

# Kazuyuki Sakamoto

## List of Publications by Year in descending order

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115  
papers

2,695  
citations

186265  
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214800  
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116  
all docs

116  
docs citations

116  
times ranked

2424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-polarized electrons in atomic layer materials formed on solid surfaces. Progress in Surface Science, 2022, 97, 100665.	8.3	1
2	Tuning the Fermi surface of In/Si(111)-( $\sqrt{3}\sqrt{3}$ )Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 127 Td by CuPc adsorption. Surface Science, 2021, 705, 121777.	1.9	8
3	Atomic-layer Rashba-type superconductor protected by dynamic spin-momentum locking. Nature Communications, 2021, 12, 1462.	12.8	20
4	Surface band characters of the Weyl semimetal candidate material $\text{MoTe}_2$ revealed by one-step angle-resolved photoemission theory. Physical Review B, 2021, 103, .	3.2	15
5	Spatial Control of Charge Doping in n-Type Topological Insulators. Nano Letters, 2021, 21, 4415-4422.	9.1	9
6	Orbital Angular Momentum Induced Spin Polarization of 2D Metallic Bands. Physical Review Letters, 2020, 125, 176401.	7.8	16
7	The actual electronic band structure of a rubrene single crystal. Scientific Reports, 2019, 9, 9645.	3.3	18
8	Surface states and Rashba-type spin polarization in antiferromagnetic $\text{MnBi}$ ( $0001$ ). Physical Review B, 2019, 100, .	3.2	15
9	Controlled Modification of Superconductivity in Epitaxial Atomic Layer Organic Molecule Heterostructures. Nano Letters, 2017, 17, 2287-2293.	9.1	34
10	Valley spin polarization of Tl/Si(111). Physical Review Materials, 2017, 1, .	2.4	7
11	Adsorption-enhanced spin-orbit coupling of buckled honeycomb silicon. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 141-145.	2.7	0
12	Nonvortical Rashba Spin Structure on a Surface with $C_{3h}$ Symmetry. Physical Review Letters, 2016, 117, 016803.	7.8	15
13	Self-assembled honeycomb lattice in the monolayer of cyclic thiazyl diradical BDTDA ( $4,4'$ -bis(1,2,3,5-dithiadiazolyl)) on Cu(111) with a zero-bias tunneling spectra anomaly. Scientific Reports, 2015, 5, 18359.	3.3	4
14	FePc/Metal Interfaces Driven by the Electronic States of Different Low-Dimensional Ag Structures Formed on Si(111). Journal of Physical Chemistry C, 2015, 119, 20065-20073.	3.1	5
15	Symmetry induced peculiar Rashba effect on thallium adsorbed Si(1 1 1) surfaces. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 88-91.	1.7	6
16	Connection of a Topological Surface State with the Bulk Continuum in $\text{Sb}_2\text{Te}_3$ ( $0001$ ) ( $0001$ ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 127 Td (stretchy="false")	1.7	6
17	The Rashba-split surface state of $\text{Sb}_2\text{Te}_3$ ( $0001$ ) and its interaction with bulk states. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 110-114.	1.7	6
18	Spin texture with a twist in momentum space for Tl/Si(111). Physical Review B, 2015, 91, .	3.2	21

