Tetsuroh Shirasawa

List of Publications by Year
in descending order

73 papers	1,488 citations	331670 21 h-index	330143 37 g-index
76 all docs	76 docs citations	76 times ranked	2070 citing authors

#	Article	IF	Citations
1	Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer. Nano Letters, 2017, 17, 3493-3500.	9.1	129
2	Atomic and Electronic Structure of Ultrathin Bi(111) Films Grown on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mn stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (stretchy="false">)</mm	7.8	122
3	Transition. Physical Review Letters, 2012, 109, 227401. A weak topological insulator state in quasi-one-dimensional bismuth iodide. Nature, 2019, 566, 518-522.	27.8	119
4	Evidence for a higher-order topological insulator in a three-dimensional material built from van der Waals stacking of bismuth-halide chains. Nature Materials, 2021, 20, 473-479.	27.5	98
5	Determination of atomic positions in silicene on Ag(111) by low-energy electron diffraction. Surface Science, 2014, 623, 25-28.	1.9	97
6	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
7	Atomically Well-Ordered Structure at Solid Electrolyte and Electrode Interface Reduces the Interfacial Resistance. ACS Applied Materials & Interfaces, 2018, 10, 41732-41737.	8.0	58
8	Epitaxial Silicon Oxynitride Layer on a6Hâ^'SiC(0001)Surface. Physical Review Letters, 2007, 98, 136105.	7.8	57
9	Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. Nature Communications, 2020, 11, 4821.	12.8	47
10	Surface relaxation of topological insulators: Influence on the electronic structure. Physical Review B, 2012, 85, .	3.2	39
11	Re-investigation of the Bi-induced Si(111)-() surfaces by low-energy electron diffraction. Surface Science, 2010, 604, 1044-1048.	1.9	37
12	Structure determination ofSi(001)â^'c(4Ã—2)surfaces at80Kand electron beam effect below40Kstudied by low-energy electron diffraction. Physical Review B, 2004, 69, .	3.2	28
13	Structure and transport properties of Cu-dopedBi2Se3films. Physical Review B, 2014, 89, .	3.2	28
14	Structural analysis of the c(4Ã—2) reconstruction in Si(001) and Ge(001) surfaces by low-energy electron diffraction. Surface Science, 2006, 600, 815-819.	1.9	26
15	Multibeam x-ray optical system for high-speed tomography. Optica, 2020, 7, 514.	9.3	26
16	Interface of a Bi(001) film onSi(111)â^'7Ã—7imaged by surface x-ray diffraction. Physical Review B, 2011, 84, .	3.2	25
17	Atomic structure of â€œmultilayer siliceneâ€•grown on Ag(111): Dynamical low energy electron diffraction analysis. Surface Science, 2016, 651, 70-75.	1.9	24
18	Atomic-layer-resolved bandgap structure of an ultrathin oxynitride-silicon film epitaxially grown on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>6</mml:mn><mml:mi>H</mml:mi><mml:mtext>-SiC</mml:mtext><mml:mrow><mml:mo>(</m Physical Review B, 2009, 79, .	3.2	23

