

Kazushi Miki

List of Publications by Year in descending order

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papers

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304368

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times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal oxidation process on Si(113)-(3 Å ⁻²) investigated using high-temperature scanning tunneling microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2022, 13, 172-181.	1.5	0
2	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
3	Activation of two dopants, Bi and Er in $\hat{\Gamma}$ -doped layer in Si crystal. <i>Nano Futures</i> , 2021, 5, 045005.	1.0	0
4	Direct observation of the Si(110)-(16 Å ⁻²) surface reconstruction by atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 1750-1756.	1.5	1
5	Mechanistic Study of Silane Alcoholysis Reactions with Self-Assembled Monolayer-Functionalized Gold Nanoparticle Catalysts. <i>Catalysts</i> , 2020, 10, 908.	1.6	4
6	Polymer-Based Organic Field-Effect Transistors with Active Layers Aligned by Highly Hydrophobic Nanogrooved Surfaces. <i>Advanced Functional Materials</i> , 2019, 29, 1905365.	7.8	16
7	Atomic layer doping of Mn magnetic impurities from surface chains at a Ge/Si hetero-interface. <i>Nanoscale</i> , 2018, 10, 295-301.	2.8	4
8	Dopant activation mechanism of Bi wire- $\hat{\Gamma}$ -doping into Si crystal, investigated with wavelength dispersive fluorescence x-ray absorption fine structure and density functional theory. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 155001.	0.7	3
9	Spatially Uniform Thin-Film Formation of Polymeric Organic Semiconductors on Lyophobic Gate Insulator Surfaces by Self-Assisted Flow-Coating. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6237-6245.	4.0	13
10	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. <i>RSC Advances</i> , 2017, 7, 14099-14106.	1.7	24
11	Autosurfactant of the second kind: Bi enables $\hat{\Gamma}$ -doping of Bi in Si. <i>Applied Physics Letters</i> , 2017, 111, 152104.	1.5	1
12	Formation of Uniform and High-Coverage Monolayer Colloidal Films of Midnanometer-Sized Gold Particles over the Entire Surfaces of 1.5-in. Substrates. <i>Langmuir</i> , 2017, 33, 9954-9960.	1.6	3
13	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
14	Pretilt angle of liquid crystals generated by polyimide photoalignment layers treated with vapor of primary and tertiary alkylamines. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
15	Extrinsic surface-enhanced Raman scattering detection of influenza A virus enhanced by two-dimensional gold@silver core-shell nanoparticle arrays. <i>RSC Advances</i> , 2016, 6, 97791-97799.	1.7	27
16	Nonvortical Rashba Spin Structure on a Surface with C1hSymmetry. <i>Physical Review Letters</i> , 2016, 117, 016803.	2.9	15
17	Selective Two-Photon-Absorption-Induced Reactions of Anthracene-2-Carboxylic Acid on Tunable Plasmonic Substrate with Incoherent Light Source. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1171-1179.	0.9	3
18	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

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19	Assembly of Mid-Nanometer-Sized Gold Particles Capped with Mixed Alkanethiolate SAMs into High-Coverage Colloidal Films. <i>Langmuir</i> , 2015, 31, 13494-13500.	1.6	7
20	Enhancement of self-assembly of large (>10 nm) gold nanoparticles on an ITO substrate. <i>Applied Physics Express</i> , 2014, 7, 065001.	1.1	7
21	Small device-to-device variation of 6,13-bis(triisopropylsilylethynyl)pentacene field-effect transistor arrays fabricated by a flow-coating method. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BE01.	0.8	9
22	Square-centimeter-scale 2D-arrays of Au@Ag core-shell nanoparticles towards practical SERS substrates with enhancement factor of 107. <i>Chemical Physics Letters</i> , 2014, 605-606, 115-120.	1.2	19
23	A visible light-driven plasmonic photocatalyst. <i>Light: Science and Applications</i> , 2014, 3, e133-e133.	7.7	190
24	Surface Potential Change of Cationic Nanoparticles by Polymer Coating. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 273-276.	0.1	1
25	Photoalignment efficiency enhancement of polyimide alignment layers by alkyl-amine vapor treatment. <i>Applied Physics Express</i> , 2014, 7, 081701.	1.1	6
26	Plasmon-Resonant Optics on an Indium-Tin-Oxide Film for Exciting a Two-Photon Photochromic Reaction. <i>Applied Physics Express</i> , 2013, 6, 102001.	1.1	9
27	Characterization of Highly Concentrated Bi Donors Wire- δ -Doped in Si. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE05.	0.8	1
28	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
29	Enhanced Catalytic Activity of Self-Assembled Monolayer-Capped Gold Nanoparticles. <i>Advanced Materials</i> , 2012, 24, 6462-6467.	11.1	96
30	New Catalysis Concept: Enhanced Catalytic Activity of Self-Assembled Monolayer-Capped Gold Nanoparticles (Adv. Mater. 48/2012). <i>Advanced Materials</i> , 2012, 24, 6388-6388.	11.1	0
31	Anisotropic charge transport and contact resistance of 6,13-bis(triisopropylsilylethynyl) pentacene field-effect transistors fabricated by a modified flow-coating method. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	68
32	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
33	Characterization of Highly Concentrated Bi Donors Wire- δ -Doped in Si. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 11PE05.	0.8	2
34	High-density G-centers, light-emitting point defects in silicon crystal. <i>AIP Advances</i> , 2011, 1, .	0.6	27
35	<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
36	SrTiO ₃ (100) $\sqrt{5} \times \sqrt{5}$ R26.6 surface observed by high-resolution scanning tunneling microscopy. <i>Surface Science</i> , 2011, 605, 1304-1307.	0.8	12

