

# Noriaki Takagi

## List of Publications by Year in descending order

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116  
papers

3,706  
citations

172207

29  
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138251

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.	1.1	518
2	Substrate-Induced Symmetry Breaking in Silicene. Physical Review Letters, 2013, 110, 076801.	2.9	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.	2.9	268
4	Structural transition of silicene on Ag(111). Surface Science, 2013, 608, 297-300.	0.8	169
5	Path and mechanism of hydrogen absorption at Pd(100). Surface Science, 1998, 401, 344-354.	0.8	153
6	Evolution of Kondo Resonance from a Single Impurity Molecule to the Two-Dimensional Lattice. Physical Review Letters, 2011, 106, 187201.	2.9	138
7	Symmetry-Driven Novel Kondo Effect in a Molecule. Physical Review Letters, 2012, 109, 086602.	2.9	138
8	Determination of atomic positions in silicene on Ag(111) by low-energy electron diffraction. Surface Science, 2014, 623, 25-28.	0.8	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.	6.6	94
10	Single-molecule quantum dot as a Kondo simulator. Nature Communications, 2017, 8, 16012.	5.8	77
11	Existence of two adsorbed states for K on the Si(100)(2 $\times$ 1) surface: A thermal desorption study. Physical Review B, 1990, 42, 1868-1871.	1.1	72
12	Impulsive excitation of a vibrational mode of Cs on Pt(111). Chemical Physics Letters, 2002, 366, 606-610.	1.2	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.	3.8	58
14	Comment on "Evidence for Dirac Fermions in a Honeycomb Lattice Based on Silicon". Physical Review Letters, 2013, 110, 229701.	2.9	56
15	Chemisorbed states of atomic oxygen and its replacement by atomic hydrogen on the diamond (100)-(2 $\times$ 1) surface. Surface Science, 1999, 436, 63-71.	0.8	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.	2.9	48
17	Interaction of NO with CO on Pd(100): ordered coadsorption structures and explosive reaction. Surface Science, 1996, 350, 79-90.	0.8	47
18	Surface phonons of the Si(001)(2 $\times$ 1) surface. Physical Review B, 1999, 60, 10919-10925.	1.1	44

#	ARTICLE	IF	CITATIONS
19	Fermi Surface Nesting and Structural Transition on a Metal Surface: In/Cu(001). <i>Physical Review Letters</i> , 2001, 86, 854-857.	2.9	43
20	Quantum delocalization of hydrogen on metal surfaces. <i>Surface Science Reports</i> , 2005, 57, 113-156.	3.8	40
21	Visualizing Type-II Weyl Points in Tungsten Ditelluride by Quasiparticle Interference. <i>ACS Nano</i> , 2017, 11, 11459-11465.	7.3	37
22	Stability of adsorbed states and site-conversion kinetics: CO on Ni(100). <i>Physical Review B</i> , 1994, 49, 16670-16677.	1.1	35
23	Reaction intermediates in the oxidation of methanol on a Pt(111) $\sqrt{2}\times\sqrt{2}$ -O surface. <i>Journal of Chemical Physics</i> , 2003, 119, 4879-4886.	1.2	35
24	One-dimensional edge state of Bi thin film grown on Si(111). <i>Applied Physics Letters</i> , 2015, 107, .	1.5	35
25	Temporal and Local Reduction of a Potential Energy Well under Dynamic Equilibrium: CO on Ni(100). <i>Physical Review Letters</i> , 1994, 73, 292-295.	2.9	34
26	Vibrational spectra of hydrogen on the Rh(111) surface. <i>Surface Science</i> , 1999, 441, 507-514.	0.8	33
27	Electron Transfer Dynamics from Organic Adsorbate to a Semiconductor Surface: Zinc Phthalocyanine on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry B</i> , 2005, 109, 18018-18024.	1.2	33
28	Location of an O atom in the Pd(110) $\sqrt{2}\times\sqrt{2}$ -O structure. An EELS study. <i>Chemical Physics Letters</i> , 1995, 232, 531-536.	1.2	32
29	Femtosecond wavepacket dynamics of Cs adsorbates on Pt(111): Coverage and temperature dependences. <i>Physical Review B</i> , 2005, 71, .	1.1	30
30	Diels-Alder Reaction on the Clean Diamond (100) $\sqrt{2}\times\sqrt{2}$ -1 Surface. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1496-L1498.	0.8	29
31	Site conversion of CO on Ni(100): binding-energy difference and role of low-energy hindered vibrations. <i>Chemical Physics Letters</i> , 1993, 211, 48-52.	1.2	28
32	Mode-selective excitation of coherent surface phonons on alkali-covered metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2697.	1.3	27
33	Controlling orbital-selective Kondo effects in a single molecule through coordination chemistry. <i>Journal of Chemical Physics</i> , 2014, 141, 054702.	1.2	27
34	Synthesis of tripodal anchor units bearing selenium functional groups and their adsorption behaviour on gold. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4949.	1.3	26
35	Quantum delocalization of H on Pd(110): A vibrational study. <i>Physical Review B</i> , 1996, 53, 13767-13771.	1.1	25
36	Surface Phonons, Electronic Structure and Chemical Reactivity of Diamond (100) $\sqrt{2}\times\sqrt{2}$ -1 Surface. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 6659-6666.	0.8	25

