Noriaki Takagi

List of Publications by Year
in descending order

116 papers	3,706 citations	172457 29 h-index	138484 58 g-index
116 all docs	116 docs citations	116 times ranked	3502 citing authors

#	Article	IF	Citations
1	Structure of Silicene Grown on Ag(111). Applied Physics Express, 2012, 5, 045802.	2.4	518
2	Substrate-Induced Symmetry Breaking in Silicene. Physical Review Letters, 2013, 110, 076801.	7.8	358
3	Adsorption-Induced Switching of Magnetic Anisotropy in a Single Iron(II) Phthalocyanine Molecule on an Oxidized Cu(110) Surface. Physical Review Letters, 2009, 102, 167203.	7.8	268
4	Structural transition of silicene on Ag(111). Surface Science, 2013, 608, 297-300.	1.9	169
5	Path and mechanism of hydrogen absorption at Pd(100). Surface Science, 1998, 401, 344-354.	1.9	153
6	Evolution of Kondo Resonance from a Single Impurity Molecule to the Two-Dimensional Lattice. Physical Review Letters, 2011, 106, 187201.	7.8	138
7	Symmetry-Driven Novel Kondo Effect in a Molecule. Physical Review Letters, 2012, 109, 086602.	7.8	138
8	Determination of atomic positions in silicene on Ag(111) by low-energy electron diffraction. Surface Science, 2014, 623, 25-28.	1.9	97
9	Nature of Electron Transport by Pyridine-Based Tripodal Anchors: Potential for Robust and Conductive Single-Molecule Junctions with Gold Electrodes. Journal of the American Chemical Society, 2011, 133, 3014-3022.	13.7	94
10	Single-molecule quantum dot as a Kondo simulator. Nature Communications, 2017, 8, 16012.	12.8	77
11	Existence of two adsorbed states for K on the Si(100)(2Ã—1) surface: A thermal desorption study. Physical Review B, 1990, 42, 1868-1871.	3.2	72
12	Impulsive excitation of a vibrational mode of Cs on Pt(111). Chemical Physics Letters, 2002, 366, 606-610.	2.6	58
13	Silicene on Ag(111): Geometric and electronic structures of a new honeycomb material of Si. Progress in Surface Science, 2015, 90, 1-20.	8.3	58
14	Comment on â€œEvidence for Dirac Fermions in a Honeycomb Lattice Based on Siliconâ€• Physical Review Letters, 2013, 110, 229701.	7.8	56
15	Chemisorbed states of atomic oxygen and its replacement by atomic hydrogen on the diamond (100)-(2Ã—1) surface. Surface Science, 1999, 436, 63-71.	1.9	50
16	Direct Time-Domain Observation of Ultrafast Dephasing in Adsorbate-Substrate Vibration under the Influence of a Hot Electron Bath: Cs Adatoms on Pt(111). Physical Review Letters, 2004, 92, 057401.	7.8	48
17	Interaction of NO with CO on Pd(100): ordered coadsorption structures and explosive reaction. Surface Science, 1996, 350, 79-90.	1.9	47
18	Surface phonons of theSi(001)(2Ã—1)surface. Physical Review B, 1999, 60, 10919-10925.	3.2	44

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19	Fermi Surface Nesting and Structural Transition on a Metal Surface: In/Cu(001). Physical Review Letters, 2001, 86, 854-857.	7.8	43
20	Quantum delocalization of hydrogen on metal surfaces. Surface Science Reports, 2005, 57, 113-156.	7.2	40
21	Visualizing Type-II Weyl Points in Tungsten Ditelluride by Quasiparticle Interference. ACS Nano, 2017, 11, 11459-11465.	14.6	37
22	Stability of adsorbed states and site-conversion kinetics: CO on Ni(100). Physical Review B, 1994, 49, 16670-16677.	3.2	35
23	Reaction intermediates in the oxidation of methanol on a Pt(111)â€"(2Ã—2)O surface. Journal of Chemical Physics, 2003, 119, 4879-4886.	3.0	35
24	One-dimensional edge state of Bi thin film grown on Si(111). Applied Physics Letters, 2015, 107, .	3.3	35
25	Temporal and Local Reduction of a Potential Energy Well under Dynamic Equilibrium: CO on Ni(100). Physical Review Letters, 1994, 73, 292-295.	7.8	34
26	Vibrational spectra of hydrogen on the Rh(111) surface. Surface Science, 1999, 441, 507-514.	1.9	33
27	Electron Transfer Dynamics from Organic Adsorbate to a Semiconductor Surface:â€‰ Zinc Phthalocyanine on TiO2(110). Journal of Physical Chemistry B, 2005, 109, 18018-18024.	2.6	33
28	Location of an O atom in the Pd(110)c(2Ã—4)-O structure. An EELS study. Chemical Physics Letters, 1995, 232, 531-536.	2.6	32
29	Femtosecond wavepacket dynamics of Cs adsorbates on Pt(111): Coverage and temperature dependences. Physical Review B, 2005, 71, .	3.2	30
30	Diels-Alder Reaction on the Clean Diamond (100) 2Ã— 1 Surface. Japanese Journal of Applied Physics, 1999, 38, L1496-L1498.	1.5	29
31	Site conversion of CO on Ni(100): binding-energy difference and role of low-energy hindered vibrations. Chemical Physics Letters, 1993, 211, 48-52.	2.6	28
32	Mode-selective excitation of coherent surface phonons on alkali-covered metal surfaces. Physical Chemistry Chemical Physics, 2005, 7, 2697.	2.8	27
33	Controlling orbital-selective Kondo effects in a single molecule through coordination chemistry. Journal of Chemical Physics, 2014, 141, 054702.	3.0	27
34	Synthesis of tripodal anchor units bearing selenium functional groups and their adsorption behaviour on gold. Physical Chemistry Chemical Physics, 2009, 11, 4949.	2.8	26
35	Quantum delocalization of H on Pd(110): A vibrational study. Physical Review B, 1996, 53, 13767-13771.	3.2	25
36	Surface Phonons, Electronic Structure and Chemical Reactivity of Diamond (100)(2 Ã—1) Surface. Japanese Journal of Applied Physics, 1999, 38, 6659-6666.	1.5	25

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37	Electronic structure and femtosecond electron transfer dynamics at noble metal/tris-(8-hydroxyquinoline) aluminum interfaces. Physical Review B, 2005, 71, .	3.2	24
38	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
39	Electronic structure of the 4 Ã— 4 silicene monolayer on semi-infinite Ag(111). New Journal of Physics, 2015, 17, 015013.	2.9	21
40	Subsurface Hydrogen at Pd(100) Induced by Gas-Phase Atomic Hydrogen. Journal of Physical Chemistry B, 1999, 103, 7876-7881.	2.6	20
41	Electronic decoupling by h-BN layer between silicene and Cu(111): A DFT-based analysis. New Journal of Physics, 2014, 16, 105019.	2.9	20
42	Structural evolution of Bi thin films on Au(111) revealed by scanning tunneling microscopy. Physical Review B, 2017, 96, .	3.2	20
43	Chemical reactivity of the Si(100)(2 Ã— 1)-K surface: electron energy loss spectroscopy and thermal desorption studies. Surface Science, 1991, 242, 498-502.	1.9	17
44	Adsorbed states of H on Ni(111) at 100 K: A vibrational study. Physical Review B, 1997, 56, 14952-14955.	3.2	17
45	Spectroscopic Identification of Ag-Terminated â€œMultilayer Siliceneâ€•Grown on Ag(111). Journal of Physical Chemistry C, 2016, 120, 6689-6693.	3.1	17
46	Explosive production of CO2 from (NO + CO)/Pd(100). Surface Science, 1995, 341, L1096-L1100.	1.9	16
47	Coherent surface phonon at aGaAs(100)âˆ’c(8Ã—2)surface. Physical Review B, 2002, 65, .	3.2	16
48	Role of Structural Fluctuation in a Surface Reaction Studied by Scanning Tunneling Microscopy: TheCO+Oâ†’CO2Clean-Off Reaction on Ag(110)-(2Ã—1)-O. Physical Review Letters, 2003, 90, 226105.	7.8	15
49	Reactivity of molecular oxygen: conversion of methanol to formate at low temperatures on Pt(111). Chemical Physics Letters, 2004, 392, 334-339.	2.6	15
50	In Situ Observation of CO Oxidation on Ag(110)(2Ã—1)-O by Scanning Tunneling Microscopy:Â Structural Fluctuation and Catalytic Activity. Journal of Physical Chemistry B, 2005, 109, 14536-14543.	2.6	15
51	Unsubstituted and Fluorinated Copper Phthalocyanine Overlayers on Si(111)-(âˆš7 Ã— âˆš3)-In Surface: Adsorption Geometry, Charge Polarization, and Effects on Superconductivity. Journal of Physical Chemistry C, 2019, 123, 8951-8958.	3.1	15
52	Direct observation of isothermal adsorption and desorption processes of CO on the Ni(100) surface. Chemical Physics Letters, 1993, 215, 120-124.	2.6	14
53	Adsorption and Thermal Decomposition of Formic Acid on the Si(100)(2Ã—1)âˆ’K Surface. Journal of Physical Chemistry B, 1997, 101, 7007-7011.	2.6	14
54	Anomalous quenching of electronic states of nanographene on Pt(111) by deuterium edge termination. Physical Review B, 2002, 65, .	3.2	14

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55	Enhancement of Inelastic Electron Tunneling Conductance Caused by Electronic Decoupling in Iron Phthalocyanine Bilayer on Ag(111). Journal of Physical Chemistry C, 2013, 117, 21832-21837.	3.1	14
56	Promoted oxidation of the K-modified Si(100) (2Ã—1) surface: Electron-energy-loss-spectroscopy and thermal-desorption studies. Physical Review B, 1991, 44, 12945-12951.	3.2	13
57	Investigation on the Surface Electronic States of the Si(001) c(4Ã—2) and c(8Ã—8) Surfaces: An Electron Energy Loss Spectroscopy Study. Japanese Journal of Applied Physics, 1997, 36, L975-L978.	1.5	13
58	Adsorption and thermal decomposition of N2O on Si(100): electron energy loss spectroscopy and thermal desorption studies. Surface Science, 1997, 382, 214-220.	1.9	13
59	Surface phonon excitation on clean metal surfaces in scanning tunneling microscopy. Physical Review B, 2016, 93, .	3.2	13
60	Rashba splitting in an image potential state investigated by circular dichroism two-photon photoemission spectroscopy. Physical Review B, 2016, 94, .	3.2	12
61	Hydrogen desorption from Si(100)(2 Ã— 1)-H induced by potassium adsorption. Surface Science, 1995, 325, 11-20.	1.9	11
62	Adsorbed states of K on the diamond (100)(2Ã—1) surface. Diamond and Related Materials, 2000, 9, 162-169.	3.9	11
63	The growth of ice clusters on the Si(100)(2 Ã— 1)-H(D) surface: Electron energy loss spectroscopy and thermal desorption studies. Surface Science, 1993, 297, L43-L47.	1.9	10
64	Temporal and local reduction of adsorption potential energy under gas phase: CO on Ni(100) and Pt(111). Surface Science, 1996, 363, 85-90.	1.9	10
65	Absorption of D in the H+D/Pd(100) reaction. Surface Science, 1998, 411, L849-L854.	1.9	10
66	Growth mechanism of the Pd(100)-p(2Ã—2)-p4g-Al surface alloy. Surface Science, 2000, 460, 264-276.	1.9	10
67	Thermal decomposition of acetylene on Pt(111) studied by scanning tunneling microscopy. Surface Science, 2002, 514, 414-419.	1.9	10
68	Ultrafast excited state dynamics in 3,4,9,10-perylene tetracarboxylic dianhydride (PTCDA) thin films. Chemical Physics Letters, 2004, 383, 261-265.	2.6	10
69	Transport characteristics of a single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>-molecule junction revealed by multiple Andreev reflections. Physical Review B, 2014, 90, .	3.2	10
70	Transport characteristics of a silicene nanoribbon on Ag(110). Beilstein Journal of Nanotechnology, 2017, 8, 1699-1704.	2.8	10
71	A new reaction channel in H(g)+D(a)/Pd(100): absorption versus abstraction. Surface Science, 1999, 427-428, 277-281.	1.9	9
72	Impact of reduced symmetry on magnetic anisotropy of a single iron phthalocyanine molecule on a Cu substrate. Journal of Chemical Physics, 2016, 144, 044701.	3.0	9

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73	Surface structure of novel semimetal WTe₂. Applied Physics Express, 2017, 10, 045702.	2.4	9
74	Adsorbed states ofNH3andC6H6on the Si(111)(âˆš3 Ã— âˆš3)R30Â°-B surface: Thermal-desorption and electron-energy-loss-spectroscopy studies. Physical Review B, 1994, 50, 17440-17449.	3.2	8
75	Comparison of electronic structure between monolayer silicenes on Ag (111). Chinese Physics B, 2015, 24, 087307.	1.4	8
76	Inelastic electron tunneling spectroscopy by STM of phonons at solid surfaces and interfaces. Progress in Surface Science, 2018, 93, 131-145.	8.3	8
77	Mechanically Tunable Spontaneous Vertical Charge Redistribution in Few-Layer WTe₂. Journal of Physical Chemistry C, 2020, 124, 2008-2012.	3.1	8
78	Density Functional Theory Calculation for Magnetism of Fe-Phthalocyanine Molecules on Au(111). E-Journal of Surface Science and Nanotechnology, 2012, 10, 38-44.	0.4	8
79	Adsorbed states of CO on the Si(100)-K surface: electron energy-loss spectroscopy and thermal desorption studies. Surface Science, 1998, 395, L246-L251.	1.9	7
80	Structure and chemistry of Pd(100)-p(2Ã—2)-p4gâ€“Al surface alloy. Surface Science, 1999, 427-428, 74-78.	1.9	7
81	Excitation mechanism and ultrafast vibrational wavepacket dynamics of alkali-metal atoms on Pt(111). Surface Science, 2005, 593, 110-115.	1.9	7
82	Mechanism of vibrational excitation in inelastic photoemission from solid surfaces. Physical Review B, 2009, 80, .	3.2	7
83	Combined Scanning Tunneling Microscopy and High-Resolution Electron Energy Loss Spectroscopy Study on the Adsorption State of CO on Ag(001). Langmuir, 2012, 28, 13249-13252.	3.5	7
84	Quasiparticle scattering in type-II Weyl semimetal MoTe2. Journal of Physics Condensed Matter, 2018, 30, 105703.	1.8	7
85	Scanning tunneling spectroscopy studies of topological materials. Journal of Physics Condensed Matter, 2020, 32, 243001.	1.8	7
86	Electron scattering from the K-exposed Si(100)(2Ã—1)-H surface. Physical Review B, 1992, 45, 13524-13530.	3.2	6
87	Mode-selective electron-phonon coupling in laser photoemission on Cu(110). Physical Review B, 2013, 88, .	3.2	6
88	Chemical reactivity of the Si(111) () R30Â°-B surface: An electron-energy-loss spectroscopy study. Applied Surface Science, 1994, 82-83, 434-436.	6.1	5
89	Mechanisms of the CO oxidation on the Pd(110)c(2 Ã— 4)-O surface. Surface Science, 1998, 397, 295-305.	1.9	5
90	Structural changes of AgO chains on Ag(110) by photo- and CO-induced oxygen elimination. Surface Science, 2003, 528, 144-150.	1.9	5

