

Kazushi Miki

List of Publications by Year in descending order

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101
papers

1,641
citations

304368

22
h-index

329751

37
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101
all docs

101
docs citations

101
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
19	Chemical coating of large-area Au nanoparticle two-dimensional arrays as plasmon-resonant optics. Applied Physics Letters, 2010, 97, 221101.	1.5	25
20	SERS-based immunoassay on 2D-arrays of Au@Ag core-shell nanoparticles: influence of the sizes of the SERS probe and sandwich immunocomplex on the sensitivity. RSC Advances, 2017, 7, 14099-14106.	1.7	24
21	Effect of a surfactant on the growth of Si/Ge heterostructures. Thin Solid Films, 1992, 222, 112-115.	0.8	23
22	Encapsulation of atomic-scale Bi wires in epitaxial silicon without loss of structure. Physical Review B, 2005, 72, .	1.1	22
23	Electronic structure of Si(110)-studied by scanning tunneling spectroscopy and density functional theory. Physical Review B, 2011, 84, .	1.1	22
24	Alignment-Induced Epitaxial Transition in Organic-Organic Heteroepitaxy. Physical Review Letters, 2008, 101, 236103.	2.9	21
25	Rheed Observation of Lattice Relaxation During Ge/Si(O01) Heteroepitaxy. Materials Research Society Symposia Proceedings, 1989, 148, 323.	0.1	20
26	Square-centimeter-scale 2D-arrays of Au@Ag core-shell nanoparticles towards practical SERS substrates with enhancement factor of 107. Chemical Physics Letters, 2014, 605-606, 115-120.	1.2	19
27	Selective Growth of Cu Nanowires on Si(111) Substrates. Japanese Journal of Applied Physics, 2003, 42, L1210-L1212.	0.8	17
28	Polymer-Based Organic Field-Effect Transistors with Active Layers Aligned by Highly Hydrophobic Nanogrooved Surfaces. Advanced Functional Materials, 2019, 29, 1905365.	7.8	16
29	STM images of anisotropic atomic steps on si(111)-7 \times 7 surfaces. Journal of Crystal Growth, 1990, 99, 1329-1332.	0.7	15
30	Nonvortical Rashba Spin Structure on a Surface with C1hSymmetry. Physical Review Letters, 2016, 117, 016803.	2.9	15
31	Si submonolayer and monolayer digital growth operation techniques using Si ₂ H ₆ as atomically controlled growth nanotechnology. Applied Surface Science, 2003, 216, 424-430.	3.1	14
32	New method to characterize mesoscopic range and very small strain with using multi-wave X-ray diffraction. Surface Science, 2004, 550, 93-105.	0.8	14
33	Highly Localized Light Field on Metallic Nanoarrays Prepared with DNA Nanofibers. Analytical Sciences, 2009, 25, 1177-1179.	0.8	14
34	Highly polarized polymer-based light-emitting diodes fabricated by using very thin photoaligned polyimide layers. Journal of Applied Physics, 2010, 107, .	1.1	14
35	Structural Analysis of Bismuth Nanowire by X-Ray Standing Wave Method. Japanese Journal of Applied Physics, 2003, 42, 2408-2411.	0.8	13
36	Step structure of Si(110)-(16 \times 2)and adsorption ofH ₂ O. Physical Review B, 2010, 82, .	1.1	13

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37	Spatially Uniform Thin-Film Formation of Polymeric Organic Semiconductors on Lyophobic Gate Insulator Surfaces by Self-Assisted Flow-Coating. ACS Applied Materials & Interfaces, 2017, 9, 6237-6245.	4.0	13
38	Selective Growth of Ag Nanowires on Si(111) Surfaces by Electroless Deposition. Journal of Physical Chemistry B, 2005, 109, 12655-12657.	1.2	12
39	SrTiO ₃ (100) $\sqrt{5} \times \sqrt{5}$ R26.6 surface observed by high-resolution scanning tunneling microscopy. Surface Science, 2011, 605, 1304-1307.	0.8	12
40	Trimeric precursors in formation of Al magic clusters on a Si(111)- $\sqrt{7} \times \sqrt{7}$ surface. Physical Review B, 2011, 83, .	1.1	12
41	Leakage Current Distribution of Cu-Contaminated Thin SiO ₂ . Japanese Journal of Applied Physics, 2003, 42, L160-L162.	0.8	11
42	Identification of intermediate linear structure formed during Bi/Si(001) surface anneal. Surface Science, 2005, 596, 163-175.	0.8	11
43	Selective Growth of Monoatomic Cu Rows at Step Edges on Si(111) Substrates in Ultralow-Dissolved-Oxygen Water. Japanese Journal of Applied Physics, 2005, 44, L613-L615.	0.8	11
44	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	3.1	10
45	Hybrid Laser Activation of Highly Concentrated Bi Donors in Wire- δ -Doped Silicon. Applied Physics Express, 2010, 3, 061302.	1.1	9
46	Plasmon-Resonant Optics on an Indium-Tin-Oxide Film for Exciting a Two-Photon Photochromic Reaction. Applied Physics Express, 2013, 6, 102001.	1.1	9
47	Small device-to-device variation of 6,13-bis(triisopropylsilylethynyl)pentacene field-effect transistor arrays fabricated by a flow-coating method. Japanese Journal of Applied Physics, 2014, 53, 02BE01.	0.8	9
48	Imaging of hydrogen-induced Si(111) surface with the scanning tunnelling microscope. Journal of Microscopy, 1988, 152, 743-750.	0.8	8
49	Interface states of SiO ₂ /Si(111) observed by an atomic force microscope. Surface Science, 1999, 443, L1055-L1058.	0.8	8
50	Analysis on electrical properties of ultrathin SiO ₂ /Si(111) interfaces with an atomic force microscope. Applied Surface Science, 2000, 162-163, 547-552.	3.1	8
51	A probe-positioning method with two-dimensional calibration pattern for micro-multi-point probes. Review of Scientific Instruments, 2003, 74, 2722-2725.	0.6	8
52	Electron-stimulated athermal surface recrystallization of Si(100). Journal of Physics Condensed Matter, 2004, 16, L193-L200.	0.7	8
53	Surface bismuth removal after Bi nanoline encapsulation in silicon. Surface Science, 2005, 595, L311-L317.	0.8	8
54	Light exposure dependence of molecular orientation of glassy polyfluorene layers formed on photo-aligned polyimide films. Colloids and Surfaces B: Biointerfaces, 2007, 56, 260-264.	2.5	8

