

# Shuji Hasegawa

## List of Publications by Year in descending order

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266  
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10,216  
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all docs

268  
docs citations

268  
times ranked

6769  
citing authors



#	ARTICLE	IF	CITATIONS
19	Atomic and Electronic Structure of Ultrathin Bi(111) Films Grown on Transition. Physical Review Letters, 2012, 109, 227401.	7.8	124
20	Chemical Analysis of Surfaces by Total-Reflection-Angle X-Ray Spectroscopy in RHEED Experiments (RHEED-TRAXS). Japanese Journal of Applied Physics, 1985, 24, L387-L390.	1.5	121
21	Spectroscopic evidence of a topological quantum phase transition in ultrathin Physical Review B, 2010, 81, .	3.2	117
22	A study of adsorption and desorption processes of Ag on Si(111) surface by means of RHEED-TRAXS. Surface Science, 1987, 186, 138-162.	1.9	114
23	Si(111)-(111)-Ag surface at low temperatures: symmetry breaking and surface twin boundaries. Surface Science, 1999, 442, 65-73.	1.9	114
24	Two-Dimensional Superconductor with a Giant Rashba Effect: One-Atom-Layer Tl-Pb Compound on Si(111). Physical Review Letters, 2015, 115, 147003.	7.8	108
25	Structural phase transitions of Si(111)-(111)-3R30° Au: Phase transitions in domain-wall configurations. Physical Review B, 1998, 57, 10100-10109.	3.2	106
26	Quantum well states in ultrathin Bi films: Angle-resolved photoemission spectroscopy and first-principles calculations study. Physical Review B, 2007, 75, .	3.2	103
27	Four-Point Probe Resistance Measurements Using PtIr-Coated Carbon Nanotube Tips. Nano Letters, 2007, 7, 956-959.	9.1	98
28	Surface electrical conduction due to carrier doping into a surface-state band on Si(111)-3R30°-Ag. Physical Review B, 1997, 56, 6782-6787.	3.2	94
29	Surface structures and conductance at epitaxial growths of Ag and Au on the Si(111) surface. Physical Review Letters, 1992, 68, 1192-1195.	7.8	92
30	Large surface-state conductivity in ultrathin Bi films. Applied Physics Letters, 2007, 91, .	3.3	92
31	Emergence of charge density waves and a pseudogap in single-layer TiTe2. Nature Communications, 2017, 8, 516.	12.8	90
32	Electrical Resistance of a Monatomic Step on a Crystal Surface. Physical Review Letters, 2004, 93, 236801.	7.8	83
33	Structure determination of multilayer silicene grown on Ag(111) films by electron diffraction: Evidence for Ag segregation at the surface. Physical Review B, 2014, 89, .	3.2	83
34	ELECTRICAL CONDUCTION THROUGH SURFACE SUPERSTRUCTURES MEASURED BY MICROSCOPIC FOUR-POINT PROBES. Surface Review and Letters, 2003, 10, 963-980.	1.1	80
35	Electronic structure of the Si(111)-(111)-21°-(Ag+Au) surface. Physical Review B, 1998, 57, 9015-9023.	3.2	79
36	Electronic transport at semiconductor surfaces from point-contact transistor to micro-four-point probes. Surface Science, 2002, 500, 84-104.	1.9	78