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91	Photochemistry of cyclohexane on Cu(111). Physical Chemistry Chemical Physics, 2006, 8, 179-185.	2.8	5
92	Adsorbed states of iron(II) phthalocyanine on Ag(111) studied by highâ€resolution electron energy loss spectroscopy. Surface and Interface Analysis, 2014, 46, 1253-1256.	1.8	5
93	Pragmatic Application of Abstract Algebra to Two-Dimensional Lattice Matching. E-Journal of Surface Science and Nanotechnology, 2015, 13, 361-365.	0.4	5
94	Model Hamiltonian approach to the magnetic anisotropy of iron phthalocyanine at solid surfaces. Physical Review B, 2016, 94, .	3.2	5
95	Spin-orbit interaction in unoccupied surface states. Progress in Surface Science, 2018, 93, 177-188.	8.3	5
96	Adsorbate-adsorbate interaction among NO and CO coadsorbed on Pd(100). Applied Surface Science, 1997, 121-122, 571-574.	6.1	4
97	Structure and thermal fluctuation of one-dimensional AgO chains on Ag(110) surfaces studied with density functional theory and Monte Carlo simulations. Journal of Chemical Physics, 2008, 129, 154709.	3.0	4
98	Comment on â€œRashba Spin-Orbit Coupling in Image Potential Statesâ€. Physical Review Letters, 2016, 117, 239701.	7.8	4
99	Atomic-hydrogen-induced restructuring of the Si(100)(2 Ã— 1)-K surface. Surface Science, 1995, 337, L783-L788.	1.9	3
100	Explosive evolution of hydrogen abstraction of water on oxidized Ag(110) surfaces studied by scanning tunnelling microscopy. Physical Chemistry Chemical Physics, 2007, 9, 5274.	2.8	3
101	CO adsorption on the Pd(110)c(2 Ã— 4)-O surface â€" formation of a p(2 Ã— 4) structure. Surface Science, 1996, 365, 422-428.	1.9	2
102	First-principles calculation of the graphene Dirac band on semi-infinite Ir(111). Physical Review B, 2020, 102, .	3.2	2
103	Femtosecond wavepacket dynamics of potassium adsorbate on Pt(111). Springer Series in Chemical Physics, 2005, , 307-309.	0.2	1
104	Spin Excitation of a Single Iron (II) Phthalocyanine Molecule on the Cu(110) Surface. Hyomen Kagaku, 2009, 30, 433-438.	0.0	1
105	High Energy- and Momentum-Resolved Two-Photon Photoemission Spectroscopy: Pure Dephasing Rate Measurement on Image States. Hyomen Kagaku, 2013, 34, 421-425.	0.0	1
106	Linewidth analysis of image potential states on noble metal surfaces with highâ€energy resolved twoâ€photon photoemission spectroscopy. Surface and Interface Analysis, 2016, 48, 1194-1198.	1.8	1
107	Electron Transport Through a Single Molecule in Scanning Tunneling Microscopy Junction. Advances in Atom and Single Molecule Machines, 2017, , 355-379.	0.0	1
108	<title>Dynamic formation of reaction sites at nanostructured one-dimensional surface compounds</title>. , 2003, , .		0

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109	Vibrationally Induced Inelastic Structures in Laser Photoemission Spectra. Hyomen Kagaku, 2007, 28, 378-384.	0.0	0
110	Electronic and Geometric Structure of Silicene on Ag. Journal of the Vacuum Society of Japan, 2014, 57, 428-433.	0.3	0
111	Silicene on Ag(111): Structure Evolution and Electronic Structure. Springer Series in Materials Science, 2016, , 143-165.	0.6	0
112	Silicene on Ag(111). , 2018, , 312-317.		0
113	Title is missing!. Shinku/Journal of the Vacuum Society of Japan, 2004, 47, 412-417.	0.2	0
114	Magnetism of Iron (II) Phthalocyanine at Surfaces -Spin, Magnetic Anisotropy and Kondo Effect-. Hyomen Kagaku, 2011, 32, 629-634.	0.0	0
115	Silicene grown on silver surface. Journal of Surface Analysis (Online), 2014, 21, 63-70.	0.1	0
116	REACTIONS OF GAS MOLECULES ON SILICON SURFACES STUDIED BY HIGH RESOLUTION ELECTRON ENERGY LOSS SPECTROSCOPY. , 1996, , 285-301.		0