificial Intelligence, 2011, 26, 518-526.	0.1	1
62	Fabrication of field emitters using GaN particles. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1832-1834.	0.8	0
63	Fabrication of a spinâ€polarized electron emitter with <110>â€oriented magnetite whisker. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2574-2577.	0.8	1
64	Sequential multi sliced X-ray CT by using vertical projection for high speed CT. , 2010, , .		0
65	P1–20: Specifying the necessary conditions for cloverleaf patterns formation in field emission microscope. , 2010, , .		0
66	6.2: A multi-gated FEA for low energy acceleration micro-column microscopes. , 2010, , .		0
67	Verwey transition in field-emitted electrons from single âŸ¨110âŸ©-oriented magnetite whisker. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C2A24-C2A27.	1.2	2
68	P2–7: Pulsed thermionic emission from carbon nanotube fibers. , 2010, , .		0
69	Revealing real images of cloverleaf pattern emission sites by using field ion microscopy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C2A1-C2A4.	1.2	6
70	11.4: Thermionic emission from long spun carbon nanotube fiber. , 2010, , .		0
71	10.1: New functioned field emission array to controllable initial emission angle by introducing a suppressor gate. , 2010, , .		1
72	P1–13: Revised fabrication of field emitters with a multi-stacked electrostatic lens. , 2010, , .		0

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73	Development of a CdTe x-ray imaging device driven by a vertical thin film field emission array. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C2D22-C2D25.	1.2	1
74	P1–24: Photo-assisted electron emission from MOS-type cathode based on nanocrystalline silicon. , 2010, , .		5
75	Cathodoluminescence Properties of ZnO Tower-Like Structures Prepared by Thermal Oxidation. E-Journal of Surface Science and Nanotechnology, 2009, 7, 358-361.	0.4	5
76	Cathodoluminescence of Single Disk-Like ZnO Prepared by Low Temperature Solution-Based Method. E-Journal of Surface Science and Nanotechnology, 2009, 7, 354-357.	0.4	2
77	Nano-sized hexagonal platelet-like ZnO for the nano-phosphor application. , 2009, , .		0
78	Emission characteristics and application of graphite nanospine cathode. , 2009, , .		0
79	Vacuum nanoelectronics for nanovision science. , 2009, , .		0
80	Electron emission characteristics of BaTiO<inf>3</inf> thin films. , 2009, , .		0
81	Vertical thin film field emitter array for high resolution CdTe X-ray imaging device. , 2009, , .		1
82	Emission uniformity of nanocrystalline silicon based metal-oxide-semiconductor cathodes. , 2009, , .		0
83	Fabrication and emission characteristics for a single magnetite whisker. , 2009, , .		0
84	The control of carbon nanotubes density by gas-phase catalytic chemical vapor deposition. , 2009, , .		0
85	Undoped ZnO phosphor with high luminescence efficiency grown by thermal oxidation. Journal of Applied Physics, 2008, 104, 073512.	2.5	5
86	One-step grown aligned bulk carbon nanotubes by chloride mediated chemical vapor deposition. Applied Physics Letters, 2008, 92, .	3.3	137
87	LOW VOLTAGE ELECTRON EMISSION FROM BaTiO₃ FERROELECTRIC THIN FILMS. Integrated Ferroelectrics, 2008, 104, 25-33.	0.7	2
88	Low Voltage Electron Emission from BaTiO3 Thin Films Treated in Hydrochloric Acid. E-Journal of Surface Science and Nanotechnology, 2008, 6, 164-166.	0.4	1
89	X-ray Imaging Technology using Field Emission Array. Hyomen Kagaku, 2008, 29, 701-706.	0.0	0
90	Smith-Purcell Radiation from Ultraviolet to Infrared Using a Si-field Emitter. , 2007, , .		0

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91	Fabrication and characteristics of novel graphite field emitters for application to electron-beam-pumped light sources. Journal of Vacuum Science & Technology B, 2007, 25, 666.	1.3	5
92	Current-voltage and electron emission characteristics of diamond particles. Journal of Vacuum Science & Technology B, 2007, 25, 540.	1.3	1
93	Improvement of emission efficiency of nanocrystalline silicon planar cathodes. , 2007, , .		0
94	The detailed analysis of field emission under stabilized operation using field effect transistor. , 2007, , .		0
95	Electron-beam-pumped Light Sources Using Field Emitters. , 2007, , .		0
96	BaTiO<inf>3</inf> thin films for ferroelectric electron emission. , 2007, , .		0
97	The Status of Field Emission Displays. , 2007, , .		2
98	Emission Properties of Metal-oxide-semiconductor Cathodes based on Nanocrystalline Silicon. , 2007, , .		0
99	Electron-beam-pumped light sources using graphite nanoneedle field emitters and Si electron-transparent films. IEEJ Transactions on Electrical and Electronic Engineering, 2007, 2, 272-277.	1.4	0
100	Dependence of the Light Emission Characteristics on the Ne Gas Pressure in an Electron-beam-pumped Light Source Using a Field Emitter. Shinku/Journal of the Vacuum Society of Japan, 2007, 50, 319-323.	0.2	0
101	Electron emission from planar-type cathodes based on nanocrystalline silicon thin films. Journal of Vacuum Science & Technology B, 2006, 24, 971.	1.3	6
102	Smith-Purcell radiation from ultraviolet to infrared using a Si field emitter. Journal of Vacuum Science & Technology B, 2006, 24, 924.	1.3	21
103	CdTe X-ray Sensing Driven by Electron Beam From Field Emitters. , 2006, , .		0
104	Electron Emission from Nanocrystalline Silicon Based Metal-Oxide-Semiconductor Cathodes. , 2006, , .		0
105	Fabrication and Characteristics of Novel Graphite Field-Emitters for Application to Electron-Beam Pumped Light Sources. , 2006, , .		0
106	Stable Electron Emission from Graphite-Nanoneedles and Their Application to Scanning Electron Microscopes. , 2006, , .		0
107	Fabrication and Characteristics of Double-Gated Field Emitters with Thick Extraction Gate Electrode. , 2006, , .		0
108	Electron Emission from Ferroelectrics Copolymer Thin Film (PVDF-TRFE) Cathode Excited by Voltage Pulses. , 2006, , .		0

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109	I-V Characteristic of Diamond Pparticles and Planner Electron Emission Based on Diamond Films. , 2006, , .		0
110	Fabrication and Characteristics of GaAs Field Emitters. , 2006, , .		0
111	Smithâ€“Purcell radiation using a single-tip field emitter. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 840.	1.6	10
112	High intensity pulse x-ray generation by using graphite-nanocrater cold cathode. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 831.	1.6	14
113	Energy distributions of field emission electrons from silicon emitters. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 687.	1.6	6
114	Intense electron emission from graphite nanocraters and their application to time-resolved x-ray radiography. Applied Physics Letters, 2004, 84, 1804-1806.	3.3	27
115	Energyâ€band discontinuities in a heterojunction of amorphous hydrogenated Si and crystalline Si measured by internal photoemission. Applied Physics Letters, 1987, 50, 326-328.	3.3	86
116	The use of amorphousâ€crystalline silicon heterojunctions for the application to an imaging device. Journal of Applied Physics, 1987, 61, 2575-2580.	2.5	33
117	Optoelectrical properties of amorphousâ€crystalline silicon heterojunctions. Applied Physics Letters, 1984, 45, 452-454.	3.3	25
118	Diamond Radiation Detector with Builtâ€In Boronâ€Doped Neutron Converter Layer. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100315.	1.8	1