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37	Structural phase transitions of Pb-adsorbed Si(111) surfaces at low temperatures. Physical Review B, 1999, 60, 13287-13290.	3.2	76
38	CORRELATION BETWEEN ATOMIC-SCALE STRUCTURES AND MACROSCOPIC ELECTRICAL PROPERTIES OF METAL-COVERED Si(111) SURFACES. International Journal of Modern Physics B, 1993, 07, 3817-3876.	2.0	74
39	Computer reconstruction from electron holograms and observation of fluxon dynamics. Physical Review Letters, 1991, 66, 457-460.	7.8	73
40	Microfour-point probe for studying electronic transport through surface states. Applied Physics Letters, 2000, 77, 3782-3784.	3.3	72
41	Strong lateral growth and crystallization via two-dimensional allotropic transformation of semi-metal Bi film. Surface Science, 2005, 590, 247-252.	1.9	66
42	In situ resistance measurements of epitaxial cobalt silicide nanowires on Si(110). Applied Physics Letters, 2005, 86, 233108.	3.3	64
43	Hydrogen-induced Surface Metallization of $\text{SrTiO}_3$ film. Physical Review Letters, 2005, 95, 086101.	7.8	64
44	Origin of the surface-state band-splitting in ultrathin Bi films: from a Rashba effect to a parity effect. New Journal of Physics, 2008, 10, 083038.	2.9	62
45	Electronic evidence of asymmetry in the Si(111)-3 $\sqrt{3}$ -Ag structure. Physical Review B, 2003, 68, .	3.2	59
46	A series of Ca-induced reconstructions on Si(111) surface. Surface Science, 2001, 493, 148-156.	1.9	58
47	Electron standing waves on the Si(111)-3 $\sqrt{3}$ -Ag surface. Physical Review B, 1999, 59, 2035-2039.	3.2	57
48	Spin Polarization of Quantum Well States in Ag Films Induced by the Rashba Effect at the Surface. Physical Review Letters, 2008, 101, 107604.	7.8	57
49	Topological metal at the surface of an ultrathin Bi film. Physical Review B, 2010, 81, .	3.2	57
50	Metallic Transport in a Monatomic Layer of In on a Silicon Surface. Physical Review Letters, 2011, 106, 116802.	7.8	56
51	Surface-State Bands on Silicon $\sqrt{3}\times\sqrt{3}$ -Ag Surface Superstructure. Japanese Journal of Applied Physics, 2000, 39, 3815-3822.	1.5	55
52	Growth and electron quantization of metastable silver films on Si(001). Physical Review B, 2001, 63, .	3.2	54
53	Direct detection of grain boundary scattering in damascene Cu wires by nanoscale four-point probe resistance measurements. Applied Physics Letters, 2009, 95, 052110.	3.3	54
54	Evolution of Fermi surface by electron filling into a free-electronlike surface state. Physical Review B, 2005, 71, .	3.2	53

#	ARTICLE	IF	CITATIONS
55	Structures and electrical conductance of the Si(111)-3Å-3-Ag surface with additional Ag adsorption at low temperatures. <i>Physical Review B</i> , 1997, 55, 1310-1313.	3.2	51
56	Morphology of ultrathin manganese silicide on Si(111). <i>Surface Science</i> , 1999, 419, 134-143.	1.9	51
57	The effective mass of a free-electron-like surface state of the Si(111)-Ag surface investigated by photoemission and scanning tunneling spectroscopies. <i>Surface Science</i> , 2004, 563, 191-198.	1.9	50
58	Two-dimensional adatom gas phase on the Si(111)-3Å-3-Ag surface directly observed by scanning tunneling microscopy. <i>Physical Review B</i> , 1999, 60, 16083-16087.	3.2	49
59	Phase transition and stability of Si(111)-2'-In surface phase at low temperatures. <i>Surface Science</i> , 2001, 488, 15-22.	1.9	49
60	Electronic structure of Ag-induced 3Å-3 and 21Å-21 superstructures on the Si(111) surface studied by angle-resolved photoemission spectroscopy and scanning tunneling microscopy. <i>Physical Review B</i> , 2001, 64, .	3.2	49
61	Direct measurement of surface-state conductance by microscopic four-point probe method. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 8379-8392.	1.8	49
62	STM observations of Ag adsorption on the Si(111) surface at low temperatures. <i>Surface Science</i> , 1998, 408, 146-159.	1.9	48
63	Transport at surface nanostructures measured by four-tip STM. <i>Current Applied Physics</i> , 2002, 2, 465-471.	2.4	48
64	Variable-Temperature Micro-Four-Point Probe Method for Surface Electrical Conductivity Measurements in Ultrahigh Vacuum. <i>E-Journal of Surface Science and Nanotechnology</i> , 2003, 1, 50-56.	0.4	48
65	A reactive and sensitive diffusion sampler for the determination of aldehydes and ketones in ambient air. <i>Atmospheric Environment</i> , 1999, 33, 1999-2005.	4.1	47
66	Interaction between Adatom-Induced Localized States and a Quasi-Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 2006, 96, 036803.	7.8	47
67	Anomalous transport in an $n$ -type topological insulator ultrathin $n$ -layer $\text{Bi}_2\text{Se}_3$ . <i>Physical Review B</i> , 2010, 82, .	3.2	47
68	Epitaxial Growth of Single-Crystal Ultrathin Films of Bismuth on Si(111). <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4567-4570.	1.5	46
69	Adsorbate-Induced Pinning of a Charge-Density Wave in a Quasi-1D Metallic Chains: Na on the $\text{Si}(111)\sqrt{4\times 4}$ Surface. <i>Physical Review Letters</i> , 2002, 88, 196401.	7.8	45
70	STM observation of $\text{Si}(111)\sqrt{3\times 3}$ -Sn at low temperature. <i>Physical Review B</i> , 2002, 65, .	3.2	45
71	Electrical conduction via surface-state bands. <i>Surface Science</i> , 1997, 386, 322-327.	1.9	44
72	Surface-state bands on silicon as electron systems in reduced dimensions at atomic scales. <i>Journal of Physics Condensed Matter</i> , 2000, 12, R463-R495.	1.8	44