#	ARTICLE	IF	CITATIONS
19	Transforming a surface state of a topological insulator by a Bi capping layer. Physical Review B, 2014, 90, .	3.2	9
20	Thin line of a Rashba-type spin texture: Unoccupied surface resonance of Tl/Si(111) along $\Gamma$ - $\bar{A}$ direction. Physical Review B, 2014, 90, .	3.2	23
21	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. Progress in Solid State Chemistry, 2014, 42, 1-21.	7.2	66
22	Spin-Polarized Angle-Resolved Photoelectron Spectroscopy of the So-Predicted Kondo Topological Insulator $\text{SmB}_6$ . Journal of the Physical Society of Japan, 2014, 83, 014705.	1.6	28
23	Valley spin polarization by using the extraordinary Rashba effect on silicon. Nature Communications, 2013, 4, 2073.	12.8	71
24	Highly Ordered Cobalt-Phthalocyanine Chains on Fractional Atomic Steps: One-Dimensionality and Electron Hybridization. ACS Nano, 2013, 7, 1317-1323.	14.6	19
25	Rotating Spin and Giant Splitting: Unoccupied Surface Electronic Structure of Tl/Si(111) Surface. Physical Review B, 2013, 87, 041401.	7.8	59
26	Single Dirac cone on the Cs-covered topological insulator surface Sb <sub>2</sub> Te <sub>3</sub> . Physical Review B, 2012, 86, .	3.2	30
27	Atomic and valence-band electronic structures of the epitaxial SiON layer on the SiC(0001): X-ray diffraction and angle-resolved photoemission spectroscopy investigations. Surface Science, 2011, 605, 328-332.	1.9	8
28	Spin orientation and sign of the Rashba splitting in Bi/Cu(111). Physical Review B, 2011, 84, .	3.2	53
29	Re-investigation of the Bi-induced Si(111)-( $\bar{1}$ ) surfaces by low-energy electron diffraction. Surface Science, 2010, 604, 1044-1048.	1.9	37
30	Thickness-dependent electronic properties and molecular orientation of diradical metal complex thin films grown on SiO <sub>2</sub> . Chemical Physics Letters, 2010, 487, 67-70.	2.6	6
31	Electronic structure of the thallium-induced $\sqrt{2} \times \sqrt{2}$ reconstruction on Si(001). Physical Review B, 2010, 81, .	3.2	5
32	Intermolecular band dispersion in a self-assembled phthalocyanine derivative film: The case of tetrakis(thiadiazole)porphyrazine. Physical Review B, 2010, 82, .	3.2	7
33	Atomic and electronic structures of the ordered $\sqrt{2} \times \sqrt{2}$ reconstruction on the Si(111):Sn surface. Physical Review B, 2010, 81, .	3.2	16
34	Band gap states of copper phthalocyanine thin films induced by nitrogen exposure. Applied Physics Letters, 2010, 96, .	3.3	82
35	Electronic structure of the $\sqrt{2} \times \sqrt{2}$ reconstruction on Si(111) surface. Physical Review B, 2009, 79, .	3.2	16
36	Electronic structure of dysprosium silicide films grown on a Si(111) surface. Applied Surface Science, 2009, 256, 1156-1159.	6.1	3

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37	Abrupt Rotation of the Rashba Spin to the Direction Perpendicular to the Surface. Physical Review Letters, 2009, 102, 096805.	7.8	137
38	Peculiar Rashba Splitting Originating from the Two-Dimensional Symmetry of the Surface. Physical Review Letters, 2009, 103, 156801.	7.8	124
39	Energy band and electron-vibration coupling in organic thin films: photoelectron spectroscopy as a powerful tool for studying the charge transport. Applied Physics A: Materials Science and Processing, 2008, 92, 495-504.	2.3	50
40	Observation of a temperature-dependent transition of a copper-phthalocyanine thin film adsorbed on HOPG. Chemical Physics Letters, 2008, 451, 43-47.	2.6	24
41	Fullerene on Nitrogen-Adsorbed Cu(001) Nanopatterned Surfaces: From Preferential Nucleation to Layer-by-Layer Growth. Journal of Physical Chemistry C, 2008, 112, 10187-10192.	3.1	15
42	Origin of a surface state above the Fermi level on Ge(001) and Si(001) studied by temperature-dependent ARPES and LEED. Physical Review B, 2008, 77, .	3.2	14
43	High-temperature annealing and surface photovoltage shifts on $Si(111)2 \times 8$ surface. Physical Review B, 2008, 78, .	3.2	28
44	Electronic Structures of the Highest Occupied Molecular Orbital Bands of a Pentacene Ultrathin Film. Physical Review Letters, 2007, 98, 247601.	7.8	167
45	Lithium-induced dimer reconstructions on Si(001) studied by photoelectron spectroscopy and band-structure calculations. Physical Review B, 2007, 75, .	3.2	1
46	Surface Electronic Structures of Polythiophene Derivatives. Macromolecular Symposia, 2007, 249-250, 493-497.	0.7	1
47	Photoemission study of a thallium induced surface. Surface Science, 2007, 601, 5258-5261.	1.9	9
48	Influence of intramolecular vibrations in charge redistribution at the pentacene-graphite interface. Surface Science, 2007, 601, 3765-3768.	1.9	11
49	Surface electronic structure of the $(3 \times 2)$ reconstruction induced by Yb on a Si(111) surface. Applied Surface Science, 2006, 252, 5292-5295.	6.1	3
50	The Control of Electronic States Spreading Outside the Conjugated Polymer Surface. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
51	Phase transition of the $Ag^*Si(111)2 \times 3$ surface studied by photoelectron diffraction. Physical Review B, 2006, 73, .	3.2	12
52	Core-level photoemission study of thallium adsorbed on a $Si(111)7 \times 7$ surface: Valence state of thallium and the charge state of surface Si atoms. Physical Review B, 2006, 74, .	3.2	25
53	The self-calibration of a retarding-type Mott spin polarimeter with a large collection angle. Review of Scientific Instruments, 2006, 77, 013101.	1.3	33
54	Surface electronic structures of the Eu- and Ca-induced so-called $Si(111)5 \times 1$ reconstructions. Physical Review B, 2006, 74, .	3.2	10

