Kousuke Moritani

List of Publications by Year
in descending order

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66	874	471509	526287
papers	citations	17	27
		h-index	g-index

68	68	68	650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large Molecular Cluster Formation from Liquid Materials and Its Application to ToF-SIMS. Quantum Beam Science, 2021, 5, 10.	1.2	1
2	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
3	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
4	Enhancement of Intact Ion Yields in ToF-SIMS Using Molecular Cluster Ion Beams. Vacuum and Surface Science, 2018, 61, 452-457.	0.1	1
5	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
6	Mass measurement of single nanoparticle by trapping in water droplet. , 2016, , .		0
7	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
8	A Nondestructive Method for Probing Mechanical Properties of a Thin Film Using Impacts with Nanoclusters. International Journal of Applied Mechanics, 2016, 08, 1650041.	2.2	7
9	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
10	Weighing a Single Brownian Particle in a Droplet. Journal of the Physical Society of Japan, 2015, 84, 084001.	1.6	3
11	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
12	Roughness Dependence of the Casimir Force between Fractal Surfaces. E-Journal of Surface Science and Nanotechnology, 2014, 12, 313-321.	0.4	1
13	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
14	Mass spectrometric analysis of the dissociation of argon cluster ions in collision with several kinds of metal. Rapid Communications in Mass Spectrometry, 2014, 28, 2141-2146.	1.5	19
15	Highly sensitive analysis of surface contaminants by Ar gas cluster SIMS. Surface and Interface Analysis, 2013, 45, 143-146.	1.8	5
16	Secondary ion emission from insulin film bombarded with methane and noble gas cluster ion beams. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 300-303.	1.4	14
17	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
18	Converging of Argon Cluster Ion Beams with a Glass Capillary. Journal of the Vacuum Society of Japan, 2012, 55, 118-120.	0.3	0

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19	Why the Great Buddha of Nara in Japan looks so younger?. Rendiconti Lincei, 2012, 23, 187-194.	2.2	1
20	Softâ€sputtering of insulin films in argonâ€cluster secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 1070-1074.	1.5	32
21	Energyâ€dependent fragmentation of polystyrene molecule using sizeâ€selected Ar gas cluster ion beam projectile. Surface and Interface Analysis, 2011, 43, 241-244.	1.8	33
22	Evaluation of immobilized polypeptides with different Câ€terminal residues using argon gasâ€cluster SIMS. Surface and Interface Analysis, 2011, 43, 344-349.	1.8	6
23	New design and development of sizeâ€selected gas cluster SIMS. Electrical Engineering in Japan (English) Tj ETQq1 1 0.784314 rgBT /	0.4	3
24	Trapping of a Conducting Nanoparticle by Long-Range Surface Forces. E-Journal of Surface Science and Nanotechnology, 2011, 9, 301-305.	0.4	0
25	Molecular dynamics simulations of nanopore processing inÂaÂgraphene sheet by using gas cluster ion beam. Applied Physics A: Materials Science and Processing, 2010, 98, 787-794.	2.3	27
26	Enhanced surface sensitivity in secondary ion mass spectrometric analysis of organic thin films using sizeâ€selected Ar gasâ€cluster ion projectiles. Rapid Communications in Mass Spectrometry, 2010, 24, 1405-1410.	1.5	18
27	Fragment Distribution of Polystyrene by QMD Method Using the Model Hexamer. Journal of Surface Analysis (Online), 2010, 17, 15-27.	0.1	1
28	Matrixâ€free detection of intact ions from proteins in argonâ€cluster secondary ion mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 648-652.	1.5	78
29	Kinetics of Oxygen Adsorption and Initial Oxidation on Cu(110) by Hyperthermal Oxygen Molecular Beams. Journal of Physical Chemistry A, 2009, 113, 15217-15222.	2.5	11
30	Initial sticking probability of O2 on Cu(410). Surface Science, 2008, 602, 2689-2692.	1.9	5
31	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
32	Extremely low-energy projectiles for SIMS using size-selected gas cluster ions. Applied Surface Science, 2008, 255, 948-950.	6.1	37
33	Actuation of a suspended nano-graphene sheet by impact with an argon cluster. Nanotechnology, 2008, 19, 505501.	2.6	38
34	Reconstruction of Cu(111) Induced by a Hyperthermal Oxygen Molecular Beam. Journal of Physical Chemistry C, 2008, 112, 8662-8667.	3.1	31
35	Preferential Sputtering of DNA Molecules on a Graphite Surface by Ar Cluster Ion Beam. Journal of Physical Chemistry C, 2008, 112, 11357-11362.	3.1	23
36	Dissociative Adsorption of Nitric Oxide on Si(111)-(7Ã—7) Surface. Japanese Journal of Applied Physics, 2008, 47, 1672-1676.	1.5	4