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73	Variable-temperature independently driven four-tip scanning tunneling microscope. Review of Scientific Instruments, 2007, 78, 053705.	1.3	43
74	Anisotropic band splitting in monolayer NbSe <sub>2</sub> : implications for superconductivity and charge density wave. Npj 2D Materials and Applications, 2018, 2, .	7.9	43
75	Dynamic electrochemical-etching technique for tungsten tips suitable for multi-tip scanning tunneling microscopes. E-Journal of Surface Science and Nanotechnology, 2007, 5, 94-98.	0.4	42
76	Electronic Transport in Multiwalled Carbon Nanotubes Contacted with Patterned Electrodes. Japanese Journal of Applied Physics, 2004, 43, L1081-L1084.	1.5	41
77	Role of Quantum and Surface-State Effects in the Bulk Fermi-Level Position of Ultrathin Bi Films. Physical Review Letters, 2015, 115, 106803.	7.8	41
78	Direct observation of soliton dynamics in charge-density waves on a quasi-one-dimensional metallic surface. Physical Review B, 2004, 70, .	3.2	40
79	Structure of C <sub>60</sub> layers on the Si(111)-3×3-Ag surface. Physical Review B, 1999, 60, 11131-11136.	3.2	39
80	Productivity of concentrated hyaluronic acid using a Maxblend <sup>®</sup> fermentor. Journal of Bioscience and Bioengineering, 1999, 88, 68-71.	2.2	39
81	Nonmetallic transport property of the Si(111)-7×7 surface. Physical Review B, 2003, 68, .	3.2	39
82	Surface relaxation of topological insulators: Influence on the electronic structure. Physical Review B, 2012, 85, .	3.2	39
83	Magnetic-flux quanta in superconducting thin films observed by electron holography and digital phase analysis. Physical Review B, 1991, 43, 7631-7650.	3.2	38
84	Electron-Phonon Interaction and Localization of Surface-State Carriers in a Metallic Monolayer. Physical Review Letters, 2007, 99, 146805.	7.8	38
85	Nonmetallic transport of a quasi-one-dimensional metallic Si(557)-Au surface. Physical Review B, 2004, 70, .	3.2	36
86	Surface Electrical Conductivity Measurement System with Micro-Four-Point Probes at Sub-Kelvin Temperature under High Magnetic Field in Ultrahigh Vacuum. E-Journal of Surface Science and Nanotechnology, 2012, 10, 400-405.	0.4	36
87	<i>In Situ</i> Magnetotransport Measurements in Ultrathin Bi Films: Evidence for Surface-Bulk Coherent Transport. Physical Review Letters, 2014, 113, 206802.	7.8	36
88	Two-dimensional adatom gas on the Si(111)-(√3×√3)-Ag surface detected through changes in electrical conduction. Physical Review B, 1996, 54, 14134-14138.	3.2	35
89	Quantum confinement observed in Ge nanodots on an oxidized Si surface. Physical Review B, 2006, 73, .	3.2	35
90	Sensitivity-enhanced electron holography and its application to magnetic recording investigations. Journal of Applied Physics, 1989, 65, 2000-2004.	2.5	34



