Naoya Miyauchi

List of Publications by Year
in descending order

27 papers	503 citations	840776 11 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	609 citing authors

#	Article	IF	Citations
1	Formation of hydrogen peroxide and water from the reaction of cold hydrogen atoms with solid oxygen at 10K. Chemical Physics Letters, 2008, 456, 27-30.	2.6	158
2	FORMATION OF COMPACT AMORPHOUS H₂O ICE BY CODEPOSITION OF HYDROGEN ATOMS WITH OXYGEN MOLECULES ON GRAIN SURFACES. Astrophysical Journal, 2009, 701, 464-470.	4.5	115
3	Microcrystal delivery by pulsed liquid droplet for serial femtosecond crystallography. Acta Crystallographica Section D: Structural Biology, 2016, 72, 520-523.	2.3	41
4	Nanosecond pumpâ€“probe device for time-resolved serial femtosecond crystallography developed at SACLA. Journal of Synchrotron Radiation, 2017, 24, 1086-1091.	2.4	28
5	Structural effects of ice grain surfaces on the hydrogenation of CO at low temperatures. Chemical Physics Letters, 2008, 456, 36-40.	2.6	24
6	Three-photon double ionization of Ar studied by photoelectron spectroscopy using an extreme ultraviolet free-electron laser: manifestation of resonance states of an intermediate Ar⁺ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 071001.	1.5	20
7	2D mapping of hydrogen permeation from a stainless steel membrane. Scripta Materialia, 2018, 144, 69-73.	5.2	17
8	Model of local hydrogen permeability in stainless steel with twoÂcoexisting structures. Scientific Reports, 2021, 11, 8553.	3.3	15
9	C 1s photoelectron angular distributions from fixed-in-space CO molecules in the high-energy continuum â‰¥50 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194007.	1.5	13
10	Recoil frame photoelectron angular distributions of BF3: A sensitive probe of the shape resonance in the F 1s continuum. Journal of Chemical Physics, 2012, 136, 074305.	3.0	11
11	Visualization of local hydrogen diffusion in stainless steel using time resolved electron stimulated desorption. Applied Surface Science, 2020, 527, 146710.	6.1	11
12	Visualization and characterization of localized outgassing position on surface-treated specimens: Chromium oxide layer on stainless steel. Applied Surface Science, 2019, 492, 280-284.	6.1	9
13	Electron Stimulated Desorption Measurement of Permeated Hydrogen through Stainless Steel Membrane. Journal of the Vacuum Society of Japan, 2015, 58, 387-391.	0.3	6
14	Low Outgas Surface Treatment of Stainless Steel 316L Using Segregated Chromium Oxide Layer. Vacuum and Surface Science, 2018, 61, 675-680.	0.1	6
15	Fusion data analysis of imaging data of hydrogen-permeated steel obtained by complementary methods. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 034007.	1.2	6
16	Observation of Metal Surface by Operando Hydrogen Microscope. Vacuum and Surface Science, 2019, 62, 27-32.	0.1	5
17	Recoil frame photoelectron angular distributions in core O 1s ionization of H2CO. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194004.	1.5	4
18	2-step reaction kinetics for hydrogen absorption into bulk material via dissociative adsorption on the surface. Scientific Reports, 2021, 11, 18836.	3.3	4

#	Article	IF	Citations
19	ã,¹ãƒ†ãƒ³ãƒ¬ã,¹é‹¼ã,'é€éŽã•—ãŸé‡æ°´ç´ ã®æŒ™å‹•è¦³å¯Ÿ. Vacuum and Surface Science, 2019, 62, 635-640.	0.1	3
20	Nonenergetic reactions between atomic hydrogen and molecules on interstellar grain surfaces. Journal of Physics: Conference Series, 2009, 194, 012044.	0.4	2
21	Evaluation of Surface Damage of Pd Using Cross-Sectional Electron Backscatter Diffraction Analysis. Materials Transactions, 2021, 62, 41-47.	1.2	2
22	1. Formation of interstellar ice by low temperature surface atomic reactions. Cryobiology, 2009, 59, 370.	0.7	1
23	Kinetic Energy Measurements of Fragment Ions with a Time-of-Flight Mass Spectrometer.. Journal of the Mass Spectrometry Society of Japan, 2003, 51, 72-76.	0.1	1
24	Multimodal Data Analysis for Evaluating Hydrogen Diffusion in Steel. Vacuum and Surface Science, 2021, 64, 472-475.	0.1	1
25	Development of a highly-sensitive Penning ionization electron spectrometer using the magnetic bottle effect. AIP Conference Proceedings, 2016, , .	0.4	0
26	Electron-Stimulated Desorption. , 2018, , 143-147.		0
27	Proposal of Diffusion Model Obtained from Time-resolved Hydrogen Permeation Measurement with Operando Hydrogen Microscopes. Vacuum and Surface Science, 2021, 64, 568-574.	0.1	0