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19	Quick measurement of crystal truncation rod profiles in simultaneous multi-wavelength dispersive mode. Journal of Applied Physics, 2011, 110, .	2.5	23
20	Identification of the Structure Model of theSi(111)â˜'(5Ã—2)â˜'AuSurface. Physical Review Letters, 2014, 113, 165501.	7.8	22
21	Electron-Beam-Induced Disordering of theSi(001)â˜'c(4Ã—2)Surface Structure. Physical Review Letters, 2005, 94, 195502.	7.8	21
22	Structure of the quasi-one-dimensional Si(553)-Au surface: Gold dimer row and silicon honeycomb chain. Physical Review B, 2010, 82, .	3.2	21
23	Structure determination of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Si</mml:mi><mml:mrow><mml:mo>(</mml:mo></mml:mrow></mml:mrow></mml:math> atomic-layer superconductor. Physical Review B, 2019, 99, .	3.2	21
24	The epitaxial crystalline silicon-oxynitride layer on SiC(0001): Formation of an ideal SiCâ€“insulator interface. Progress in Surface Science, 2011, 86, 295-327.	8.3	20
25	Structural Change of the Rutileâ€“TiO2(110) Surface During the Photoinduced Wettability Conversion. Journal of Physical Chemistry C, 2016, 120, 29107-29115.	3.1	20
26	Low Interface Resistance in Solid-State Lithium Batteries Using Spinel LiNi_{0.5}Mn_{1.5}O₄(111) Epitaxial Thin Films. ACS Applied Energy Materials, 2020, 3, 1358-1363.	5.1	18
27	Nonvortical Rashba Spin Structure on a Surface withC1hSymmetry. Physical Review Letters, 2016, 117, 016803.	7.8	15
28	Triangular lattice atomic layer of Sn(1 Ã— 1) at graphene/SiC(0001) interface. Applied Physics Express, 2018, 11, 015202.	2.4	15
29	Structure of a Bi/Bi<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> heteroepitaxial film studied by x-ray crystal truncation rod scattering. Physical Review B, 2013, 87, .	3.2	13
30	A method for measuring the specular X-ray reflectivity with millisecond time resolution. Journal of Physics: Conference Series, 2013, 425, 092003.	0.4	11
31	A multi-beam X-ray imaging detector using a branched optical fiber bundle. Japanese Journal of Applied Physics, 2020, 59, 038003.	1.5	11
32	High-speed multi-beam X-ray imaging using a lens coupling detector system. Applied Physics Express, 2020, 13, 077002.	2.4	11
33	Growth of extremely flat Bi(110) films on a Si(111)â^š3 Ã— â^š3-B substrate. Applied Physics Express, 2020, 13, 085506.	2.4	11
34	Fast Structure Determination of Electrode Surfaces for Investigating Electrochemical Dynamics Using Wavelength-Dispersive X-ray Crystal Truncation Rod Measurements. Journal of Physical Chemistry C, 2017, 121, 24726-24732.	3.1	10
35	Tuning the Schottky Barrier Height at the Interfaces of Metals and Mixed Conductors. ACS Applied Materials & Interfaces, 2021, 13, 15746-15754.	8.0	10
36	Structural Study of the Si(553)-Au Surface. E-Journal of Surface Science and Nanotechnology, 2009, 7, 533-536.	0.4	10

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37	Surface structure of novel semimetal WTe₂. Applied Physics Express, 2017, 10, 045702.	2.4	9
38	Drastic Reduction of the Solid Electrolyteâ€“Electrode Interface Resistance via Annealing in Battery Form. ACS Applied Materials & Interfaces, 2022, 14, 2703-2710.	8.0	9
39	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
40	A quick convergent-beam laboratory X-ray reflectometer using a simultaneous multiple-angle dispersive geometry. Journal of Applied Crystallography, 2017, 50, 570-575.	4.5	8
41	Twisted bilayer graphene fabricated by direct bonding in a high vacuum. Applied Physics Express, 2020, 13, 075004.	2.4	8
42	An ordered surface alloy formed by attractive interaction between coadsorbates: c(2Ã—2) on Cu(001) by Mg and Bi. Surface Science, 2003, 530, L307-L312.	1.9	7
43	Interface electronic structure at the topological insulatorâ€“ferrimagnetic insulator junction. Journal of Physics Condensed Matter, 2017, 29, 055002.	1.8	7
44	Observation of Structure of Surfaces and Interfaces by Synchrotron X-ray Diffraction: Atomic-Scale Imaging and Time-Resolved Measurements. Journal of the Physical Society of Japan, 2018, 87, 061010.	1.6	7
45	Surface X-ray Diffraction Study of the Metal-Insulator Transition on the Si(553)-Au Surface. E-Journal of Surface Science and Nanotechnology, 2008, 6, 281-285.	0.4	7
46	An ordered surface ternary alloy of a c(6 Ã— 4) structure formed on Cu(0 0 1) by substitutional coadsorption of Mg and Bi. Surface Science, 2003, 538, L488-L494.	1.9	6
47	Ordered mixed surface structures formed by coadsorption of dissimilar metal atoms on Cu(001). Vacuum, 2004, 74, 121-131.	3.5	5
48	Scanning tunneling microscopic and spectroscopic studies on a crystalline silica monolayer epitaxially formed on hexagonal SiC(0001Â¯) surfaces. Applied Physics Letters, 2014, 104, 051601.	3.3	5
49	Clean Solidâ€“Electrolyte/Electrode Interfaces Double the Capacity of Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 5861-5865.	8.0	5
50	Interface Structure of an Epitaxial Iron Silicide on Si(111) Studied with X-Ray Diffraction. E-Journal of Surface Science and Nanotechnology, 2009, 7, 513-517.	0.4	5
51	Equivalent ordered-mixed-surface-structures of p(4Ã—4)-p4gm formed on Cu(001) by coadsorptions of Bi+Mg and Sb+Mg. Surface Science, 2005, 588, 167-174.	1.9	4
52	Ground state of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Sn</mml:mtext><mml:mo>/</mml:mo><mml:mtext>Ge</mml:mtext></mml:mrow>	3.2	4
53	A New Pentacene Polymorph Induced by Interaction with a Bi(0001) Substrate. Journal of Physical Chemistry C, 2018, 122, 6240-6245.	3.1	4
54	Observation of Low-Energy Positron Diffraction Patterns with a Linac-Based Slow-Positron Beam. E-Journal of Surface Science and Nanotechnology, 2018, 16, 313-319.	0.4	4