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55	Structural investigation of the Ca/Si(111)-(3*2) surface using photoelectron diffraction. E-Journal of Surface Science and Nanotechnology, 2006, 4, 166-169.	0.4	0
56	Adsorption and reaction processes of physisorbed molecular oxygen on Si(111)-(7*7). Physical Review B, 2005, 72, .	3.2	14
57	Surface electronic structures of the Eu-induced Si(111)-(3*2) and -(2*1) reconstructions. Physical Review B, 2005, 72, .	3.2	21
58	Structural investigation of the quasi-one-dimensional reconstructions induced by Eu adsorption on a Si(111) surface. Physical Review B, 2005, 72, .	3.2	19
59	Electronic structure of the Ca/Si(111)-(3*2) surface. Physical Review B, 2004, 69, .	3.2	20
60	Photoemission study of metastable oxygen adsorbed on a Si(111)-(7*7) surface. Physical Review B, 2004, 70, .	3.2	16
61	Growth of an In-Sn film on an InSb(111)-(2*2) surface. Physical Review B, 2004, 70, .	3.2	9
62	Surface electronic structure of K- and Cs-induced 2*1 phases on Ag-Si(111)-(3*3). Physical Review B, 2004, 70, .	3.2	20
63	Initial oxidation process of an Si(111)-(7*7) surface studied by photoelectron spectroscopy. Thin Solid Films, 2004, 464-465, 10-13.	1.8	2
64	Atomic and electronic structures of metal induced Si(111)-(3*1) reconstructed surfaces. E-Journal of Surface Science and Nanotechnology, 2004, 2, 210-221.	0.4	7
65	High-resolution core-level study of the Ca/Si(111)-(2*1) surface. Thin Solid Films, 2003, 428, 115-118.	1.8	4
66	Surface electronic structures of Au-induced reconstructions on the Ag/Ge(111)-(3*3) surface. Surface Science, 2003, 532-535, 934-939.	1.9	6
67	High-resolution Si 2p core-level and low-energy electron diffraction studies of the Ca/Si(111)-(3*2) surface. Surface Science, 2003, 532-535, 628-632.	1.9	6
68	Observation of two metastable oxygen species adsorbed on a Si(111)-(7*7) surface: Reinterpretation of the initial oxidation process. Physical Review B, 2003, 68, .	3.2	30
69	Band structure of the Ca/Si(111)-(2*1) surface. Physical Review B, 2003, 68, .	3.2	23
70	Structural Investigation of the So-Called Ca/Si(111)-(5*1) Surface. Japanese Journal of Applied Physics, 2003, 42, 4663-4666.	1.5	7
71	Structural investigation of Ca/Si(111) surfaces. Physical Review B, 2002, 66, .	3.2	46
72	Bias-dependent scanning tunneling microscopy study of the oxygen-adsorbed Si(111)-(7*7) surface: Observation of metastable molecular oxygen. Physical Review B, 2002, 65, .	3.2	19