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109	Resolution enhancement of scanning four-point-probe measurements on two-dimensional systems. Review of Scientific Instruments, 2003, 74, 3701-3708.	1.3	27
110	Phase transition temperatures determined by different experimental methods: $\langle \text{Si} \rangle$ with defects. Physical Review B, 2010, 81, .	3.2	27
111	Quantitative phase analysis in electron holographic interferometry. Applied Optics, 1987, 26, 377.	2.1	26
112	Structure of superconducting Ca-intercalated bilayer Graphene/SiC studied using total-reflection high-energy positron diffraction. Carbon, 2020, 157, 857-862.	10.3	25
113	Critical scattering at the order-disorder phase transition of Si(111)- $3\sqrt{3}\times 3\sqrt{3}$ -Au surface: A phase transition with particle exchange. Physical Review B, 1997, 55, 8129-8135.	3.2	23
114	Investigation of a Long-Term Sampling Period for Monitoring Volatile Organic Compounds in Ambient Air. Environmental Science & Technology, 2000, 34, 4656-4661.	10.0	23
115	Two-dimensional plasmon in a metallic monolayer on a semiconductor surface: Exchange-correlation effects. Physical Review B, 2002, 66, .	3.2	23
116	Alkali metal-induced Si(111) structure: The Na case. Surface Science, 2005, 590, 162-172.	1.9	23
117	Identification of two novel mutations of the carnitine/acylcarnitine translocase (CACT) gene in a patient with CACT deficiency. Journal of Human Genetics, 2000, 45, 52-55.	2.3	22
118	Quantum regulation of Ge nanodot state by controlling barrier of the interface layer. Applied Physics Letters, 2006, 88, 253102.	3.3	22
119	Evidence of asymmetric dimers down to 40 K at the clean Si(100) surface. Physical Review B, 2002, 66, .	3.2	21
120	Selective Growth of Straight Carbon Nanotubes by Low-Pressure Thermal Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2004, 43, 860-863.	1.5	21
121	High-yield synthesis of conductive carbon nanotube tips for multiprobe scanning tunneling microscope. Review of Scientific Instruments, 2007, 78, 013703.	1.3	21
122	Fermiology and transport in metallic monatomic layers on semiconductor surfaces. Journal of Physics Condensed Matter, 2007, 19, 355007.	1.8	20
123	Angiomyofibroblastoma-like tumor (cellular angiofibroma) in the male inguinal region. Radiation Medicine, 2007, 25, 173-177.	0.8	20
124	Two-dimensional plasmon in a surface-state band. Surface Science, 2001, 493, 680-686.	1.9	19
125	Atomic scale observation of a two-dimensional liquid-solid phase transition on the Si(111)- $3\sqrt{3}\times 3\sqrt{3}$ -Au surface. Physical Review B, 2005, 71, .	3.2	19
126	Fermi-Level Tuning of Topological Insulator Thin Films. Japanese Journal of Applied Physics, 2013, 52, 110112.	1.5	19