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55	Study of the Interface Structure of Epitaxial Ultra-Thin Film by an X-Ray Holographic Imaging Method. E-Journal of Surface Science and Nanotechnology, 2009, 7, 525-528.	0.4	4
56	Study of buried Si(111)-5Ã—2-Au by surface X-ray diffraction. Applied Surface Science, 2008, 254, 7803-7806.	6.1	3
57	Real-time Observation of Interface Atomic Structures by an Energy-Dispersive Surface X-ray Diffraction. E-Journal of Surface Science and Nanotechnology, 2019, 17, 155-162.	0.4	3
58	A simple preparation of superconducting MgB2 thin films by compositeâ€“â€“target sputtering system. Physica C: Superconductivity and Its Applications, 2003, 388-389, 119-120.	1.2	2
59	Si 2<i>p</i> Core Level Shifts of the Epitaxial SiON Layer on a SiC(0001), Studied by Photoemissin Spectroscopy. Materials Science Forum, 0, 675-677, 15-19.	0.3	2
60	Surface X-ray Diffraction. , 2014, , .		2
61	Structure determination of the clean (001) surface of strained Si on Si1âˆ'xGex. Applied Physics Letters, 2015, 106, 061604.	3.3	2
62	Determination of a (4Ã—4) structure formed on a Cu(001) surface by adsorption of calcium. Surface Science, 2009, 603, 659-663.	1.9	1
63	(Invited) Is the Silicene a 2D Dirac Material?. ECS Transactions, 2015, 69, 337-344.	0.5	1
64	Evidence for a gold trimer on the Si(111)-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:msqrt><mml:mn>21</mml:mn></mml:msqrt><mml:mo>Ã—</mml:mo><mml:msqrt><mml:mn>21</mml:mn>	6.1	1
65	Direct Structure Determination of Thinfilm Interface by X-ray CTR Scattering. Nihon Kessho Gakkaishi, 2014, 56, 263-269.	0.0	1
66	Three-dimensional imaging of interface atoms using crystal-truncation rod scattering. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C549-C549.	0.3	0
67	Recent Progress in Surface X-ray Diffraction. Journal of the Vacuum Society of Japan, 2016, 59, 26-34.	0.3	0
68	Low-Energy Electron Diffraction â˜†. , 2018, , 365-365.		0
69	Structural Modification of Si(001)-c(4*2) Induced by Electron Beam at Low Temperatures. Hyomen Kagaku, 2005, 26, 480-485.	0.0	0
70	Quick measurement of crystal truncation rod in multi-wavelength dispersive mode. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C334-C335.	0.3	0
71	Structural Change of TiO₂(110) Surface Involved in the Photoinduced Wettability Transition. Hyomen Kagaku, 2017, 38, 620-625.	0.0	0
72	X-Ray Crystal Truncation Rod Scattering. , 2018, , 821-825.		0

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73	Controlling the Ionic and Electronic Transport at the All-solid-state Battery Interfaces. Vacuum and Surface Science, 2021, 64, 542-547.	0.1	0