

Akitoshi Shiotari

List of Publications by Year in descending order

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41
papers

814
citations

623734

14
h-index

501196

28
g-index

44
all docs

44
docs citations

44
times ranked

1212
citing authors

#	ARTICLE	IF	CITATIONS
1	H-atom relay reactions in real space. <i>Nature Materials</i> , 2012, 11, 167-172.	27.5	105
2	Ultrahigh-resolution imaging of water networks by atomic force microscopy. <i>Nature Communications</i> , 2017, 8, 14313.	12.8	102
3	Synthesis, Structures, and Properties of Core-Expanded Azacoronene Analogue: A Twisted π -System with Two N-Doped Heptagons. <i>Journal of the American Chemical Society</i> , 2018, 140, 10430-10434.	13.7	88
4	Strain-induced skeletal rearrangement of a polycyclic aromatic hydrocarbon on a copper surface. <i>Nature Communications</i> , 2017, 8, 16089.	12.8	57
5	Tip-Enhanced Raman Spectroscopy of Graphene Nanoribbons on Au(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 11806-11812.	3.1	55
6	Small bandgap in atomically precise 17-atom-wide armchair-edged graphene nanoribbons. <i>Communications Materials</i> , 2020, 1, .	6.9	40
7	Local Characterization of Ultrathin ZnO Layers on Ag(111) by Scanning Tunneling Microscopy and Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27428-27435.	3.1	37
8	Imaging Covalent Bonding between Two NO Molecules on Cu(110). <i>Physical Review Letters</i> , 2011, 106, 156104.	7.8	33
9	Role of hydrogen bonding in the catalytic reduction of nitric oxide. <i>Chemical Science</i> , 2014, 5, 922-926.	7.4	21
10	Torque-Induced Change in Configuration of a Single NO Molecule on Cu(110). <i>Physical Review Letters</i> , 2018, 121, 116101.	7.8	21
11	Formation of unique trimer of nitric oxide on Cu(111). <i>Journal of Chemical Physics</i> , 2014, 141, 134705.	3.0	17
12	Chiral Discrimination and Manipulation of Individual Heptahelicene Molecules on Cu(001) by Noncontact Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4997-5003.	3.1	17
13	Characterization of two- and one-dimensional water networks on Ni(111) via atomic force microscopy. <i>Physical Review Materials</i> , 2019, 3, .	2.4	16
14	Nature of hydrogen bonding in hydroxyl groups on a metal surface. <i>Physical Review B</i> , 2012, 86, .	3.2	14
15	Local electronic structure, work function, and line defect dynamics of ultrathin epitaxial ZnO layers on a Ag(111) surface. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 494003.	1.8	14
16	Realization of Spin-dependent Functionality by Covering a Metal Surface with a Single Layer of Molecules. <i>Nano Letters</i> , 2019, 19, 7119-7123.	9.1	14
17	Adsorption and valence electronic states of nitric oxide on metal surfaces. <i>Surface Science Reports</i> , 2021, 76, 100500.	7.2	14
18	Adsorption and reaction of H ₂ S on Cu(110) studied using scanning tunneling microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4541-4546.	2.8	13

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19	Quality control of on-surface-synthesised seven-atom wide armchair graphene nanoribbons. <i>Nanoscale</i> , 2020, 12, 6651-6657.	5.6	13
20	Role of Intermolecular Interactions in the Catalytic Reaction of Formic Acid on Cu(111). <i>Small</i> , 2021, 17, e2008010.	10.0	13
21	Role of valence states of adsorbates in inelastic electron tunneling spectroscopy: A study of nitric oxide on Cu(110) and Cu(001). <i>Physical Review B</i> , 2016, 94, .	3.2	12
22	Imaging sequential dehydrogenation of methanol on Cu(110) with a scanning tunneling microscope. <i>Journal of Chemical Physics</i> , 2011, 134, 174703.	3.0	11
23	Configuration change of NO on Cu(110) as a function of temperature. <i>Journal of Chemical Physics</i> , 2014, 140, 214706.	3.0	11
24	Intrinsic reconstruction of ice-I surfaces. <i>Science Advances</i> , 2020, 6, .	10.3	10
25	Modifying current-voltage characteristics of a single molecule junction by isotope substitution: OHOD dimer on Cu(110). <i>Physical Review B</i> , 2012, 85, .	3.2	9
26	Water-NO Complex Formation and Chain Growth on Cu(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 8894-8900.	3.1	9
27	Atomic-scale study of the formation of sodium-water complexes on Cu(110). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12210-12216.	2.8	8
28	Enhanced resolution imaging of ultrathin ZnO layers on Ag(111) by multiple hydrogen molecules in a scanning tunneling microscope junction. <i>Physical Review B</i> , 2018, 97, .	3.2	7
29	Manipulable Metal Catalyst for Nanographene Synthesis. <i>Nano Letters</i> , 2020, 20, 8339-8345.	9.1	6
30	A flat-lying dimer as a key intermediate in NO reduction on Cu(100). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16880-16887.	2.8	6
31	Mechanically induced single-molecule helicity switching of graphene-nanoribbon-fused helicene on Au(111). <i>Chemical Science</i> , 2021, 12, 13301-13306.	7.4	6
32	Real-space characterization of hydroxyphenyl porphyrin derivatives designed for single-molecule devices. <i>RSC Advances</i> , 2015, 5, 79152-79156.	3.6	4
33	Theoretical study on adsorption and reaction of polymeric formic acid on the Cu(111) surface. <i>Physical Review Materials</i> , 2021, 5, .	2.4	4
34	Detection of Spin Transfer from Metal to Molecule by Magnetoresistance Measurement. <i>Nano Letters</i> , 2020, 20, 75-80.	9.1	3
35	Structure of one-dimensional monolayer Si nanoribbons on Ag(111). <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
36	Can Unpaired Electron of NO Survive on a Copper Surface?. <i>Hyomen Kagaku</i> , 2012, 33, 382-387.	0.0	0

#	ARTICLE	IF	CITATIONS
37	Atomic Force Microscopy Observation of Water Networks at Ultrahigh Resolution. <i>Vacuum and Surface Science</i> , 2018, 61, 215-220.	0.1	0
38	Room-Temperature Tip-Enhanced Raman Spectroscopy for Graphene Nanoribbons Under Ultrahigh-Vacuum Conditions. <i>Hyomen Kagaku</i> , 2016, 37, 310-314.	0.0	0
39	NO Reduction by Co-adsorbed Water Molecules on Cu(110). <i>Springer Theses</i> , 2017, , 63-72.	0.1	0
40	Symmetry Correlation between Molecular Vibrations and Valence Orbitals: NO/Cu(110) and NO/Cu(001). <i>Springer Theses</i> , 2017, , 95-105.	0.1	0
41	Inelastic Electron Tunneling Spectroscopy. , 2018, , 283-288.		0