

Tetsuroh Shirasawa

List of Publications by Year in descending order

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73
papers

1,488
citations

331670

21
h-index

330143

37
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76
all docs

76
docs citations

76
times ranked

2070
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Tuning the Schottky Barrier Height at the Interfaces of Metals and Mixed Conductors. ACS Applied Materials & Interfaces, 2021, 13, 15746-15754.	8.0	10
4	Clean Solidâ€“Electrolyte/Electrode Interfaces Double the Capacity of Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 5861-5865.	8.0	5
5	Controlling the Ionic and Electronic Transport at the All-solid-state Battery Interfaces. Vacuum and Surface Science, 2021, 64, 542-547.	0.1	0
6	Fabrication of a novel magnetic topological heterostructure and temperature evolution of its massive Dirac cone. Nature Communications, 2020, 11, 4821.	12.8	47
7	Twisted bilayer graphene fabricated by direct bonding in a high vacuum. Applied Physics Express, 2020, 13, 075004.	2.4	8
8	A multi-beam X-ray imaging detector using a branched optical fiber bundle. Japanese Journal of Applied Physics, 2020, 59, 038003.	1.5	11
9	High-speed multi-beam X-ray imaging using a lens coupling detector system. Applied Physics Express, 2020, 13, 077002.	2.4	11
10	Growth of extremely flat Bi(110) films on a Si(111)âˆ“3 Å— âˆ“3-B substrate. Applied Physics Express, 2020, 13, 085506.	2.4	11
11	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
12	Multibeam x-ray optical system for high-speed tomography. Optica, 2020, 7, 514.	9.3	26
13	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
14	Structure determination of the Si atomic-layer superconductor. Physical Review B, 2019, 99, .	4.2	20
15	A weak topological insulator state in quasi-one-dimensional bismuth iodide. Nature, 2019, 566, 518-522.	27.8	119
16	Triangular lattice atomic layer of Sn(1 Å— 1) at graphene/SiC(0001) interface. Applied Physics Express, 2018, 11, 015202.	2.4	15
17	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
18	A New Pentacene Polymorph Induced by Interaction with a Bi(0001) Substrate. Journal of Physical Chemistry C, 2018, 122, 6240-6245.	3.1	4

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19	Evidence for a gold trimer on the Si(111)- overflow="scroll">< mml:msqrt>< mml:mn>21</mml:mn></mml:msqrt>< mml:mo>Å</mml:mo>< mml:msqrt>< mml:mn>21</mml:mn></mml:msqrt>< mml:mo>Å</mml:mo>	6.1	1
20	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
21	Low-Energy Electron Diffraction \hat{t} . , 2018, , 365-365.		0
22	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
23	X-Ray Crystal Truncation Rod Scattering. , 2018, , 821-825.		0
24	Interface electronic structure at the topological insulatorâ€“ferrimagnetic insulator junction. Journal of Physics Condensed Matter, 2017, 29, 055002.	1.8	7
25	Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer. Nano Letters, 2017, 17, 3493-3500.	9.1	129
26	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
27	Surface structure of novel semimetal WTe_2 . Applied Physics Express, 2017, 10, 045702.	2.4	9
28	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
29	Structural Change of $TiO_2(110)$ Surface Involved in the Photoinduced Wettability Transition. Hyomen Kagaku, 2017, 38, 620-625.	0.0	0
30	Structural Change of the Rutileâ€“ $TiO_2(110)$ Surface During the Photoinduced Wettability Conversion. Journal of Physical Chemistry C, 2016, 120, 29107-29115.	3.1	20
31	Atomic structure of ϵ -multilayer siliceneâ€“grown on Ag(111): Dynamical low energy electron diffraction analysis. Surface Science, 2016, 651, 70-75.	1.9	24
32	Nonvortical Rashba Spin Structure on a Surface with C_{1h} Symmetry. Physical Review Letters, 2016, 117, 016803.	7.8	15
33	Recent Progress in Surface X-ray Diffraction. Journal of the Vacuum Society of Japan, 2016, 59, 26-34.	0.3	0
34	(Invited) Is the Silicene a 2D Dirac Material?. ECS Transactions, 2015, 69, 337-344.	0.5	1
35	Structure determination of the clean (001) surface of strained Si on $Si_1\hat{x}Ge_x$. Applied Physics Letters, 2015, 106, 061604.	3.3	2
36	Identification of the Structure Model of the $Si(111)\hat{y}(5\hat{A}-2)\hat{y}Au$ Surface. Physical Review Letters, 2014, 113, 165501.	7.8	22

