Kazuyuki Sakamoto

List of Publications by Year
in descending order

115	2,695	186265	214800
papers	citations	28 h-index	47 g-index

116	116	116	2424
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic Structures of the Highest Occupied Molecular Orbital Bands of a Pentacene Ultrathin Film. Physical Review Letters, 2007, 98, 247601.	7.8	167
2	Abrupt Rotation of the Rashba Spin to the Direction Perpendicular to the Surface. Physical Review Letters, 2009, 102, 096805.	7.8	137
3	Surface states and Rashba-type spin polarization in antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></ (0001). Physical Review B, 2019, 100, .	3.2	132
4	Peculiar Rashba Splitting Originating from the Two-Dimensional Symmetry of the Surface. Physical Review Letters, 2009, 103, 156801.	7.8	124
5	Photoemission study of the Si(111)3Ã—1-K surface. Physical Review B, 1994, 50, 1725-1732.	3.2	87
6	Band gap states of copper phthalocyanine thin films induced by nitrogen exposure. Applied Physics Letters, 2010, 96, .	3.3	82
7	Comprehensive study of the metal/semiconductor character of adatom-induced Ag/Si(111) reconstructions. Physical Review B, 2001, 64, .	3.2	71
8	Valley spin polarization by using the extraordinary Rashba effect on silicon. Nature Communications, 2013, 4, 2073.	12.8	71
9	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
10	Vibrational properties and charge transfer ofC60adsorbed on Si(111)-(7Ã—7)and Si(100)-(2Ã—1)surfaces. Physical Review B, 1997, 56, 7439-7445.	3.2	61
11	Rotating Spin and Giant Splitting: Unoccupied Surface Electronic Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Tl</mml:mi><mml:mo>/</mml:mo><mml:mi>Si</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 327 Td (stretchy="fa	7.8	59
12	Bonding state of theC60molecule adsorbed on aSi(111)â˜'(7Ã—7)surface. Physical Review B, 1998, 58, 13951-13956.	3.2	55
13	Angle-resolved high-resolution electron-energy-loss study of In-adsorbedSi(111)â˜'(4Ã—1)and -(8Ã—2)surfaces. Physical Review B, 2000, 62, 9923-9926.	3.2	53
14	Spin orientation and sign of the Rashba splitting in Bi/Cu(111). Physical Review B, 2011, 84, .	3.2	53
15	Energy band and electron-vibration coupling in organic thin films: photoelectron spectroscopy as a powerful tool forÂstudying theÂcharge transport. Applied Physics A: Materials Science and Processing, 2008, 92, 495-504.	2.3	50
16	Temperature dependence of the electronic structure ofC60films adsorbed onSi(001)â˜'(2Ã—1)andSi(111)â˜'(7Ã—7)surfaces. Physical Review B, 1999, 60, 2579-2591.	3.2	48
17	Angle-resolved photoelectron spectroscopy of the Si(111)3Ã—1-Na surface. Physical Review B, 1997, 55, 6762-6765.	3.2	47
18	Structural investigation of Ca/Si(111) surfaces. Physical Review B, 2002, 66, .	3.2	46

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19	Electronic structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Si</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>1104</mml:mn></mml:mrow></mml:mrow></mml:mrow></mml:math>-(1×1)surface: High-resolution ARPES and STM investigation. Physical Review B, 2009, 79, .	3.2	46
20	Electron-stimulated desorption (ESD) of the O2â§¸Si(111) surface. Surface Science, 1994, 306, 93-98.	1.9	41
21	Trajectory generation for obstacle avoidance of uncalibrated stereo visual servoing without 3D reconstruction. , 0, , .		40
22	Identification of the basic structure of the Ag/Si(111)-(6Ã—1)surface: Observation of a low-temperaturec(12Ã—2)phase. Physical Review B, 2001, 65, .	3.2	38
23	Re-investigation of the Bi-induced Si(111)-() surfaces by low-energy electron diffraction. Surface Science, 2010, 604, 1044-1048.	1.9	37
24	Connection of a Topological Surface State with the Bulk Continuum in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sb</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>0001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 527 Td (stretchy="false">)</m	7.8	35
25	Controlled Modification of Superconductivity in Epitaxial Atomic Layerâ€“Organic Molecule Heterostructures. Nano Letters, 2017, 17, 2287-2293.	9.1	34
26	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
27	Adsorption process of metastable molecular oxygen on a Si(111)-(7Ã—7)surface. Physical Review B, 1999, 60, R8465-R8468.	3.2	31
28	Observation of two metastable oxygen species adsorbed on aSi(111)â"(7Ã—7)surface: Reinterpretation of the initial oxidation process. Physical Review B, 2003, 68, .	3.2	30
29	Single Dirac cone on the Cs-covered topological insulator surface Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(0001). Physical Review B, 2012, 86, .	3.2	30
30	SiC film formation and growth by the thermal reaction of aC60film adsorbed on a Si(111)-(7Ã—7) surface: Bonding nature ofC60molecules and SiC-film surface phonons. Physical Review B, 1998, 57, 9003-9014.	3.2	28
31	Spin-Polarized Angle-Resolved Photoelectron Spectroscopy of the So-Predicted Kondo Topological Insulator SmB₆. Journal of the Physical Society of Japan, 2014, 83, 014705.	1.6	28
32	Core-level photoemission study of thallium adsorbed on aSi(111)â"(7Ã—7)surface: Valence state of thallium and the charge state of surface Si atoms. Physical Review B, 2006, 74, .	3.2	25
33	Interaction of C60 with Si(111)7Ã—7 and Si(100)2Ã—1 surfaces studied by STM, PES and HREELS: annealing effect. Surface Science, 1999, 438, 242-247.	1.9	24
34	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
35	Molecular precursor of oxygen on Si(111)7 Ã— 7 surface. Surface Science, 1996, 357-358, 514-517.	1.9	23
36	Band structure of the Ca/Si(111)-(2Ã—1)surface. Physical Review B, 2003, 68, .	3.2	23

