

Kousuke Moritani

List of Publications by Year in descending order

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66
papers

874
citations

471509

17
h-index

526287

27
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68
all docs

68
docs citations

68
times ranked

650
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix-free detection of intact ions from proteins in argon-cluster secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 648-652.	1.5	78
2	Dissociative adsorption of hydrogen on thin Au films grown on Ir(111). <i>Surface Science</i> , 2003, 523, 218-230.	1.9	59
3	Actively controlled oxidation of Cu(100) with hyperthermal O ₂ molecular beam. <i>Journal of Chemical Physics</i> , 2003, 119, 6994-6997.	3.0	46
4	X-ray photoemission study of the temperature-dependent CuO formation on Cu(110) using an energetic O ₂ molecular beam. <i>Physical Review B</i> , 2007, 75, .	3.2	39
5	Actuation of a suspended nano-graphene sheet by impact with an argon cluster. <i>Nanotechnology</i> , 2008, 19, 505501.	2.6	38
6	Extremely low-energy projectiles for SIMS using size-selected gas cluster ions. <i>Applied Surface Science</i> , 2008, 255, 948-950.	6.1	37
7	Energy-dependent fragmentation of polystyrene molecule using size-selected Ar gas cluster ion beam projectile. <i>Surface and Interface Analysis</i> , 2011, 43, 241-244.	1.8	33
8	Soft-sputtering of insulin films in argon-cluster secondary ion mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1070-1074.	1.5	32
9	Reconstruction of Cu(111) Induced by a Hyperthermal Oxygen Molecular Beam. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8662-8667.	3.1	31
10	Site-Specific Fragmentation of Polystyrene Molecule Using Size-Selected Ar Gas Cluster Ion Beam. <i>Applied Physics Express</i> , 0, 2, 046001.	2.4	29
11	Protective layer formation during oxidation of Cu ₃ Au(100) using hyperthermal O ₂ molecular beam. <i>Applied Physics Letters</i> , 2006, 89, 201912.	3.3	28
12	Photoemission study of the translational energy induced oxidation processes on Cu(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1625-1630.	2.1	27
13	Molecular dynamics simulations of nanopore processing in a graphene sheet by using gas cluster ion beam. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 787-794.	2.3	27
14	Comparative study of oxidation on Cu and Cu ₃ Au surfaces with a hyperthermal O ₂ molecular beam. <i>Surface Science</i> , 2006, 600, 4228-4232.	1.9	23
15	Preferential Sputtering of DNA Molecules on a Graphite Surface by Ar Cluster Ion Beam. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11357-11362.	3.1	23
16	Mass spectrometric analysis of the dissociation of argon cluster ions in collision with several kinds of metal. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2141-2146.	1.5	19
17	Hydrogen adsorption and reaction on the Ir(100)-(1 \times 5) surface. <i>Surface Science</i> , 2000, 445, 315-326.	1.9	18
18	Unravelling the Role of Steps in Cu ₂ O Formation via Hyperthermal O ₂ Adsorption at Cu(110). <i>Journal of Physical Chemistry C</i> , 2007, 111, 17340-17345.	3.1	18