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37	New Oriented-Molecular-Beam Machine for Surface Stereochemistry with X-ray Photoemission Spectroscopy. Japanese Journal of Applied Physics, 2008, 47, 3686-3691.	1.5	7
38	X-ray photoemission study of the temperature-dependent CuO formation on Cu(410) using an energeticO2molecular beam. Physical Review B, 2007, 75, .	3.2	39
39	Effects of Vibrational and Rotational Excitations on the Dissociative Adsorption of O2on Cu Surfaces. Journal of Physical Chemistry C, 2007, 111, 9961-9967.	3.1	16
40	High-resolution Electron Energy Loss Spectroscopy Study of O-Cu(410). Journal of Physical Chemistry B, 2007, 111, 1679-1683.	2.6	10
41	Unravelling the Role of Steps in Cu₂O Formation via Hyperthermal O₂ Adsorption at Cu(410). Journal of Physical Chemistry C, 2007, 111, 17340-17345.	3.1	18
42	Pressure and temperature dependence of cuprous oxide nucleation on Cu(410). Journal of Physics Condensed Matter, 2007, 19, 305022.	1.8	9
43	Translational Kinetic Energy Induced Oxidation on Ti(0001) Surfaces Using a Supersonic O₂ Beam. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 140-145.	0.2	0
44	Comparative study of oxidation on Cu and Cu3Au surfaces with a hyperthermal O2 molecular beam. Surface Science, 2006, 600, 4228-4232.	1.9	23
45	Protective layer formation during oxidation of Cu3Au(100) using hyperthermal O2 molecular beam. Applied Physics Letters, 2006, 89, 201912.	3.3	28
46	Initial Adsorption Dynamics of O2 on Si(111)-7*7 Surface at Room Temperature. Hyomen Kagaku, 2006, 27, 449-454.	0.0	0
47	New Development of Ultrahigh-Vacuum Oriented-Molecular-Beam Machine and Its Application to Chemical Reactions on Silicon Surface. Japanese Journal of Applied Physics, 2005, 44, 8580-8589.	1.5	14
48	Trapping hydrogen with a bimetallic interface. Physical Review B, 2005, 71, .	3.2	17
49	Photoemission study of the translational energy induced oxidation processes on Cu(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1625-1630.	2.1	27
50	Translational energy induced reconstruction and absorption in the oxidation processes of Cu{111}. Thin Solid Films, 2004, 464-465, 48-51.	1.8	4
51	Real-time monitoring of oxidation processes on Si(001) surface using O2 gas under 1000 K by synchrotron radiation photoemission spectroscopy. Surface Science, 2004, 566-568, 1124-1129.	1.9	7
52	Tuning of dissociative-adsorption processes on Cu{100} by controlling the kinetic energy of the impinging O2 molecule. Chemical Physics, 2004, 301, 315-320.	1.9	16
53	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
54	Dissociative adsorption of hydrogen on thin Au films grown on Ir{}. Surface Science, 2003, 523, 218-230.	1.9	59

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55	Coexistence of passive and active oxidation for O2/Si(0 0 1) system observed by SiO mass spectrometry and synchrotron radiation photoemission spectroscopy. Applied Surface Science, 2003, 216, 8-14.	6.1	7
56	Real time observation of initial thermal oxidation using O2 gas on Si(0 0 1) surface by means of synchrotron radiation Si-2p photoemission spectroscopy. Applied Surface Science, 2003, 216, 388-394.	6.1	9
57	Actively controlled oxidation of Cu{100} with hyperthermal O2 molecular beam. Journal of Chemical Physics, 2003, 119, 6994-6997.	3.0	46
58	Real-Time Monitoring of Initial Thermal Oxidation on Si(001) Surfaces by Synchrotron Radiation Photoemission Spectroscopy. Japanese Journal of Applied Physics, 2003, 42, 3976-3982.	1.5	7
59	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
60	SiO Mass Spectrometry and Si-2p Photoemission Spectroscopy for the Study of Oxidation Reaction Dynamics of Si(001) Surface by Supersonic O2Molecular Beams under 1000 K. Japanese Journal of Applied Physics, 2003, 42, 4671-4675.	1.5	6
61	New Design and Development of an Oriented-Molecular-Beam Machine Compatible with Ultra-High-Vacuum. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 692-697.	0.2	7
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	Hydrogen-exchange reactions via hot hydrogen atoms produced in the dissociation process of molecular hydrogen on Ir{111}. Journal of Chemical Physics, 2001, 115, 9947-9959.	3.0	17
64	Hot-atom mechanism in hydrogen exchange reaction on the Ir{100} surface. Chemical Physics Letters, 2000, 323, 586-593.	2.6	14
65	Hydrogen adsorption and reaction on the Ir{100}-(1Ã—5) surface. Surface Science, 2000, 445, 315-326.	1.9	18
66	Site-Specific Fragmentation of Polystyrene Molecule Using Size-Selected Ar Gas Cluster Ion Beam. Applied Physics Express, 0, 2, 046001.	2.4	29