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73	Determination of the bonding configuration of the metastable molecular oxygen adsorbed on a Si(111)-(7 $\times$ 7) surface. Physical Review B, 2002, 65, .	3.2	12
74	HIGH-RESOLUTION Si <sub>2p</sub> CORE-LEVEL STUDY OF THE K/Si(111)-(3 $\times$ 1) SURFACE. Surface Review and Letters, 2002, 09, 1235-1239.	1.1	9
75	Electronic structure of K-doped C <sub>60</sub> monolayer films adsorbed on Si(001)-(2 $\times$ 1) and Si(111)-(7 $\times$ 7) surfaces. Surface Science, 2002, 499, 63-72.	1.9	6
76	Semiconductor $\hat{c}$ metal $\hat{c}$ semiconductor transition: valence band photoemission study of Ag/Si(1 1 1) surfaces. Applied Surface Science, 2002, 190, 103-107.	6.1	2
77	Vibrational modes of the K/Si(-)(3 $\times$ 1) surface studied by high-resolution electron energy loss spectroscopy. Surface Science, 2002, 514, 332-336.	1.9	1
78	Unoccupied molecular orbitals of C <sub>60</sub> molecules adsorbed on Si(001)-(2 $\times$ 1) and Si(111)-(7 $\times$ 7) surfaces studied by NEXAFS. Surface Science, 2002, 514, 337-342.	1.9	15
79	Thermal-dependent unoccupied electronic structure of a C <sub>60</sub> monolayer film adsorbed on a Si(111) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	13
80	Interaction of metastable molecular oxygen with the dangling bonds of a Si(111)-(7 $\times$ 7) surface. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 489-494.	1.7	1
81	HREELS study of C <sub>70</sub> molecules adsorbed on a Si(1 1 1)-(7 $\times$ 7) surface. Applied Surface Science, 2001, 169-170, 147-152.	6.1	1
82	Thermal effect in unoccupied molecular orbitals of C <sub>60</sub> molecules adsorbed on a Si(001)-(2 $\times$ 1) surface studied by NEXAFS. Journal of Synchrotron Radiation, 2001, 8, 505-507.	2.4	4
83	Identification of the basic structure of the Ag/Si(111)-(6 $\times$ 1) surface: Observation of a low-temperature(12 $\times$ 2) phase. Physical Review B, 2001, 65, .	3.2	38
84	Comprehensive study of the metal/semiconductor character of adatom-induced Ag/Si(111) reconstructions. Physical Review B, 2001, 64, .	3.2	71
85	The Growth Mechanism of SiC Film on a Si(111)-(7 $\times$ 7) Surface by C <sub>60</sub> Precursor Studied by Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2000, 39, 4536-4539.	1.5	1
86	Angle-resolved high-resolution electron-energy-loss study of In-adsorbed Si(111) $\hat{c}$ (4 $\times$ 1) and -(8 $\times$ 2) surfaces. Physical Review B, 2000, 62, 9923-9926.	3.2	53
87	Temperature dependence of the electronic structure of C <sub>60</sub> films adsorbed on Si(001) $\hat{c}$ (2 $\times$ 1) and Si(111) $\hat{c}$ (7 $\times$ 7) surfaces. Physical Review B, 1999, 60, 2579-2591.	3.2	48
88	Adsorption process of metastable molecular oxygen on a Si(111)-(7 $\times$ 7) surface. Physical Review B, 1999, 60, R8465-R8468.	3.2	31
89	Thermal induced transition in the bonding nature of C <sub>60</sub> molecules adsorbed on a Si(111) $\hat{c}$ (7 $\times$ 7) surface. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 413-418.	1.7	4
90	Adsorption and thermal reaction of C <sub>70</sub> on Si(111)-(7 $\times$ 7) and Si(100)-(2 $\times$ 1) surfaces: comparison with C <sub>60</sub> . Applied Surface Science, 1999, 144-145, 653-656.	6.1	5

