

研究 発 表／R E S U L T S

Publications 2020-2019

2020

1. Masaki Hada, Kotaro Makino, Hirotaka Inoue, Taisuke Hasegawa, Hideki Masuda, Hiroo Suzuki, Keiichi Shirasu, Tomohiro Nakagawa, Toshio Seki, Jiro Matsuo, Takeshi Nishikawa, Yoshifumi Yamashita, Shin-ya Koshihara, Vlad Stolojan, S. Ravi P. Silva, Jun-ichi Fujita, Yasuhiko Hayashi, Satoshi Maeda, Muneaki Hase
"Phonon transport probed at carbon nanotube yarn/sheet boundaries by ultrafast structural dynamics"
Carbon, Volume 170, December 2020, Pages 165-173, Available online 19 August 2020
(doi:10.1016/j.carbon.2020.08.026)
2. Toshio Seki, Tomoya Nonomura, Takaaki Aoki, Jiro Matsuo
"MeV-SIMS measurement of lithium-containing electrolyte"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 479, Issue 15, September 2020, Pages 229-232, Published 25 July 2020
(doi:10.1016/j.nimb.2020.07.007)
3. Toshio Seki, Kenta Ishii, Takaaki Aoki, Jiro Matsuo
"Secondary ion mass spectrometry measurements under ambient and humid conditions using MeV ions"
Journal of Vacuum Science & Technology B, Volume 38, Issue 3, 034014(2020), Published Online 29 April 2020
(doi:10.1116/1.5145014)
4. Toshio Seki
"Development of Atmospheric Pressure MeV-SIMS and Solid-Liquid Interface Analysis"
Journal of surface analysis, Volume 26, Issue 3, Pages 254-259, Published March 2020
(doi:10.1384/jsa.26.254)

2019

1. Hubert Gnaser, Rika Oki, Takaaki Aoki, Toshio Seki, Jiro Matsuo
"Optimized Alkali-Metal Cationization in Secondary Ion Mass Spectrometry of Polyethylene Glycol Oligomers with up to m/z 10000: Dependence on Cation Species and Concentration"
Analytical Chemistry 2020, Volume 92, Issue 1, Pages 1511-1517, Published 4 December 2019
(doi:10.1021/acs.analchem.9b04770)

2. Hirose Ryo, Onaka-Masada Ayumi, Okuyama Ryosuke, Kadono Takeshi, Shigematsu Satoshi, Kobayashi Kouji, Suzuki Akihiro, Koga Yoshihiro, Matsuo Jiro, Kurita Kazunari
"Effect of ramping up rate on end of range defect in multielement molecular-ion (CH_3O)-implanted silicon wafers"
Japanese Journal of Applied Physics, Volume 58, Issue 12, Pages 121002-121002, Published 6 November 2019
(doi:10.7567/1347-4065/ab4fc9)
3. Hada M, Miyata K, Ohmura S, Arashida Y, Ichiyanagi K, Katayama I, Suzuki T, Chen W, Mizote S, Sawa T, Yokoya T, Seki T, Matsuo J, Tokunaga T, Itoh C, