

Mitsunori Kurahashi

List of Publications by Year in descending order

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papers

470
citations

777949

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docs citations

53
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a Half-Metallic Interface State for Pyridine-Adsorbed H/Fe ₃ O ₄ (100). Journal of Physical Chemistry Letters, 2021, 12, 8489-8494.	2.1	5
2	Use of hexapole magnet and spin flipper combined with time-of-flight analysis to characterize state-selected paramagnetic atomic/molecular beams. Review of Scientific Instruments, 2021, 92, 013201.	0.6	4
3	Report on the 12th Kanto Chapter Seminar "Plasma-induced Interface Reaction and Surface Science". Vacuum and Surface Science, 2020, 63, 255-255.	0.0	0
4	On the Special Issue of "Plasma-induced Interface Reaction and Surface Science". Vacuum and Surface Science, 2020, 63, 613-613.	0.0	0
5	Chemisorption of aligned O ₂ on Ag(110). Journal of Chemical Physics, 2019, 151, 084702.	1.2	2
6	Steps on Pt stereodynamically filter sticking of O ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13862-13866.	3.3	21
7	Alignment-resolved O_2 scattering from highly oriented pyrolytic graphite and LiF(001) surfaces. Physical Review B, 2019, 99, .	1.1	9
8	Dynamics of O ₂ Chemisorption on a Flat Platinum Surface Probed by an Alignment-Controlled O ₂ Beam. Angewandte Chemie - International Edition, 2017, 56, 4174-4177.	7.2	10
9	Dynamics of O ₂ Chemisorption on a Flat Platinum Surface Probed by an Alignment-Controlled O ₂ Beam. Angewandte Chemie, 2017, 129, 4238-4241.	1.6	0
10	Steric effect in CO oxidation on Pt(111). Journal of Chemical Physics, 2017, 147, 194705.	1.2	4
11	Development of a Hyperthermal State-selected Molecular Oxygen Beam and Its Application to the Study of O ₂ Adsorption on Pt(111). Journal of the Vacuum Society of Japan, 2017, 60, 307-312.	0.3	0
12	Oxygen adsorption on surfaces studied by a spin- and alignment-controlled O ₂ beam. Progress in Surface Science, 2016, 91, 29-55.	3.8	29
13	Stereodynamics in O ₂ Adsorption on Si(100). Journal of the Vacuum Society of Japan, 2015, 58, 13-19.	0.3	1
14	Spin and Alignment effect in Oxygen Chemisorption on Ni(111): A State-selected O ₂ Beam Study. Hyomen Kagaku, 2015, 36, 608-613.	0.0	0
15	Spin Correlation in O_2 Chemisorption on Ni(111). Physical Review Letters, 2015, 114, 016101.	2.9	19
16	Communication: Fully alignment-specified O ₂ chemisorption on vicinal Si(100). Journal of Chemical Physics, 2014, 140, 031102.	1.2	7
17	Spin polarization of single-layer graphene epitaxially grown on Ni(111) thin film. Carbon, 2013, 61, 134-139.	5.4	16
18	Steric Effect in O_2 Sticking on Al(111): Preference for Parallel Geometry. Physical Review Letters, 2013, 110, 246102.	2.9	43