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91	Electronic structures of C60 adsorbed on Si(111)-(7 $\times$ 7) and Si(001)-(2 $\times$ 1) surfaces. Surface Science, 1999, 433-435, 642-646.	1.9	15
92	Bonding nature of C60 adsorbed on Si(111)7 $\times$ 7 and Si(100)2 $\times$ 1 surfaces studied by HREELS and PES. Surface Science, 1999, 427-428, 85-90.	1.9	16
93	Interaction of C60 with Si(111)7 $\times$ 7 and Si(100)2 $\times$ 1 surfaces studied by STM, PES and HREELS: annealing effect. Surface Science, 1999, 438, 242-247.	1.9	24
94	Thermal-dependent electronic structure at the interface of C60-adsorbed Si(111)-(7 $\times$ 7) surface. Surface Science, 1999, 438, 248-253.	1.9	4
95	Change in Electronic Structure of C60 Molecules Adsorbed on a Si(001)-(2 $\times$ 1) Surface by Thermal Effect. Japanese Journal of Applied Physics, 1999, 38, 328.	1.5	0
96	Electronic State of the Carbon 60 Adsorbed Silicon Surfaces.. Shinku/Journal of the Vacuum Society of Japan, 1999, 42, 143-146.	0.2	0
97	SiC islands grown on Si(111)-(7 $\times$ 7) and Si(001)-(2 $\times$ 1) surfaces by C60 precursor. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 897-903.	1.7	14
98	Interaction of C60 with silicon dangling bonds on the Si(111)-(7 $\times$ 7) surface. Surface Science, 1998, 402-404, 523-528.	1.9	12
99	Bonding state of the C60 molecule adsorbed on a Si(111)7 $\times$ 7 surface. Physical Review B, 1998, 58, 13951-13956.	3.2	55
100	SiC film formation and growth by the thermal reaction of a C60 film adsorbed on a Si(111)-(7 $\times$ 7) surface: Bonding nature of C60 molecules and SiC-film surface phonons. Physical Review B, 1998, 57, 9003-9014.	3.2	28
101	Vibrational properties and charge transfer of C60 adsorbed on Si(111)-(7 $\times$ 7) and Si(100)-(2 $\times$ 1) surfaces. Physical Review B, 1997, 56, 7439-7445.	3.2	61
102	Angle-resolved photoelectron spectroscopy of the Si(111)3 $\times$ 1-Na surface. Physical Review B, 1997, 55, 6762-6765.	3.2	47
103	The growth mechanism of ("Cu"O) strings on a Ag(110) surface studied by scanning tunneling microscopy, x-ray photoelectron spectroscopy, and high resolution electron energy loss spectroscopy. Journal of Chemical Physics, 1997, 107, 10185-10190.	3.0	8
104	SiC film formation from C60 monolayer on Si(111)-(7 $\times$ 7) and Si(001)-(2 $\times$ 1) surfaces studied by HREELS-STM. Applied Surface Science, 1997, 121-122, 200-203.	6.1	9
105	Molecular precursor of oxygen on Si(111)7 $\times$ 7 surface. Surface Science, 1996, 357-358, 514-517.	1.9	23
106	Electron- and photon-stimulated desorption of the surface. Surface Science, 1996, 359, 147-154.	1.9	3
107	Energy barrier for ion desorption due to discrete surface dipoles. Surface Science, 1996, 365, 489-494.	1.9	4
108	Initial stage of C60 film growth and reaction on Si(111)7 $\times$ 7 and graphite surfaces studied by HREELS-STM. Thin Solid Films, 1996, 281-282, 602-605.	1.8	16

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109	Photon-stimulated desorption study of the NO/Si(111) surface. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 125-128.	1.7	1
110	Local structure and chemical reaction of C60 films on Si(111)7 Å— 7 studied by HREELS-STM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 217-218, 34-37.	5.6	10
111	Photon-Stimulated Desorption Mechanism of Cl-Ions from Cl/Si(111) Surface. Japanese Journal of Applied Physics, 1994, 33, 2248-2251.	1.5	9
112	Photoemission study of the Si(111)3Å—1-K surface. Physical Review B, 1994, 50, 1725-1732.	3.2	87
113	Adsorption and desorption processes of Cl on a Si (111) 7 Å— 7 surface. Applied Surface Science, 1994, 79-80, 95-99.	6.1	14
114	Electron-stimulated desorption (ESD) of the O2â§Si(111) surface. Surface Science, 1994, 306, 93-98.	1.9	41
115	Trajectory generation for obstacle avoidance of uncalibrated stereo visual servoing without 3D reconstruction. , 0, , .		40