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127	Electrical Characterization of Metal-Coated Carbon Nanotube Tips. Japanese Journal of Applied Physics, 2005, 44, L1563-L1566.	1.5	18
128	Quasi-one-dimensional metals on semiconductor surfaces with defects. Journal of Physics Condensed Matter, 2010, 22, 084026.	1.8	18
129	Quantum-Well States in Ultra-Thin Metal Films on Semiconductor Surfaces. E-Journal of Surface Science and Nanotechnology, 2004, 2, 169-177.	0.4	18
130	Anisotropic conductivity of the Si(111)4 $\times$ 1-In surface: Transport mechanism determined by the temperature dependence. Physical Review B, 2012, 86, .	3.2	17
131	Surface electronic transport on silicon: donor- and acceptor-type adsorbates on Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ag substrate. Applied Surface Science, 2000, 162-163, 42-47.	6.1	16
132	Up-regulation of type II adenylyl cyclase mRNA in kindling model of epilepsy in rats. Neuroscience Letters, 2000, 282, 173-176.	2.1	16
133	Electronic transport of Au-adsorbed Si(111)1 $\times$ 1 metallic conduction and localization. Physical Review B, 2008, 78, .	3.2	16
134	Two-Dimensional Superconductivity of Ca-Intercalated Graphene on SiC: Vital Role of the Interface between Monolayer Graphene and the Substrate. ACS Nano, 2022, 16, 3582-3592.	14.6	16
135	Surface-state electrical conduction on the surface with noble-metal adatoms. Surface Science, 2000, 449, 125-134.	1.9	15
136	Exploiting Metal Coating of Carbon Nanotubes for Scanning Tunneling Microscopy Probes. Japanese Journal of Applied Physics, 2005, 44, 5336-5338.	1.5	15
137	Self-assembly of two-dimensional nanoclusters observed with STM: From surface molecules to surface superstructure. Physical Review B, 2006, 74, .	3.2	15
138	Influence of defects on transport in quasi-one-dimensional arrays of chains of metal atoms on silicon. Physical Review B, 2007, 76, .	3.2	15
139	Manipulating quantum-well states by surface alloying: Pb on ultrathin Ag films. Physical Review B, 2008, 78, .	3.2	15
140	Vortex-induced quantum metallicity in the mono-unit-layer superconductor $\text{NbS}_2$ . Physical Review B, 2019, 99, .	3.2	15
141	Step Edges as Reservoirs of Ag Adatom Gas on a Si(111) Surface. Japanese Journal of Applied Physics, 2003, 42, 4894-4897.	1.5	14
142	Direct measurement of the Hall effect in a free-electron-like surface state. Physical Review B, 2006, 73, .	3.2	14
143	Absence of charge-density waves on the dense Pb/Ge(111)- $\sqrt{3}\times\sqrt{3}$ -S surface. Physical Review B, 2008, 77, .	3.2	14
144	Synthesis and conductance measurement of periodic arrays of gold nanoparticles. Applied Physics Letters, 2008, 93, 163103.	3.3	14

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145	Insulating conduction in Sn/Si(111): Possibility of a Mott insulating ground state and metallization/localization induced by carrier doping. <i>Physical Review B</i> , 2009, 80, .	3.2	14
146	Photoemission Structure Factor Effect for Fermi Rings of the Si(111)-Ag Surface. <i>E-Journal of Surface Science and Nanotechnology</i> , 2004, 2, 141-145.	0.4	14
147	Structure-dependent surface conductance at the initial stages in metal epitaxy on Si(111) surfaces. <i>Thin Solid Films</i> , 1993, 228, 113-116.	1.8	13
148	Long-period modulations in the linear chains of Tl atoms on Si(100). <i>Physical Review B</i> , 2005, 71, .	3.2	13
149	Unconventional superconductivity in the single-atom-layer alloy Si(111)-Ag(Tl,Pb). <i>Physical Review B</i> , 2018, 98, .	3.2	13
150	Surface Electrical Conduction Correlated with Surface Structures and Atom Dynamics. <i>Surface Review and Letters</i> , 1998, 05, 803-819.	1.1	12
151	Growth mode and electrical conductance of Ag atomic layers on Si( 001 ) surface. <i>Surface Science</i> , 2001, 493, 389-398.	1.9	12
152	Development of a Surface Magneto-Transport Measurement System with Multi-Probes and the In situ Measurement of Bi Nanofilms Prepared on Si(111)-Ag. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 036602.	1.5	12
153	.RAD.21* .RAD.21 phase formed by Na adsorption on Si(111)-Ag and its electronic structure. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 107-112.	0.4	12
154	Diffraction from small antiphase domains: $\hat{1}\pm$ , $\hat{1}^2$ , $6\hat{A}$ -6 phases of Au adsorbed Si(111). <i>Applied Surface Science</i> , 1998, 130-132, 47-53.	6.1	11
155	Altered expression levels of G protein subclass mRNAs in various seizure stages of the kindling model. <i>Brain Research</i> , 1999, 818, 570-574.	2.2	11
156	Construction of an ELS-LEED: an electron energy-loss spectrometer with electrostatic two-dimensional angular scanning. <i>Surface and Interface Analysis</i> , 2000, 30, 488-492.	1.8	11
157	Electrical Conduction on Various Au/Si(111) Surface Superstructures. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 497-502.	0.4	11
158	Electrical conduction of Ge nanodot arrays formed on an oxidized Si surface. <i>Applied Physics Letters</i> , 2007, 91, 123104.	3.3	11
159	Enhanced spin relaxation in an ultrathin metal film by the Rashba-type surface. <i>Physical Review B</i> , 2011, 83, .	3.2	11
160	A study on magnetization model for particulate media. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 3665-3667.	2.1	10
161	Structural phase transitions at clean and metal-covered Si(111) surfaces investigated by RHEED spot analysis. <i>Phase Transitions</i> , 1995, 53, 87-114.	1.3	10
162	Core-level photoemission of the Si(111)-Ag surface using synchrotron radiation. <i>Applied Surface Science</i> , 2002, 190, 121-128.	6.1	10