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37	High-temperature annealing and surface photovoltage shifts on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Si</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>111</mml:mn></mml:mrow></mml:mrow></mml:mrow></mml:math>. Physical Review B, 2008, 78, .	3.2	23
38	Thin line of a Rashba-type spin texture: Unoccupied surface resonance of Tl/Si(111) along<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mover accent="true"><mml:mi>Î“</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mover accent="true"><mml:mi>M</mml:mi><mml:mo>Â¯</mml:mo></mml:mover></mml:mrow></mml:math>. Physical Review B, 2014, 90, .	3.2	23
39	Surface electronic structures of the Eu-induced Si(111)-(3Ã—2)and -(2Ã—1)reconstructions. Physical Review B, 2005, 72, .	3.2	21
40	Spin texture with a twist in momentum space for Tl/Si(111). Physical Review B, 2015, 91, .	3.2	21
41	Electronic structure of the Ca/Si(111)-(3Ã—2)surface. Physical Review B, 2004, 69, .	3.2	20
42	Surface electronic structure ofK- andCs-induced21Ã—21phases onAgâ•Si(111)3Ã—3. Physical Review B, 2004, 70, .	3.2	20
43	Atomic-layer Rashba-type superconductor protected by dynamic spin-momentum locking. Nature Communications, 2021, 12, 1462.	12.8	20
44	Bias-dependent scanning tunneling microscopy study of the oxygen-adsorbed Si(111)-(7Ã—7) surface: Observation of metastable molecular oxygen. Physical Review B, 2002, 65, .	3.2	19
45	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
46	Highly Ordered Cobaltâ€“Phthalocyanine Chains on Fractional Atomic Steps: One-Dimensionality and Electron Hybridization. ACS Nano, 2013, 7, 1317-1323.	14.6	19
47	The actual electronic band structure of a rubrene single crystal. Scientific Reports, 2019, 9, 9645.	3.3	18
48	Initial stage of C60 film growth and reaction on Si(111)7Ã—7 and graphite surfaces studied by HREELS-STM. Thin Solid Films, 1996, 281-282, 602-605.	1.8	16
49	Bonding nature of C60 adsorbed on Si(111)7Ã—7 and Si(100)2Ã—1 surfaces studied by HREELS and PES. Surface Science, 1999, 427-428, 85-90.	1.9	16
50	Photoemission study of metastable oxygen adsorbed on aSi(111)â^'(7Ã—7)surface. Physical Review B, 2004, 70, .	3.2	16
51	Atomic and electronic structures of the ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt><mml:mo>Ã—</mml:mo><mml:m molten<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>phase on the Si(111):Sn surface. Physical Review B, 2010, 81, .	3.2	16
52	Orbital Angular Momentum Induced Spin Polarization of 2D Metallic Bands. Physical Review Letters, 2020, 125, 176401.	7.8	16
53	Electronic structures of C60 adsorbed on Si(111)-(7Ã—7) and Si(001)-(2Ã—1) surfaces. Surface Science, 1999, 433-435, 642-646.	1.9	15
54	Unoccupied molecular orbitals of C60 molecules adsorbed on Si(001)-(2Ã—1) and Si(111)-(7Ã—7) surfaces studied by NEXAFS. Surface Science, 2002, 514, 337-342.	1.9	15