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37	Determination of atomic positions in silicene on Ag(111) by low-energy electron diffraction. Surface Science, 2014, 623, 25-28.	1.9	97
38	Surface X-ray Diffraction. , 2014, , .		2
39	Scanning tunneling microscopic and spectroscopic studies on a crystalline silica monolayer epitaxially formed on hexagonal SiC(0001Å) surfaces. Applied Physics Letters, 2014, 104, 051601.	3.3	5
40	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
41	Structure and transport properties of Cu-dopedBi ₂ Se ₃ films. Physical Review B, 2014, 89, .	3.2	28
42	Direct Structure Determination of Thinfilm Interface by X-ray CTR Scattering. Nihon Kessho Gakkaishi, 2014, 56, 263-269.	0.0	1
43	Structure of a Bi ₂ Te ₃ heteroepitaxial film studied by x-ray crystal truncation rod scattering. Physical Review B, 2013, 87, .	3.2	13
44	A method for measuring the specular X-ray reflectivity with millisecond time resolution. Journal of Physics: Conference Series, 2013, 425, 092003.	0.4	11
45	Atomic and Electronic Structure of Ultrathin Bi(111) Films Grown on Si(111) Surface. Physical Review Letters, 2012, 109, 227401.	7.8	123
46	Surface relaxation of topological insulators: Influence on the electronic structure. Physical Review B, 2012, 85, .	3.2	39
47	Interface of a Bi(001) film onSi(111) imaged by surface x-ray diffraction. Physical Review B, 2011, 84, .	3.2	25
48	The epitaxial crystalline silicon-oxynitride layer on SiC(0001): Formation of an ideal SiC-insulator interface. Progress in Surface Science, 2011, 86, 295-327.	8.3	20
49	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
50	Quick measurement of crystal truncation rod profiles in simultaneous multi-wavelength dispersive mode. Journal of Applied Physics, 2011, 110, .	2.5	23
51	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
52	Re-investigation of the Bi-induced Si(111)-() surfaces by low-energy electron diffraction. Surface Science, 2010, 604, 1044-1048.	1.9	37
53	Ground state of the Sn ₂ Ge ₂ and its electron-beam-induced disordering. Physical Review B, 2010, 81, .	3.2	31
54	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

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55	Determination of a (4 \AA -4) structure formed on a Cu(001) surface by adsorption of calcium. Surface Science, 2009, 603, 659-663.	1.9	1
56	Atomic-layer-resolved bandgap structure of an ultrathin oxynitride-silicon film epitaxially grown on Si(111)-SiC. Physical Review B, 2009, 79, .	3.2	23
57	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
58	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
59	Structural Study of the Si(553)-Au Surface. E-Journal of Surface Science and Nanotechnology, 2009, 7, 533-536.	0.4	10
60	Study of buried Si(111)-5 \AA -2-Au by surface X-ray diffraction. Applied Surface Science, 2008, 254, 7803-7806.	6.1	3
61	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
62	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
63	Epitaxial Silicon Oxynitride Layer on a Si(001) Surface. Physical Review Letters, 2007, 98, 136105.	7.8	57
64	Structural analysis of the c(4 \AA -2) reconstruction in Si(001) and Ge(001) surfaces by low-energy electron diffraction. Surface Science, 2006, 600, 815-819.	1.9	26
65	Equivalent ordered-mixed-surface-structures of p(4 \AA -4)-p4gm formed on Cu(001) by coadsorptions of Bi+Mg and Sb+Mg. Surface Science, 2005, 588, 167-174.	1.9	4
66	Electron-Beam-Induced Disorder of the Si(001)-c(4 \AA -2) Surface Structure. Physical Review Letters, 2005, 94, 195502.	7.8	21
67	Structural Modification of Si(001)-c(4*2) Induced by Electron Beam at Low Temperatures. Hyomen Kagaku, 2005, 26, 480-485.	0.0	0
68	Structure determination of Si(001)-c(4 \AA -2) surfaces at 80K and electron beam effect below 40K studied by low-energy electron diffraction. Physical Review B, 2004, 69, .	3.2	28
69	Ordered mixed surface structures formed by coadsorption of dissimilar metal atoms on Cu(001). Vacuum, 2004, 74, 121-131.	3.5	5
70	An ordered surface alloy formed by attractive interaction between coadsorbates: c(2 \AA -2) on Cu(001) by Mg and Bi. Surface Science, 2003, 530, L307-L312.	1.9	7
71	An ordered surface ternary alloy of a c(6 \AA - 4) structure formed on Cu(0 0 1) by substitutional coadsorption of Mg and Bi. Surface Science, 2003, 538, L488-L494.	1.9	6
72	A simple preparation of superconducting MgB ₂ thin films by composite "target" sputtering system. Physica C: Superconductivity and Its Applications, 2003, 388-389, 119-120.	1.2	2

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73	Si 2 <i>p</i> Core Level Shifts of the Epitaxial SiON Layer on a SiC(0001), Studied by Photoemission Spectroscopy. Materials Science Forum, 0, 675-677, 15-19.	0.3	2