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37	Electronic structure of Si(110)-($\sqrt{7} \times \sqrt{7}$) studied by scanning tunneling spectroscopy and density functional theory. Physical Review B, 2011, 84, .	1.1	22
38	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
39	Anisotropic field-effect hole mobility of liquid crystalline conjugated polymer layers formed on photoaligned polyimide films. Journal of Applied Physics, 2011, 109, .	1.1	29
40	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
41	Hybrid Laser Activation of Highly Concentrated Bi Donors in Wire- δ -Doped Silicon. Applied Physics Express, 2010, 3, 061302.	1.1	9
42	Step structure of Si(110)-($\sqrt{2} \times \sqrt{2}$) and adsorption of H ₂ O. Physical Review B, 2010, 82, .	1.1	13
43	Electronic structure of Bi lines on clean and H-passivated Si(100). Journal of Physics Condensed Matter, 2010, 22, 175006.	0.7	4
44	Chemical coating of large-area Au nanoparticle two-dimensional arrays as plasmon-resonant optics. Applied Physics Letters, 2010, 97, 221101.	1.5	25
45	Design, synthesis, and complementary recognition of β -hairpin peptides stabilized by artificial DNA base-pairing amino acids. Chemical Communications, 2010, 46, 2947.	2.2	3
46	Highly polarized polymer-based light-emitting diodes fabricated by using very thin photoaligned polyimide layers. Journal of Applied Physics, 2010, 107, .	1.1	14
47	Initial Adsorption of C ₆₀ Molecules on Si(111)- $\sqrt{7} \times \sqrt{7}$ Surface with Al Nanocluster Array. E-Journal of Surface Science and Nanotechnology, 2010, 8, 354-357.	0.1	1
48	Electronic structure of the Si(111)-($\sqrt{7} \times \sqrt{7}$) surface. High-resolution ARPES and STM investigation. Physical Review B, 2009, 79, .	1.1	1104
49	Simple one-step growth and parallel alignment of DNA nanofibers via solvent vapor-induced buildup. Chemical Communications, 2009, , 1858.	2.2	27
50	Highly Localized Light Field on Metallic Nanoarrays Prepared with DNA Nanofibers. Analytical Sciences, 2009, 25, 1177-1179.	0.8	14
51	Formation of DNA Nanofibers by Solvent Evaporation. Hyomen Kagaku, 2009, 30, 439-443.	0.0	0
52	Racemic (RSC,SRS)-(2-[[1-allyloxycarbonyl-3-(methylsulfanyl)propyl]iminomethyl]phenyl- η^3 S,N,C1)chloridoplatinum(II). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m1401-m1401.	0.2	0
53	Defective Continuous Hydrogen-Bond Networks: An Alternative Interpretation of IR Spectroscopy. ChemPhysChem, 2008, 9, 1914-1919.	1.0	25
54	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

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55	Alignment-Induced Epitaxial Transition in Organic-Organic Heteroepitaxy. <i>Physical Review Letters</i> , 2008, 101, 236103.	2.9	21
56	Transmission X-ray Diffraction from Bismuth Lines Embedded in Silicon. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 619-622.	0.2	0
57	X-ray Diffraction from Buried Bi atomic wire formed on Si(001) - near the Bi LIII Absorption Edge. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 623-624.	0.2	0
58	Orientation control of pentacene molecules and transport anisotropy of the thin film transistors by photoaligned polyimide film. <i>Applied Physics Letters</i> , 2007, 90, 102117.	1.5	29
59	Very thin photoalignment films for liquid crystalline conjugated polymers: Application to polarized light-emitting diodes. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	32
60	Structural Correlations in Liquid Water: A New Interpretation of IR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10119-10122.	1.1	111
61	Polyimide Photo-Alignment Films Applicable to Poly[(9,9-Dioctylfluorenyl-2,7-Diyl)-Co-Bithiophene]. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 475, 33-43.	0.4	7
62	Light exposure dependence of molecular orientation of glassy polyfluorene layers formed on photo-aligned polyimide films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 56, 260-264.	2.5	8
63	Etching-enhanced surface stress relaxation during initial ozone oxidation. <i>Surface Science</i> , 2007, 601, 1384-1388.	0.8	3
64	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
65	Fabrication of Metallic Nanoarrays using DNA Templates. <i>Hyomen Kagaku</i> , 2007, 28, 372-377.	0.0	0
66	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
67	Self-assembled nanowires on semiconductor surfaces. <i>Journal of Materials Science</i> , 2006, 41, 4568-4603.	1.7	89
68	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
69	Nanoline Templating of metals and the underlying surface processes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 961, 1.	0.1	2
70	Demonstration of low-temperature atomic force microscope with atomic resolution using piezoresistive cantilevers. <i>Review of Scientific Instruments</i> , 2006, 77, 023705.	0.6	6
71	Surface bismuth removal after Bi nanoline encapsulation in silicon. <i>Surface Science</i> , 2005, 595, L311-L317.	0.8	8
72	Identification of intermediate linear structure formed during Bi/Si(001) surface anneal. <i>Surface Science</i> , 2005, 596, 163-175.	0.8	11