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55	Behaviors of surfactant atoms on Si(001) surface. Journal of Electron Microscopy, 2004, 53, 325-337.	0.9	7
56	Electronic structure of a polymer nanowire on H-terminated Si(100). Journal of Applied Physics, 2005, 97, 124302.	1.1	7
57	Polyimide Photo-Alignment Films Applicable to Poly[(9,9-Dioctylfluorenyl-2,7-Diyl)-Co-Bithiophene]. Molecular Crystals and Liquid Crystals, 2007, 475, 33-43.	0.4	7
58	Enhancement of self-assembly of large (>10 nm) gold nanoparticles on an ITO substrate. Applied Physics Express, 2014, 7, 065001.	1.1	7
59	Assembly of Mid-Nanometer-Sized Gold Particles Capped with Mixed Alkanethiolate SAMs into High-Coverage Colloidal Films. Langmuir, 2015, 31, 13494-13500.	1.6	7
60	Demonstration of low-temperature atomic force microscope with atomic resolution using piezoresistive cantilevers. Review of Scientific Instruments, 2006, 77, 023705.	0.6	6
61	Fabrication of a Memory Chip by a Complete Self-Assembly Process Using State-of-the-Art Multilevel Cell (MLC) Technology. Advanced Functional Materials, 2008, 18, 1173-1177.	7.8	6
62	Photoalignment efficiency enhancement of polyimide alignment layers by alkyl-amine vapor treatment. Applied Physics Express, 2014, 7, 081701.	1.1	6
63	RECIPROCAL-LATTICE SPACE IMAGING OF X-RAY INTENSITIES DIFFRACTED FROM NANOWIRES. Materials Research Society Symposia Proceedings, 2004, 840, Q6.4.1.	0.1	4
64	Leakage Current Distribution and Dielectric Breakdown of Cu-Contaminated Thin SiO ₂ . Journal of the Electrochemical Society, 2004, 151, F81.	1.3	4
65	Electronic structure of Bi lines on clean and H-passivated Si(100). Journal of Physics Condensed Matter, 2010, 22, 175006.	0.7	4
66	Atomic layer doping of Mn magnetic impurities from surface chains at a Ge/Si hetero-interface. Nanoscale, 2018, 10, 295-301.	2.8	4
67	Mechanistic Study of Silane Alcoholysis Reactions with Self-Assembled Monolayer-Functionalized Gold Nanoparticle Catalysts. Catalysts, 2020, 10, 908.	1.6	4
68	Etching-enhanced surface stress relaxation during initial ozone oxidation. Surface Science, 2007, 601, 1384-1388.	0.8	3
69	Design, synthesis, and complementary recognition of β^2 -hairpin peptides stabilized by artificial DNA base-pairing amino acids. Chemical Communications, 2010, 46, 2947.	2.2	3
70	Selective Two-Photon-Absorption-Induced Reactions of Anthracene-2-Carboxylic Acid on Tunable Plasmonic Substrate with Incoherent Light Source. Journal of Nanoscience and Nanotechnology, 2015, 15, 1171-1179.	0.9	3
71	Dopant activation mechanism of Bi wire-doping into Si crystal, investigated with wavelength dispersive fluorescence x-ray absorption fine structure and density functional theory. Journal of Physics Condensed Matter, 2017, 29, 155001.	0.7	3
72	Formation of Uniform and High-Coverage Monolayer Colloidal Films of Midnanometer-Sized Gold Particles over the Entire Surfaces of 1.5-in. Substrates. Langmuir, 2017, 33, 9954-9960.	1.6	3

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73	Effects of neat C60 doping on the performance of bulk-heterojunction solar cells based on P3HT:PCBM. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 653, 125-130.	0.4	3
74	Laying down of gold nanorods monolayers on solid surfaces for surface enhanced Raman spectroscopy applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26822-26828.	1.3	3
75	Current effects in electronically phase-separated Pr _{0.7} Pb _{0.3} MnO ₃ single crystals. <i>Journal of Applied Physics</i> , 2006, 99, 08Q301.	1.1	2
76	Nanoline Templating of metals and the underlying surface processes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 961, 1.	0.1	2
77	Light exposure dependence of field-effect mobility of pentacene thin films deposited on very thin polyimide photo-alignment layers. <i>Journal of Applied Physics</i> , 2012, 111, 123702.	1.1	2
78	Photo-alignment Property of Azobenzene-containing Polyimide Films Swollen by Alkyl-amine. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 153-159.	0.4	2
79	Thermoelectric Properties in Transparent-Conductive Cerium-Doped In ₂ O ₃ Films. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012, 10, 471-475.	0.1	2
80	Characterization of Highly Concentrated Bi Donors Wire- δ -Doped in Si. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE05.	0.8	2
81	Local Dielectric Degradation of Cu-Contaminated SiO ₂ Thin Films. <i>Solid State Phenomena</i> , 2004, 95-96, 641-646.	0.3	1
82	Determination of crystal orientation by an area-detector image for surface X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2005, 38, 319-323.	1.9	1
83	Current effects and topology of current paths in single crystalline Pr _{0.7} Pb _{0.3} MnO ₃ . <i>Journal of Applied Physics</i> , 2006, 100, 113902.	1.1	1
84	Characterization of Highly Concentrated Bi Donors Wire- δ -Doped in Si. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE05.	0.8	1
85	Surface Potential Change of Cationic Nanoparticles by Polymer Coating. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014, 27, 273-276.	0.1	1
86	Autosurfactant of the second kind: Bi enables δ -doping of Bi in Si. <i>Applied Physics Letters</i> , 2017, 111, 152104.	1.5	1
87	Direct observation of the Si(110)-(16 \times 2) surface reconstruction by atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1750-1756.	1.5	1
88	Initial Adsorption of C60 Molecules on Si(111)-7 \times 7 Surface with Al Nanocluster Array. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010, 8, 354-357.	0.1	1
89	Nanostructural Characterization of Surfaces, Interfaces, and Thinfilms using X-ray Reciprocal-Lattice Space Imaging. <i>Nihon Kessho Gakkaishi</i> , 2007, 49, 292-299.	0.0	1
90	<i>In situ</i> observation of x-ray irradiation effect by using a multiwave x-ray diffraction phenomenon. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	0

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91	New Catalysis Concept: Enhanced Catalytic Activity of Self-Assembled Monolayer-Capped Gold Nanoparticles (Adv. Mater. 48/2012). Advanced Materials, 2012, 24, 6388-6388.	11.1	0
92	Pretilt angle of liquid crystals generated by polyimide photoalignment layers treated with vapor of primary and tertiary alkylamines. Proceedings of SPIE, 2016, , .	0.8	0
93	Fabrication of Metallic Nanoarrays using DNA Templates. Hyomen Kagaku, 2007, 28, 372-377.	0.0	0
94	Transmission X-ray Diffraction from Bismuth Lines Embedded in Silicon. Transactions of the Materials Research Society of Japan, 2008, 33, 619-622.	0.2	0
95	X-ray Diffraction from Buried Bi atomic wire formed on Si(001) - near the Bi LIII Absorption Edge. Transactions of the Materials Research Society of Japan, 2008, 33, 623-624.	0.2	0
96	Formation of DNA Nanofibers by Solvent Evaporation. Hyomen Kagaku, 2009, 30, 439-443.	0.0	0
97	Racemic (RSC,SRS)-(2-[[1-allyloxycarbonyl-3-(methylsulfanyl)propyl]iminomethyl]phenyl- λ^3 S,N,C1)chloridoplatinum(II). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m1401-m1401.	0.2	0
98	Mesoscopic-Scale and Small Strain Field beneath SiO ₂ /Si Interface Revealed by a Multiple-Wave X-ray Diffraction Phenomenon - Depth of the Strain Field. E-Journal of Surface Science and Nanotechnology, 2011, 9, 47-50.	0.1	0
99	Microscopic Analyses of Semiconductor Surfaces by STM. , 1990, , 1491-1498.		0
100	Thermal oxidation process on Si(113)-(3 Å ⁻²) investigated using high-temperature scanning tunneling microscopy. Beilstein Journal of Nanotechnology, 2022, 13, 172-181.	1.5	0
101	Activation of two dopants, Bi and Er in $\hat{\Gamma}$ -doped layer in Si crystal. Nano Futures, 2021, 5, 045005.	1.0	0