Akitoshi Shiotari

List of Publications by Year
in descending order

41	814	623734	501196
papers	citations	14 h-index	28 g-index

44	44	44	1212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption and valence electronic states of nitric oxide on metal surfaces. Surface Science Reports, 2021, 76, 100500.	7.2	14
2	A flat-lying dimer as a key intermediate in NO reduction on Cu(100). Physical Chemistry Chemical Physics, 2021, 23, 16880-16887.	2.8	6
3	Mechanically induced single-molecule helicity switching of graphene-nanoribbon-fused helicene on Au(111). Chemical Science, 2021, 12, 13301-13306.	7.4	6
4	Structure of one-dimensional monolayer Si nanoribbons on Ag(111). Physical Review Materials, 2021, 5, .	2.4	1
5	Role of Intermolecular Interactions in the Catalytic Reaction of Formic Acid on Cu(111). Small, 2021, 17, e2008010.	10.0	13
6	Theoretical study on adsorption and reaction of polymeric formic acid on the Cu(111) surface. Physical Review Materials, 2021, 5, .	2.4	4
7	Detection of Spin Transfer from Metal to Molecule by Magnetoresistance Measurement. Nano Letters, 2020, 20, 75-80.	9.1	3
8	Manipulable Metal Catalyst for Nanographene Synthesis. Nano Letters, 2020, 20, 8339-8345.	9.1	6
9	Intrinsic reconstruction of ice-I surfaces. Science Advances, 2020, 6, .	10.3	10
10	Quality control of on-surface-synthesised seven-atom wide armchair graphene nanoribbons. Nanoscale, 2020, 12, 6651-6657.	5.6	13
11	Small bandgap in atomically precise 17-atom-wide armchair-edged graphene nanoribbons. Communications Materials, 2020, 1, .	6.9	40
12	Realization of Spin-dependent Functionality by Covering a Metal Surface with a Single Layer of Molecules. Nano Letters, 2019, 19, 7119-7123.	9.1	14
13	Characterization of two- and one-dimensional water networks on Ni(111) via atomic force microscopy. Physical Review Materials, 2019, 3, .	2.4	16
14	Chiral Discrimination and Manipulation of Individual Heptahelicene Molecules on Cu(001) by Noncontact Atomic Force Microscopy. Journal of Physical Chemistry C, 2018, 122, 4997-5003.	3.1	17
15	Waterâ€“NO Complex Formation and Chain Growth on Cu(111). Journal of Physical Chemistry C, 2018, 122, 8894-8900.	3.1	9
16	Atomic-scale study of the formation of sodiumâ€“water complexes on Cu(110). Physical Chemistry Chemical Physics, 2018, 20, 12210-12216.	2.8	8
17	Atomic Force Microscopy Observation of Water Networks at Ultrahigh Resolution. Vacuum and Surface Science, 2018, 61, 215-220.	0.1	0
18	Torque-Induced Change in Configuration of a Single NO Molecule on Cu(110). Physical Review Letters, 2018, 121, 116101.	7.8	21

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19	Enhanced resolution imaging of ultrathin ZnO layers on Ag(111) by multiple hydrogen molecules in a scanning tunneling microscope junction. Physical Review B, 2018, 97, .	3.2	7
20	Synthesis, Structures, and Properties of Core-Expanded Azacoronene Analogue: A Twisted Ï€-System with Two N-Doped Heptagons. Journal of the American Chemical Society, 2018, 140, 10430-10434.	13.7	88
21	Inelastic Electron Tunneling Spectroscopy. , 2018, , 283-288.		0
22	Ultrahigh-resolution imaging of water networks by atomic force microscopy. Nature Communications, 2017, 8, 14313.	12.8	102
23	Strain-induced skeletal rearrangement of a polycyclic aromatic hydrocarbon on a copper surface. Nature Communications, 2017, 8, 16089.	12.8	57
24	NO Reduction by Co-adsorbed Water Molecules on Cu(110). Springer Theses, 2017, , 63-72.	0.1	0
25	Symmetry Correlation between Molecular Vibrations and Valence Orbitals: NO/Cu(110) and NO/Cu(001). Springer Theses, 2017, , 95-105.	0.1	0
26	Role of valence states of adsorbates in inelastic electron tunneling spectroscopy: A study of nitric oxide on Cu(110) and Cu(001). Physical Review B, 2016, 94, .	3.2	12
27	Local electronic structure, work function, and line defect dynamics of ultrathin epitaxial ZnO layers on a Ag(1â€‰1â€‰1) surface. Journal of Physics Condensed Matter, 2016, 28, 494003.	1.8	14
28	Adsorption and reaction of H₂S on Cu(110) studied using scanning tunneling microscopy. Physical Chemistry Chemical Physics, 2016, 18, 4541-4546.	2.8	13
29	Room-Temperature Tip-Enhanced Raman Spectroscopy for Graphene Nanoribbons Under Ultrahigh-Vacuum Conditions. Hyomen Kagaku, 2016, 37, 310-314.	0.0	0
30	Real-space characterization of hydroxyphenyl porphyrin derivatives designed for single-molecule devices. RSC Advances, 2015, 5, 79152-79156.	3.6	4
31	Local Characterization of Ultrathin ZnO Layers on Ag(111) by Scanning Tunneling Microscopy and Atomic Force Microscopy. Journal of Physical Chemistry C, 2014, 118, 27428-27435.	3.1	37
32	Configuration change of NO on Cu(110) as a function of temperature. Journal of Chemical Physics, 2014, 140, 214706.	3.0	11
33	Formation of unique trimer of nitric oxide on Cu(111). Journal of Chemical Physics, 2014, 141, 134705.	3.0	17
34	Role of hydrogen bonding in the catalytic reduction of nitric oxide. Chemical Science, 2014, 5, 922-926.	7.4	21
35	Tip-Enhanced Raman Spectroscopy of Graphene Nanoribbons on Au(111). Journal of Physical Chemistry C, 2014, 118, 11806-11812.	3.1	55
36	Modifying current-voltage characteristics of a single molecule junction by isotope substitution: OHOD dimer on Cu(110). Physical Review B, 2012, 85, .	3.2	9

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37	Nature of hydrogen bonding in hydroxyl groups on a metal surface. Physical Review B, 2012, 86, .	3.2	14
38	Can Unpaired Electron of NO Survive on a Copper Surface?. Hyomen Kagaku, 2012, 33, 382-387.	0.0	0
39	H-atom relay reactions in real space. Nature Materials, 2012, 11, 167-172.	27.5	105
40	Imaging Covalent Bonding between Two NO Molecules on Cu(110). Physical Review Letters, 2011, 106, 156104.	7.8	33
41	Imaging sequential dehydrogenation of methanol on Cu(110) with a scanning tunneling microscope. Journal of Chemical Physics, 2011, 134, 174703.	3.0	11