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73	Determination of crystal orientation by an area-detector image for surface X-ray diffraction. Journal of Applied Crystallography, 2005, 38, 319-323.	1.9	1
74	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
75	Encapsulation of atomic-scale Bi wires in epitaxial silicon without loss of structure. Physical Review B, 2005, 72, .	1.1	22
76	Electronic structure of a polymer nanowire on H-terminated Si(100). Journal of Applied Physics, 2005, 97, 124302.	1.1	7
77	Selective Growth of Ag Nanowires on Si(111) Surfaces by Electroless Deposition. Journal of Physical Chemistry B, 2005, 109, 12655-12657.	1.2	12
78	Local Dielectric Degradation of Cu-Contaminated SiO ₂ Thin Films. Solid State Phenomena, 2004, 95-96, 641-646.	0.3	1
79	Electron-stimulated athermal surface recrystallization of Si(100). Journal of Physics Condensed Matter, 2004, 16, L193-L200.	0.7	8
80	Behaviors of surfactant atoms on Si(001) surface. Journal of Electron Microscopy, 2004, 53, 325-337.	0.9	7
81	RECIPROCAL-LATTICE SPACE IMAGING OF X-RAY INTENSITIES DIFFRACTED FROM NANOWIRES. Materials Research Society Symposia Proceedings, 2004, 840, Q6.4.1.	0.1	4
82	Leakage Current Distribution and Dielectric Breakdown of Cu-Contaminated Thin SiO ₂ . Journal of the Electrochemical Society, 2004, 151, F81.	1.3	4
83	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
84	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	3.1	10
85	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
86	Structural Analysis of Bismuth Nanowire by X-Ray Standing Wave Method. Japanese Journal of Applied Physics, 2003, 42, 2408-2411.	0.8	13
87	Selective Growth of Cu Nanowires on Si(111) Substrates. Japanese Journal of Applied Physics, 2003, 42, L1210-L1212.	0.8	17
88	Leakage Current Distribution of Cu-Contaminated Thin SiO ₂ . Japanese Journal of Applied Physics, 2003, 42, L160-L162.	0.8	11
89	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
90	Origin of type-C defects on the Si(100) (2 \times 1) surface. Physical Review B, 2002, 65, .	1.1	38

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91	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
92	Interface states of SiO ₂ /Si(111) observed by an atomic force microscope. Surface Science, 1999, 443, L1055-L1058.	0.8	8
93	Is the c(4 \times 4) reconstruction of Si(001) associated with the presence of carbon?. Applied Physics Letters, 1997, 71, 3266-3268.	1.5	47
94	Which Surfactant Shall We Choose for the Heteroepitaxy of Ge/Si(001)? -Bi as a Surfactant with Small Self-Incorporation-. Japanese Journal of Applied Physics, 1993, 32, L204-L206.	0.8	89
95	Effect of a surfactant on the growth of Si/Ge heterostructures. Thin Solid Films, 1992, 222, 112-115.	0.8	23
96	STM images of anisotropic atomic steps on si(111)-7 \times 7 surfaces. Journal of Crystal Growth, 1990, 99, 1329-1332.	0.7	15
97	Microscopic Analyses of Semiconductor Surfaces by STM. , 1990, , 1491-1498.		0
98	Ge/Si strained-layer superlattices fabricated by phase-locked epitaxy. Journal of Crystal Growth, 1989, 95, 444-446.	0.7	29
99	Rheed Observation of Lattice Relaxation During Ge/Si(001) Heteroepitaxy. Materials Research Society Symposia Proceedings, 1989, 148, 323.	0.1	20
100	Imaging of hydrogen-induced Si(111) surface with the scanning tunnelling microscope. Journal of Microscopy, 1988, 152, 743-750.	0.8	8
101	Density-of-states investigation of C8K and occurrence of the interlayer band. Physical Review B, 1986, 34, 2434-2438.	1.1	31