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37	Electronic structure and femtosecond electron transfer dynamics at noble metal/tris-(8-hydroxyquinoline) aluminum interfaces. <i>Physical Review B</i> , 2005, 71, .	1.1	24
38	Atomic structure of $\alpha$ -multilayer silicene-grown on Ag(111): Dynamical low energy electron diffraction analysis. <i>Surface Science</i> , 2016, 651, 70-75.	0.8	24
39	Electronic structure of the 4 $\text{\AA}$ - 4 silicene monolayer on semi-infinite Ag(111). <i>New Journal of Physics</i> , 2015, 17, 015013.	1.2	21
40	Subsurface Hydrogen at Pd(100) Induced by Gas-Phase Atomic Hydrogen. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7876-7881.	1.2	20
41	Electronic decoupling by h-BN layer between silicene and Cu(111): A DFT-based analysis. <i>New Journal of Physics</i> , 2014, 16, 105019.	1.2	20
42	Structural evolution of Bi thin films on Au(111) revealed by scanning tunneling microscopy. <i>Physical Review B</i> , 2017, 96, .	1.1	20
43	Chemical reactivity of the Si(100)(2 $\text{\AA}$ - 1)-K surface: electron energy loss spectroscopy and thermal desorption studies. <i>Surface Science</i> , 1991, 242, 498-502.	0.8	17
44	Adsorbed states of H on Ni(111) at 100 K: A vibrational study. <i>Physical Review B</i> , 1997, 56, 14952-14955.	1.1	17
45	Spectroscopic Identification of Ag-Terminated $\alpha$ -Multilayer Silicene-grown on Ag(111). <i>Journal of Physical Chemistry C</i> , 2016, 120, 6689-6693.	1.5	17
46	Explosive production of CO <sub>2</sub> from (NO + CO)/Pd(100). <i>Surface Science</i> , 1995, 341, L1096-L1100.	0.8	16
47	Coherent surface phonon at aGaAs(100) $\alpha^{\text{c}}$ (8 $\text{\AA}$ -2)surface. <i>Physical Review B</i> , 2002, 65, .	1.1	16
48	Role of Structural Fluctuation in a Surface Reaction Studied by Scanning Tunneling Microscopy: TheCO+O $\alpha^{\text{t}}$ CO <sub>2</sub> Clean-Off Reaction on Ag(110)-(2 $\text{\AA}$ -1)-O. <i>Physical Review Letters</i> , 2003, 90, 226105.	2.9	15
49	Reactivity of molecular oxygen: conversion of methanol to formate at low temperatures on Pt(111). <i>Chemical Physics Letters</i> , 2004, 392, 334-339.	1.2	15
50	In Situ Observation of CO Oxidation on Ag(110)(2 $\text{\AA}$ -1)-O by Scanning Tunneling Microscopy: $\hat{A}$ Structural Fluctuation and Catalytic Activity. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14536-14543.	1.2	15
51	Unsubstituted and Fluorinated Copper Phthalocyanine Overlayers on Si(111)-(7 $\text{\AA}$ - 3)-In Surface: Adsorption Geometry, Charge Polarization, and Effects on Superconductivity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8951-8958.	1.5	15
52	Direct observation of isothermal adsorption and desorption processes of CO on the Ni(100) surface. <i>Chemical Physics Letters</i> , 1993, 215, 120-124.	1.2	14
53	Adsorption and Thermal Decomposition of Formic Acid on the Si(100)(2 $\text{\AA}$ -1) $\alpha^{\text{K}}$ Surface. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7007-7011.	1.2	14
54	Anomalous quenching of electronic states of nanographene on Pt(111) by deuterium edge termination. <i>Physical Review B</i> , 2002, 65, .	1.1	14

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55	Enhancement of Inelastic Electron Tunneling Conductance Caused by Electronic Decoupling in Iron Phthalocyanine Bilayer on Ag(111). <i>Journal of Physical Chemistry C</i> , 2013, 117, 21832-21837.	1.5	14
56	Promoted oxidation of the K-modified Si(100) (2Å–1) surface: Electron-energy-loss-spectroscopy and thermal-desorption studies. <i>Physical Review B</i> , 1991, 44, 12945-12951.	1.1	13
57	Investigation on the Surface Electronic States of the Si(001) c(4Å–2) and c(8Å–8) Surfaces: An Electron Energy Loss Spectroscopy Study. <i>Japanese Journal of Applied Physics</i> , 1997, 36, L975-L978.	0.8	13
58	Adsorption and thermal decomposition of N <sub>2</sub> O on Si(100): electron energy loss spectroscopy and thermal desorption studies. <i>Surface Science</i> , 1997, 382, 214-220.	0.8	13
59	Surface phonon excitation on clean metal surfaces in scanning tunneling microscopy. <i>Physical Review B</i> , 2016, 93, .	1.1	13
60	Rashba splitting in an image potential state investigated by circular dichroism two-photon photoemission spectroscopy. <i>Physical Review B</i> , 2016, 94, .	1.1	12
61	Hydrogen desorption from Si(100)(2 Å– 1)-H induced by potassium adsorption. <i>Surface Science</i> , 1995, 325, 11-20.	0.8	11
62	Adsorbed states of K on the diamond (100)(2Å–1) surface. <i>Diamond and Related Materials</i> , 2000, 9, 162-169.	1.8	11
63	The growth of ice clusters on the Si(100)(2 Å– 1)-H(D) surface: Electron energy loss spectroscopy and thermal desorption studies. <i>Surface Science</i> , 1993, 297, L43-L47.	0.8	10
64	Temporal and local reduction of adsorption potential energy under gas phase: CO on Ni(100) and Pt(111). <i>Surface Science</i> , 1996, 363, 85-90.	0.8	10
65	Absorption of D in the H+D/Pd(100) reaction. <i>Surface Science</i> , 1998, 411, L849-L854.	0.8	10
66	Growth mechanism of the Pd(100)-p(2Å–2)-p4g-Al surface alloy. <i>Surface Science</i> , 2000, 460, 264-276.	0.8	10
67	Thermal decomposition of acetylene on Pt(111) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2002, 514, 414-419.	0.8	10
68	Ultrafast excited state dynamics in 3,4,9,10-perylene tetracarboxylic dianhydride (PTCDA) thin films. <i>Chemical Physics Letters</i> , 2004, 383, 261-265.	1.2	10
69	Transport characteristics of a single $C_{60}$ -molecule junction revealed by multiple Andreev reflections. <i>Physical Review B</i> , 2014, 90, .	1.1	10
70	Transport characteristics of a silicene nanoribbon on Ag(110). <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1699-1704.	1.5	10
71	A new reaction channel in H(g)+D(a)/Pd(100): absorption versus abstraction. <i>Surface Science</i> , 1999, 427-428, 277-281.	0.8	9
72	Impact of reduced symmetry on magnetic anisotropy of a single iron phthalocyanine molecule on a Cu substrate. <i>Journal of Chemical Physics</i> , 2016, 144, 044701.	1.2	9