#	ARTICLE	IF	CITATIONS
19	Huge steric effects in surface oxidation of Si(100). <i>Physical Review B</i> , 2012, 85, .	1.1	18
20	Selection of a Single Spin-rotational State of Molecular Oxygen by a Hexapole Magnet. <i>Journal of the Vacuum Society of Japan</i> , 2010, 53, 681-685.	0.3	0
21	Production of a single spin-rotational state $[(J,M)=(2,2)]$ selected molecular oxygen ($1\text{3g}\hat{\alpha}$) beam by a hexapole magnet. <i>Review of Scientific Instruments</i> , 2009, 80, 083103.	0.6	24
22	Surface Magnetization Measurement with a Spin Polarized Metastable Atom Beam under High Magnetic Fields. <i>Journal of the Vacuum Society of Japan</i> , 2009, 52, 601-605.	0.3	2
23	State selection of molecular oxygen $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:multiscripts} \rangle \langle \text{mml:mi} \rangle \hat{\alpha} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{g} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\alpha} \langle \text{mml:mi} \rangle$ hexapole magnet and the inversion of population for the spin-rotational states. <i>Physical Review A</i> , 2008, 78, .	1.0	10
24	Surface magnetization measurement with a spin-polarized metastable He beam under high magnetic fields of $0\hat{\alpha}\text{€}5\text{T}$. <i>Review of Scientific Instruments</i> , 2008, 79, 073902.	0.6	18
25	Magnetization measurement of Pd(100) using a spin-polarized metastable He beam and an electromagnet of 1.8kOe. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2180-2182.	1.0	0
26	Microfabrication of Silicon Using Self-Assembled Monolayer Resist and Metastable Helium Beam. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8020-8023.	0.8	5
27	Magnetization hysteresis loop measurement with a spin-polarized metastable He* beam and an electromagnet of 1.8 kOe. <i>Review of Scientific Instruments</i> , 2006, 77, 023904.	0.6	5
28	Effects of adsorbate-induced states on the metastable He atom scattering from water- and benzene-adsorbed Cu(100). <i>Surface Science</i> , 2005, 590, 21-30.	0.8	6
29	$\hat{\alpha}\text{€}5\text{T}$. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2005, 48, 426-431.	0.2	0
30	Study on Magnetic Surface by Spin-Polarized Metastable-atom Deexcitation Spectroscopy. <i>Hyomen Kagaku</i> , 2005, 26, 151-157.	0.0	2
31	Spin polarization of Na atoms on Fe(001): comparison of the spin-polarized metastable-atom deexcitation spectroscopy (SPMDS) measurements and electronic structure calculation. <i>Surface Science</i> , 2004, 548, 269-275.	0.8	4
32	Temperature dependence of the magnetization of Fe films on Cu(100) studied by SPMDS and SMOKE: effects of relaxation. <i>Surface Science</i> , 2004, 552, 193-198.	0.8	6
33	Characterization of nanoscale patterns prepared by metastable helium atom beam and butanethiol self-assembled monolayers. <i>Thin Solid Films</i> , 2003, 438-439, 128-131.	0.8	6
34	Metastable-atom-stimulated desorption from hydrogen-passivated silicon surfaces. <i>Surface Science</i> , 2003, 528, 91-96.	0.8	5
35	Metastable-Atom-Induced Dissociation of Dodecanethiolate Self-Assembled Monolayers on Gold Substrates. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4107-4110.	1.2	9
36	Electronic structure of pentacene adsorbates on Au(111) surfaces. <i>Applied Physics Letters</i> , 2003, 83, 4342-4344.	1.5	19

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37	A Spin-Polarized Metastable-Atom Deexcitation Spectroscopy (SPMDS) Study on Surface Curie Temperature of Fe Films on Cu(100). Japanese Journal of Applied Physics, 2003, 42, 4698-4700.	0.8	7
38	Microlithography Using Metastable Helium Atoms: Patterning of Gold Film Coated with Dodecanethiol Self-Assembled Monolayers on Mica. Japanese Journal of Applied Physics, 2003, 42, 4767-4769.	0.8	7
39	Mask technologies for metastable atom lithography: photomask and physical mask. , 2003, 5130, 1055.		0
40	Influence of submonolayers of sodium on the spin polarization of iron outmost surfaces. Journal of Applied Physics, 2003, 93, 8734-8736.	1.1	4
41	Spin-Polarized Metastable Deexcitation Spectroscopy Study of Potassium and Oxygen Adsorbed Iron Surfaces. Japanese Journal of Applied Physics, 2002, 41, 4675-4678.	0.8	4
42	Spin Polarization in Molecular Orbitals of Copper ²⁺ Phthalocyanine Deposited on a Magnetized Fe(100) Substrate. Journal of Physical Chemistry B, 2002, 106, 7643-7646.	1.2	27
43	Electron emission from Na/Fe(100) surfaces by deexcitation of spin-polarized helium metastable atoms. AIP Conference Proceedings, 2001, , .	0.3	0
44	Metastable helium atom scattering from Ni(110) surface. Applied Surface Science, 2001, 169-170, 241-245.	3.1	2
45	Fast helium atom beams generated by pulsing the nozzle-skimmer discharge of a thermal metastable helium atom source. Nuclear Instruments & Methods in Physics Research B, 2001, 173, 516-522.	0.6	6
46	Metastable Helium Atom Stimulated Desorption of H ⁺ Ion. Physical Review Letters, 2000, 84, 4725-4728.	2.9	17
47	Observation of H ⁺ desorption stimulated by the impact of metastable helium atoms. Surface Science, 2000, 454-456, 300-304.	0.8	5
48	Metastable deexcitation spectroscopy study of oxygen adsorption on a polycrystalline titanium surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 1047-1052.	0.9	4
49	A metastable de-excitation spectroscopy (MDS) study on oxygen adsorption on a polycrystalline zirconium surface. Surface Science, 1999, 420, 259-268.	0.8	31
50	First-principles calculation of the longitudinal phonon in the surface-normal direction of a zirconium(0001) slab: Localization mode at the subsurface. Physical Review B, 1996, 53, 13772-13776.	1.1	7
51	Auger electron, electron energy loss, secondary electron emission and secondary ion mass spectroscopic studies on the oxidation of hafnium at room temperature. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3611.	1.7	5
52	Luminescence properties of liposomes incorporating two kinds of cyanine dyes: excitation energy transfer between J-aggregates. Langmuir, 1993, 9, 3395-3401.	1.6	27
53	Excitation energy transfer between J-aggregates of cyanine dyes in Langmuir-Blodgett films and liposomes. Thin Solid Films, 1992, 210-211, 172-174.	0.8	8