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55	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
56	Nonvortical Rashba Spin Structure on a Surface withC1hSymmetry. Physical Review Letters, 2016, 117, 016803.	7.8	15
57	Adsorption and desorption processes of Cl on a Si (111) 7 Ã— 7 surface. Applied Surface Science, 1994, 79-80, 95-99.	6.1	14
58	SiC islands grown on Si(111)-(7 Ã— 7) and Si(001)-(2 Ã— 1) surfaces by C60 precursor. Journal of Electron Spectroscopy and Related Phenomena, 1998, 88-91, 897-903.	1.7	14
59	Adsorption and reaction processes of physisorbed molecular oxygen on Si(111)-(7Ã—7). Physical Review B, 2005, 72, .	3.2	14
60	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
61	Thermal-dependent unoccupied electronic structure of a C 60 monolayer film adsorbed on a Si(111) Tj ETQq1 1 0.784314 rgBT /Over	1.9	13
62	Interaction of C60 with silicon dangling bonds on the Si(111)-(7Ã—7) surface. Surface Science, 1998, 402-404, 523-528.	1.9	12
63	Determination of the bonding configuration of the metastable molecular oxygen adsorbed on a Si(111)-(7Ã—7) surface. Physical Review B, 2002, 65, .	3.2	12
64	Phase transition of theAgâˆ•Si(111)â^'(3Ã—3)surface studied by photoelectron diffraction. Physical Review B, 2006, 73, .	3.2	12
65	Influence of intramolecular vibrations in charge redistribution at the pentaceneâ€“graphite interface. Surface Science, 2007, 601, 3765-3768.	1.9	11
66	Local structure and chemical reaction of C60 films on Si(111)7 Ã— 7 studied by HREELS-STM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 217-218, 34-37.	5.6	10
67	Surface electronic structures of the Eu- and Ca-induced so-calledSi(111)â^'(5Ã—1)reconstructions. Physical Review B, 2006, 74, .	3.2	10
68	Photon-Stimulated Desorption Mechanism of Cl+Ions from Cl/Si(111) Surface. Japanese Journal of Applied Physics, 1994, 33, 2248-2251.	1.5	9
69	SiC film formation from C60 monolayer on Si(111)-(7 Ã— 7) and Si(001)-(2 Ã— 1) surfaces studied by HREELS-STM. Applied Surface Science, 1997, 121-122, 200-203.	6.1	9
70	HIGH-RESOLUTION Si2p CORE-LEVEL STUDY OF THE K/Si(111)-(3 Ã— 1) SURFACE. Surface Review and Letters, 2002, 09, 1235-1239.	1.1	9
71	Growth of anÎ±-Sn film on an InSb(111)Aâ^'(2Ã—2)surface. Physical Review B, 2004, 70, .	3.2	9
72	Photoemission study of a thallium induced surface. Surface Science, 2007, 601, 5258-5261.	1.9	9

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73	Transforming a surface state of a topological insulator by a Bi capping layer. Physical Review B, 2014, 90, .	3.2	9
74	Spatial Control of Charge Doping in n-Type Topological Insulators. Nano Letters, 2021, 21, 4415-4422.	9.1	9
75	The growth mechanism of (â€“Cuâ€“Oâ€“) 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
76	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
77	Tuning the Fermi surface of In/Si(111)-(<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /O by CuPc adsorption. Surface Science, 2021, 705, 121777.	1.9	8
78	Structural Investigation of the So-Called Ca/Si(111)-(5Ã—1) Surface. Japanese Journal of Applied Physics, 2003, 42, 4663-4666.	1.5	7
79	Intermolecular band dispersion in a self-assembled phthalocyanine derivative film: The case of tetrakis(thiadiazole)porhyrazine. Physical Review B, 2010, 82, .	3.2	7
80	Valley spin polarization of Tl/Si(111). Physical Review Materials, 2017, 1, .	2.4	7
81	Atomic and electronic structures of metal induced Si(111)-(3Ã—1) reconstructed surfaces. E-Journal of Surface Science and Nanotechnology, 2004, 2, 210-221.	0.4	7
82	Electronic structure of K-doped C60 monolayer films adsorbed on Si(001)-(2Ã—1) and Si(111)-(7Ã—7) surfaces. Surface Science, 2002, 499, 63-72.	1.9	6
83	Surface electronic structures of Au-induced reconstructions on the Ag/Ge()âˆš3Ã—âˆš3 surface. Surface Science, 2003, 532-535, 934-939.	1.9	6
84	High-resolution Si2p core-level and low-energy electron diffraction studies of the Ca/Si(111)-(3Ã—2) surface. Surface Science, 2003, 532-535, 628-632.	1.9	6
85	Thickness-dependent electronic properties and molecular orientation of diradical metal complex thin films grown on SiO2. Chemical Physics Letters, 2010, 487, 67-70.	2.6	6
86	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
87	The Rashba-split surface state of Sb2Te3(0 0 0 1) and its interaction with bulk states. Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 110-114.	1.7	6
88	Adsorption and thermal reaction of C70 on Si(111)-(7Ã—7) and Si(100)-(2Ã—1) surfaces: comparison with C60. Applied Surface Science, 1999, 144-145, 653-656.	6.1	5
89	Electronic structure of the thallium-induced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>reco on Si(001). Physical Review B, 2010, 81, .	3.2	5
90	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