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163	Si(111)- $\sqrt{21} \times \sqrt{21}$ -(Ag+Cs) Surface Studied by Scanning Tunneling Microscopy and Angle-Resolved Photoemission Spectroscopy. Japanese Journal of Applied Physics, 2003, 42, 4659-4662.	1.5	10
164	Electron compound nature in a surface atomic layer of a two-dimensional hexagonal lattice. Physical Review B, 2010, 82, .	3.2	10
165	Superconducting single-atomic-layer Tl-Pb compounds on Ge(111) and Si(111) surfaces. Applied Surface Science, 2019, 479, 679-684.	6.1	10
166	&lt;i>In Situ &lt;/i>Microfabrication and Measurements of Bi<sub>2</sub>Se<sub>3</sub> Ultrathin Films in a Multichamber System with a Focused Ion Beam, Molecular Beam Epitaxy, and Four-Tip Scanning Tunneling Microscope. E-Journal of Surface Science and Nanotechnology, 2014, 12, 423-430.	0.4	9
167	Amygdaloid Kindling Elicits Persistent Changes in Pertussis Toxin-Catalyzed ADP-Ribosylation. Epilepsia, 1994, 35, 855-860.	5.1	8
168	Novel mutation of L718X in the ATP7A gene in a Japanese patient with classical Menkes disease, and four novel polymorphisms in the Japanese population. Journal of Human Genetics, 2000, 45, 315-317.	2.3	8
169	Surface roughness and electrical resistance on Si(100)-3-Na surface. Surface Science, 2001, 493, 619-625.	1.9	8
170	Quantum-Size Effect in Uniform Ge<sub>1-x</sub>Sn Alloy Nanodots Observed by Photoemission Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, L1176.	1.5	8
171	<i>In situ</i> transport measurements on ultrathin Bi(111) films using a magnetic tip: possible detection of current-induced spin polarization in the surface states. New Journal of Physics, 2013, 15, 105018.	2.9	8
172	Shubnikovâ€“de Haas oscillations in <i>p</i> and <i>n</i>-type topological insulator (Bi<sub>2</sub>Tl) /Overlock 10 2018, 30, 265001.	1.8	8
173	Measurements of Surface Electrical Conductance by Microscopic Four-Point Probes.. Hyomen Kagaku, 2002, 23, 740-752.	0.0	8
174	Diffusion anisotropy of Ag and In on Si(111) surface studied by UHV-SEM. Ultramicroscopy, 2000, 85, 23-33.	1.9	7
175	Localization and hopping conduction in glass and crystal phases of monatomic Au layers on a silicon surface. Physical Review B, 2009, 79, .	3.2	7
176	Anisotropic electronic conduction in metal nanofilms grown on a one-dimensional surface superstructure. Physical Review B, 2014, 89, .	3.2	7
177	Development of a Convenient &lt;i>in situ &lt;/i>UHV Scanning Tunneling Potentiometry System Using a Tip Holder Equipped with Current-Injection Wires. E-Journal of Surface Science and Nanotechnology, 2016, 14, 216-224.	0.4	7
178	Berry phase shift from $2\pi$ to $\pi$ in bilayer graphene by Li-intercalation and sequential desorption. Applied Physics Letters, 2017, 110, .	3.3	7
179	Soft-Magnetic Skyrmions Induced by Surface-State Coupling in an Intrinsic Ferromagnetic Topological Insulator Sandwich Structure. Nano Letters, 2022, 22, 881-887.	9.1	7
180	Electrical functional properties of surface superstructures on semiconductors. Advances in Colloid and Interface Science, 1997, 71-72, 125-145.	14.7	6