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19	Enhanced surface sensitivity in secondary ion mass spectrometric analysis of organic thin films using size-selected Ar gas-cluster ion projectiles. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1405-1410.	1.5	18
20	Hydrogen-exchange reactions via hot hydrogen atoms produced in the dissociation process of molecular hydrogen on Ir{111}. <i>Journal of Chemical Physics</i> , 2001, 115, 9947-9959.	3.0	17
21	Trapping hydrogen with a bimetallic interface. <i>Physical Review B</i> , 2005, 71, .	3.2	17
22	Tuning of dissociative-adsorption processes on Cu{100} by controlling the kinetic energy of the impinging O ₂ molecule. <i>Chemical Physics</i> , 2004, 301, 315-320.	1.9	16
23	Effects of Vibrational and Rotational Excitations on the Dissociative Adsorption of O ₂ on Cu Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9961-9967.	3.1	16
24	Hot-atom mechanism in hydrogen exchange reaction on the Ir{100} surface. <i>Chemical Physics Letters</i> , 2000, 323, 586-593.	2.6	14
25	New Development of Ultrahigh-Vacuum Oriented-Molecular-Beam Machine and Its Application to Chemical Reactions on Silicon Surface. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 8580-8589.	1.5	14
26	Secondary ion emission from insulin film bombarded with methane and noble gas cluster ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 315, 300-303.	1.4	14
27	Kinetics of Oxygen Adsorption and Initial Oxidation on Cu(110) by Hyperthermal Oxygen Molecular Beams. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15217-15222.	2.5	11
28	High-resolution Electron Energy Loss Spectroscopy Study of O-Cu(410). <i>Journal of Physical Chemistry B</i> , 2007, 111, 1679-1683.	2.6	10
29	Real time observation of initial thermal oxidation using O ₂ gas on Si(0 0 1) surface by means of synchrotron radiation Si-2p photoemission spectroscopy. <i>Applied Surface Science</i> , 2003, 216, 388-394.	6.1	9
30	Pressure and temperature dependence of cuprous oxide nucleation on Cu(410). <i>Journal of Physics Condensed Matter</i> , 2007, 19, 305022.	1.8	9
31	Coexistence of passive and active oxidation for O ₂ /Si(0 0 1) system observed by SiO mass spectrometry and synchrotron radiation photoemission spectroscopy. <i>Applied Surface Science</i> , 2003, 216, 8-14.	6.1	7
32	Real-Time Monitoring of Initial Thermal Oxidation on Si(001) Surfaces by Synchrotron Radiation Photoemission Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3976-3982.	1.5	7
33	Real-time monitoring of oxidation processes on Si(001) surface using O ₂ gas under 1000 K by synchrotron radiation photoemission spectroscopy. <i>Surface Science</i> , 2004, 566-568, 1124-1129.	1.9	7
34	New Oriented-Molecular-Beam Machine for Surface Stereochemistry with X-ray Photoemission Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 3686-3691.	1.5	7
35	A Nondestructive Method for Probing Mechanical Properties of a Thin Film Using Impacts with Nanoclusters. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650041.	2.2	7
36	New Design and Development of an Oriented-Molecular-Beam Machine Compatible with Ultra-High-Vacuum. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2003, 46, 692-697.	0.2	7

