

Publications 2012-2011

2012

1. M. Hada, D. Zhang, A. Casandruc, R.J.D. Miller, Y. Hontani, J. Matsuo, R.E. Marvel and R.F. Haglund Jr.
"Hot electron injection driven phase transitions"
Physical Review B 86, 134101 (2012, Oct.) (doi:10.1103/PhysRevB.86.134101)
2. T. Aoki, T. Seki and J. Matsuo
"Molecular dynamics study of crater formation by core-shell structured cluster impact"
Nuclear Instruments and Methods in Physics Research B, 282, pp.29-32 (2012, Jul.)
(doi:10.1016/j.nimb.2011.08.061)
3. Yasuyuki Yamamoto, Kazuya Ichiki, Toshio Seki, Takaaki Aoki and Jiro Matsuo
"Ion-induced damage evaluation with Ar cluster ion beams"
Surface and Interface Analysis Vol. 45 pp.167-170 (2012, Jun.) (doi: 10.1002/sia.5014)
4. M. Hada and J. Matsuo
"Ultrafast X-ray sources for time-resolved measurements"
X-Ray Spectrom., 41, pp.188-194 (2012, Jun.) (doi: 10.1002/xrs.2401)
5. J. Matsuo, K. Ichiki, Y. Yamamoto, T. Seki and T. Aoki
"Depth profiling analysis of damaged arginine films with Ar cluster ion beams"
Surface and Interface Analysis Vol. 44 [6], pp.729-731 (2012, Jun.) (doi: 10.1002/sia.4856)
6. Hubert Gnaser, Kazuya Ichiki and Jiro Matsuo
"Sputtered ion emission under size-selected Arn+ cluster ion bombardment"
Surface and Interface Analysis Vol. 45 pp. 138-142 (2012, Feb.) (doi: 10.1002/sia.4914)

2011

1. G. Moriena, M. Hada, G. Sciaiani, J. Matsuo and R.J.D. Miller
"Femtosecond electron diffraction: Preparation and characterization of (110)-oriented bismuth films"
J. Appl. Phys. 111, 043504 (2012, Feb. 16) (doi: 10.1063/1.3684975)
2. H. Gnaser, K. Ichiki and J. Matsuo
"Strongly reduced fragmentation and soft emission processes in sputtered ion formation from amino acid films under large Arn+ (n ≤ 2200) cluster ion bombardment"
Rapid Communications in Mass Spectrometry Vol. 26, Issue 1, pp.1-8 (2012, Jan. 15) (doi: 10.1002/rcm.5286)
3. T. Seki, T. Aoki and J. Matsuo
"Etching of metallic materials with Cl2 gas cluster ion beam"
Surface & Coatings Technology 206 Issues 5, pp. 789-791 (2011, Nov.)
(doi:10.1016/j.surfcoat.2011.04.054)
4. M. Hada, S. Ibuki, Y. Hontani, Y. Yamamoto, K. Ichiki, S. Ninomiya, T. Seki, T. Aoki, J. Matsuo
"Low Damage Milling of an Amino Acid thin film with Cluster Ion Beam"
J. Appl. Phys., 110, 094701 (2011,)
5. Y. Wakamatsu, H. Yamada, S. Ninomiya, B. N. Jones, T. Seki, T. Aoki, R. Webb and J. Matsuo
"Highly sensitive molecular detection with swift heavy ions"
Nuclear Instruments and Methods in Physics Research B, 269, pp. 2251-2253, (2011, Oct.)
(doi:10.1016/.nim.2011.02.069)

6. K. Ichiki, S. Ninomiya, T. Seki, , T. Aoki and J. Matsuo
"The effects of cluster size on sputtering and surface smoothing of PMMA with gas cluster ion beams"
Transactions of the MRS-J 36[3] pp. 309-312(2011, Sep.)
7. Y. Yamamoto, K. Ichiki, T. Seki, T. Aoki and J. Matsuo
"Evaluation of damage depth on arginine films with molecular depth profiling by Ar cluster ion beam"
Transactions of the MRS-J 36[3] pp. 313-316(2011, Sep.)
8. T. Aoki, T. Seki and J. Matsuo
"Molecular dynamics study of crater formation by core-shell structured cluster impact"
Nuclear Instruments and Methods in Physics Research B, In Press (2011, Sep.) (doi: 10.1016/j.nimb.2011.08.061)
9. M. Hada, K. Okimura and J. Matsuo
"Photo-induced lattice softening of excited-state VO_{2"}
Appl. Phys. Lett. 99, 051903 (2011, Aug.)(DOI: 10.1002/sia.3587)
10. T. Aoki, T. Seki and J. Matsuo
"Molecular dynamics simulations of large fluorine cluster impact on silicon with supersonic velocity"
Nuclear Instruments and Methods in Physics Research B, 269, pp. 1582-1585, (2011, July)
(doi:10.1016/j.nimb.2010.12.013)
11. M. Hada, J. Matsuo
"Evaluation of lattice motion in CdTe single crystal using in-air tabletop time-resolved X-ray diffractometer"
IOP Conf. Ser.: Mater. Sci. Eng. 24 012010 (2011)(doi: 10.1088/1757-899X/24/1/012010)