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91	Surface band characters of the Weyl semimetal candidate material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mn>2</mml:mn> revealed by one-step angle-resolved photoemission theory. Physical Review B, 2021, 103, .	3.2	5
92	Energy barrier for ion desorption due to discrete surface dipoles. Surface Science, 1996, 365, 489-494.	1.9	4
93	Thermal induced transition in the bonding nature of C60 molecules adsorbed on a Si(111)â€“(7Ã—7) surface. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 413-418.	1.7	4
94	Thermal-dependent electronic structure at the interface of C60-adsorbed Si(111)-(7Ã—7) surface. Surface Science, 1999, 438, 248-253.	1.9	4
95	Thermal effect in unoccupied molecular orbitals of C60molecules adsorbed on a Si(001)-(2 Ã— 1) surface studied by NEXAFS. Journal of Synchrotron Radiation, 2001, 8, 505-507.	2.4	4
96	High-resolution core-level study of the Ca/Si(111)-(2Ã—1) surface. Thin Solid Films, 2003, 428, 115-118.	1.8	4
97	Self-assembled honeycomb lattice in the monolayer of cyclic thiazyl diradical BDTDA (=â€‰4,4â€²-bis(1,2,3,5-dithiadiazolyl)) on Cu(111) with a zero-bias tunneling spectra anomaly. Scientific Reports, 2015, 5, 18359.	3.3	4
98	Electron- and photon-stimulated desorption of the surface. Surface Science, 1996, 359, 147-154.	1.9	3
99	Surface electronic structure of the (3Ã—2) reconstruction induced by Yb on a Si(111) surface. Applied Surface Science, 2006, 252, 5292-5295.	6.1	3
100	Electronic structure of dysprosium silicide films grown on a Si(111) surface. Applied Surface Science, 2009, 256, 1156-1159.	6.1	3
101	Semiconductorâ€“metalâ€“semiconductor transition: valence band photoemission study of Ag/Si(1 1 1) surfaces. Applied Surface Science, 2002, 190, 103-107.	6.1	2
102	Initial oxidation process of an Si(111)-(7Ã—7) surface studied by photoelectron spectroscopy. Thin Solid Films, 2004, 464-465, 10-13.	1.8	2
103	Photon-stimulated desorption study of the NO/Si(111) surface. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 125-128.	1.7	1
104	The Growth Mechanism of SiC Film on a Si(111)-(7Ã—7) Surface by C60Precursor Studied by Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2000, 39, 4536-4539.	1.5	1
105	Interaction of metastable molecular oxygen with the dangling bonds of a Si(111)-(7Ã—7) surface. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 489-494.	1.7	1
106	HREELS study of C70 molecules adsorbed on a Si(1 1 1)-(7Ã—7) surface. Applied Surface Science, 2001, 169-170, 147-152.	6.1	1
107	Vibrational modes of the K/Si()-(3Ã—1) surface studied by high-resolution electron energy loss spectroscopy. Surface Science, 2002, 514, 332-336.	1.9	1
108	Lithium-induced dimer reconstructions on Si(001) studied by photoelectron spectroscopy and band-structure calculations. Physical Review B, 2007, 75, .	3.2	1

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109	Surface Electronic Structures of Polythiophene Derivatives. Macromolecular Symposia, 2007, 249-250, 493-497.	0.7	1
110	Spin-polarized electrons in atomic layer materials formed on solid surfaces. Progress in Surface Science, 2022, 97, 100665.	8.3	1
111	The Control of Electronic States Spreading Outside the Conjugated Polymer Surface. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
112	Adsorption-enhanced spinâ€“orbit coupling of buckled honeycomb silicon. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 141-145.	2.7	0
113	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
114	Change in Electronic Structure of C60Molecules Adsorbed on a Si(001)-(2Ã—1) Surface by Thermal Effect. Japanese Journal of Applied Physics, 1999, 38, 328.	1.5	0
115	Electronic State of the Carbon 60 Adsorbed Silicon Surfaces.. Shinku/Journal of the Vacuum Society of Japan, 1999, 42, 143-146.	0.2	0