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181	Atomic structure of two-dimensional binary surface alloys: Si(111)- $\sqrt{21}\times\sqrt{21}$ superstructure. Surface Science, 2012, 606, 919-923.	1.9	6
182	Electron-spin-dependent $4\text{He}^+$ ion scattering on Bi surfaces. Radiation Effects and Defects in Solids, 2014, 169, 1003-1009.	1.2	6
183	Superconductor-insulator transition in an anisotropic two-dimensional electron gas assisted by one-dimensional Friedel oscillations: $\langle \mathbf{m} \cdot \mathbf{m} \rangle \propto T^3$ . Physical Review B, 2019, 100, .	3.2	6
184	Epitaxial Growth of Ag on Si(111)- $4\times 1$ -In Surface Studied by RHEED, STM, and Electrical Resistance Measurements. E-Journal of Surface Science and Nanotechnology, 2003, 1, 72-79.	0.4	6
185	Functional significance of stimulatory GTP-binding protein in hippocampus is associated with kindling-elicited epileptogenesis. Psychiatry and Clinical Neurosciences, 2000, 54, 191-197.	1.8	5
186	Synthesis of Metal-Alloy-Coated Nanowires toward Functional Scanning Probe Microscope. Japanese Journal of Applied Physics, 2006, 45, 3690-3692.	1.5	5
187	Conductance transition and interwire ordering of Pb nanowires on Si(557). Physical Review B, 2010, 82, .	3.2	5
188	Static and dynamic observation of supermolecular protein, ferritin, using high-speed atomic force microscope. Journal of Applied Physics, 2011, 109, .	2.5	5
189	Comment on "Quantum transport in the surface states of epitaxial Bi(111) thin films". Physical Review B, 2018, 97, .	3.2	5
190	Weak localization in bilayer graphene with Li-intercalation/desorption. Journal of Physics Condensed Matter, 2018, 30, 305701.	1.8	5
191	Successive Phase Transitions Induced by Ca and Sr Adsorptions on a Si(111) Surface. E-Journal of Surface Science and Nanotechnology, 2004, 2, 178-185.	0.4	5
192	Development of a Surface Magneto-Transport Measurement System with Multi-Probes and the <i>In situ</i> Measurement of Bi Nanofilms Prepared on Si(111)- $7\times 7$ . Japanese Journal of Applied Physics, 2011, 50, 036602. Hall effect induced by asymmetric illumination of light in topological insulator	1.5	5
193	$\langle \mathbf{m} \cdot \mathbf{m} \rangle \propto T^3$ . Physical Review B, 2019, 100, .	3.6	5
194	Atomic imaging of macroscopic surface conductivity. Current Opinion in Solid State and Materials Science, 1999, 4, 429-434.	11.5	4
195	Substrate-Structure Dependence of Ag Electromigration on Au-Precovered Si(111) Surfaces. Japanese Journal of Applied Physics, 2000, 39, 4438-4442.	1.5	4
196	Electromigration and phase transformation of Ag on a Cu-precovered Si(111) surface. Surface Science, 2001, 493, 331-337.	1.9	4
197	Formation of Facet Structures by Au Adsorption on Vicinal Si(111) Surfaces. E-Journal of Surface Science and Nanotechnology, 2003, 1, 84-90.	0.4	4
198	Scanning tunnelling microscopy observations at initial stage of Cs adsorption on Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ag surface. Surface and Interface Analysis, 2005, 37, 101-105.	1.8	4

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199	Target element dependent spin-orbit coupling in polarized 4He <sup>+</sup> ion scattering. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 163-166.	1.4	4
200	Efficient Edelstein effects in one-atom-layer Tl-Pb compound. Applied Physics Letters, 2018, 113, .	3.3	4
201	Charge and spin transport on surfaces and atomic layers measured by multi-probe techniques. Journal of Physics Condensed Matter, 2019, 31, 223001.	1.8	4
202	STM observation of the Si(111)-c(12*2)-Ag surface. E-Journal of Surface Science and Nanotechnology, 2005, 3, 151-155.	0.4	4
203	Allotropic Transformation of Semimetal Bi Nanofilm on the Si Surface. Hyomen Kagaku, 2005, 26, 344-350.	0.0	3
204	Band-bending inhomogeneity of Au adsorbed surface evaluated with Si 2p core-level spectra. Surface Science, 2008, 602, 3316-3322.	1.9	3
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