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73	Surface structure of novel semimetal $WTe_2$ . Applied Physics Express, 2017, 10, 045702.	1.1	9
74	Adsorbed states of $NH_3$ and $C_6H_6$ on the $Si(111)(\sqrt{3} \times \sqrt{3})R30^\circ$ -B surface: Thermal-desorption and electron-energy-loss-spectroscopy studies. Physical Review B, 1994, 50, 17440-17449.	1.1	8
75	Comparison of electronic structure between monolayer silicenes on Ag (111). Chinese Physics B, 2015, 24, 087307.	0.7	8
76	Inelastic electron tunneling spectroscopy by STM of phonons at solid surfaces and interfaces. Progress in Surface Science, 2018, 93, 131-145.	3.8	8
77	Mechanically Tunable Spontaneous Vertical Charge Redistribution in Few-Layer $WTe_2$ . Journal of Physical Chemistry C, 2020, 124, 2008-2012.	1.5	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.	0.1	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.	0.8	7
80	Structure and chemistry of Pd(100)-p(2 $\sqrt{2}$ $\times$ 2)-p4g $\sqrt{2}$ -Al surface alloy. Surface Science, 1999, 427-428, 74-78.	0.8	7
81	Excitation mechanism and ultrafast vibrational wavepacket dynamics of alkali-metal atoms on Pt(111). Surface Science, 2005, 593, 110-115.	0.8	7
82	Mechanism of vibrational excitation in inelastic photoemission from solid surfaces. Physical Review B, 2009, 80, .	1.1	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.	1.6	7
84	Quasiparticle scattering in type-II Weyl semimetal $MoTe_2$ . Journal of Physics Condensed Matter, 2018, 30, 105703.	0.7	7
85	Scanning tunneling spectroscopy studies of topological materials. Journal of Physics Condensed Matter, 2020, 32, 243001.	0.7	7
86	Electron scattering from the K-exposed Si(100)(2 $\sqrt{2}$ $\times$ 1)-H surface. Physical Review B, 1992, 45, 13524-13530.	1.1	6
87	Mode-selective electron-phonon coupling in laser photoemission on Cu(110). Physical Review B, 2013, 88, .	1.1	6
88	Chemical reactivity of the Si(111) ( $\sqrt{3} \times \sqrt{3}$ )R30 $^\circ$ -B surface: An electron-energy-loss spectroscopy study. Applied Surface Science, 1994, 82-83, 434-436.	3.1	5
89	Mechanisms of the CO oxidation on the Pd(110)c(2 $\sqrt{2}$ $\times$ 4)-O surface. Surface Science, 1998, 397, 295-305.	0.8	5
90	Structural changes of AgO chains on Ag(110) by photo- and CO-induced oxygen elimination. Surface Science, 2003, 528, 144-150.	0.8	5

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91	Photochemistry of cyclohexane on Cu(111). <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 179-185.	1.3	5
92	Adsorbed states of iron(II) phthalocyanine on Ag(111) studied by high-resolution electron energy loss spectroscopy. <i>Surface and Interface Analysis</i> , 2014, 46, 1253-1256.	0.8	5
93	Pragmatic Application of Abstract Algebra to Two-Dimensional Lattice Matching. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015, 13, 361-365.	0.1	5
94	Model Hamiltonian approach to the magnetic anisotropy of iron phthalocyanine at solid surfaces. <i>Physical Review B</i> , 2016, 94, .	1.1	5
95	Spin-orbit interaction in unoccupied surface states. <i>Progress in Surface Science</i> , 2018, 93, 177-188.	3.8	5
96	Adsorbate-adsorbate interaction among NO and CO coadsorbed on Pd(100). <i>Applied Surface Science</i> , 1997, 121-122, 571-574.	3.1	4
97	Structure and thermal fluctuation of one-dimensional AgO chains on Ag(110) surfaces studied with density functional theory and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2008, 129, 154709.	1.2	4
98	Comment on "Rashba Spin-Orbit Coupling in Image Potential States". <i>Physical Review Letters</i> , 2016, 117, 239701.	2.9	4
99	Atomic-hydrogen-induced restructuring of the Si(100)(2 Å <sup>-1</sup> )-K surface. <i>Surface Science</i> , 1995, 337, L783-L788.	0.8	3
100	Explosive evolution of hydrogen abstraction of water on oxidized Ag(110) surfaces studied by scanning tunnelling microscopy. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 5274.	1.3	3
101	CO adsorption on the Pd(110)(2 Å <sup>-1</sup> )-O surface: formation of a p(2 Å <sup>-1</sup> ) structure. <i>Surface Science</i> , 1996, 365, 422-428.	0.8	2
102	First-principles calculation of the graphene Dirac band on semi-infinite Ir(111). <i>Physical Review B</i> , 2020, 102, .	1.1	2
103	Femtosecond wavepacket dynamics of potassium adsorbate on Pt(111). <i>Springer Series in Chemical Physics</i> , 2005, , 307-309.	0.2	1
104	Spin Excitation of a Single Iron (II) Phthalocyanine Molecule on the Cu(110) Surface. <i>Hyomen Kagaku</i> , 2009, 30, 433-438.	0.0	1
105	High Energy- and Momentum-Resolved Two-Photon Photoemission Spectroscopy: Pure Dephasing Rate Measurement on Image States. <i>Hyomen Kagaku</i> , 2013, 34, 421-425.	0.0	1
106	Linewidth analysis of image potential states on noble metal surfaces with high-energy resolved two-photon photoemission spectroscopy. <i>Surface and Interface Analysis</i> , 2016, 48, 1194-1198.	0.8	1
107	Electron Transport Through a Single Molecule in Scanning Tunneling Microscopy Junction. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 355-379.	0.0	1
108	<title>Dynamic formation of reaction sites at nanostructured one-dimensional surface compounds</title>. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
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.	0.4	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