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37	SiO Mass Spectrometry and Si-2p Photoemission Spectroscopy for the Study of Oxidation Reaction Dynamics of Si(001) Surface by Supersonic O ₂ Molecular Beams under 1000 K. Japanese Journal of Applied Physics, 2003, 42, 4671-4675.	1.5	6
38	Mechanisms of concurrent SiO desorption with oxide layer formation at Si(001) surface. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2008, 164, 60-68.	0.4	6
39	Evaluation of immobilized polypeptides with different C-terminal residues using argon gas cluster SIMS. Surface and Interface Analysis, 2011, 43, 344-349.	1.8	6
40	Initial sticking probability of O ₂ on Cu(410). Surface Science, 2008, 602, 2689-2692.	1.9	5
41	Highly sensitive analysis of surface contaminants by Ar gas cluster SIMS. Surface and Interface Analysis, 2013, 45, 143-146.	1.8	5
42	Method to measure the size distribution of massive cluster ion beams using two rotating electric fields. Nuclear Instruments & Methods in Physics Research B, 2018, 432, 1-4.	1.4	5
43	Translational energy induced reconstruction and absorption in the oxidation processes of Cu{111}. Thin Solid Films, 2004, 464-465, 48-51.	1.8	4
44	Dissociative Adsorption of Nitric Oxide on Si(111)-(7 \times 7) Surface. Japanese Journal of Applied Physics, 2008, 47, 1672-1676.	1.5	4
45	Argon Cluster Ions Cleaning and Probing a Graphene Layer on Copper. E-Journal of Surface Science and Nanotechnology, 2015, 13, 167-173.	0.4	4
46	New design and development of size-selected gas cluster SIMS. Electrical Engineering in Japan (English) Tj ETQq0,0,0 rgBT /Overlock 1	0.4	3
47	Weighing a Single Brownian Particle in a Droplet. Journal of the Physical Society of Japan, 2015, 84, 084001.	1.6	3
48	Mean distance of two Brownian particles trapped in a suspended droplet and its dependence on the Debye length. Physica A: Statistical Mechanics and Its Applications, 2017, 466, 511-520.	2.6	3
49	Real-Time Observation of Initial Stage on Si(001) Oxidation Studied by O-1s Photoemission Spectroscopy Using Synchrotron Radiation. Japanese Journal of Applied Physics, 2003, 42, 4676-4679.	1.5	1
50	Why the Great Buddha of Nara in Japan looks so younger?. Rendiconti Lincei, 2012, 23, 187-194.	2.2	1
51	Roughness Dependence of the Casimir Force between Fractal Surfaces. E-Journal of Surface Science and Nanotechnology, 2014, 12, 313-321.	0.4	1
52	Large Molecular Cluster Formation from Liquid Materials and Its Application to ToF-SIMS. Quantum Beam Science, 2021, 5, 10.	1.2	1
53	Enhancement of Intact Ion Yields in ToF-SIMS Using Molecular Cluster Ion Beams. Vacuum and Surface Science, 2018, 61, 452-457.	0.1	1
54	Fragment Distribution of Polystyrene by QMD Method Using the Model Hexamer. Journal of Surface Analysis (Online), 2010, 17, 15-27.	0.1	1

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55	Stable Position of a Micro Torsion Balance under the Casimir Force. E-Journal of Surface Science and Nanotechnology, 2013, 11, 60-64.	0.4	1
56	Converging of Argon Cluster Ion Beams with a Glass Capillary. Journal of the Vacuum Society of Japan, 2012, 55, 118-120.	0.3	0
57	Surface Sensitive Analysis of Organic Compound using Size-selected Ar Gas Cluster SIMS. Journal of the Vacuum Society of Japan, 2014, 57, 173-178.	0.3	0
58	Structural and dynamical properties of the junction between a single carbon nanotube and a graphene nanoribbon. Japanese Journal of Applied Physics, 2014, 53, 045103.	1.5	0
59	Mass measurement of single nanoparticle by trapping in water droplet. , 2016, , .		0
60	A New Method for Measuring Mechanical Properties of Surface by Using Dissociative Ion Scattering. Journal of the Japan Society for Precision Engineering, 2016, 82, 335-339.	0.1	0
61	Measurement of Temporal Change in Shape of a Suspended Droplet Containing Particles Using Light Scattering. Journal of the Physical Society of Japan, 2020, 89, 034802.	1.6	0
62	Real-time Observation of Initial Stages of Thermal Oxidation on Si(001) Surface by using Synchrotron Radiation Photoemission Spectroscopy. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 424-428.	0.2	0
63	Chemical Reaction Dynamics in Oxidation Processes of Si (001) Surface at High Temperature. Shinku/Journal of the Vacuum Society of Japan, 2004, 47, 301-307.	0.2	0
64	Initial Adsorption Dynamics of O ₂ on Si(111)-7*7 Surface at Room Temperature. Hyomen Kagaku, 2006, 27, 449-454.	0.0	0
65	Translational Kinetic Energy Induced Oxidation on Ti(0001) Surfaces Using a Supersonic O ₂ Beam. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 140-145.	0.2	0
66	Trapping of a Conducting Nanoparticle by Long-Range Surface Forces. E-Journal of Surface Science and Nanotechnology, 2011, 9, 301-305.	0.4	0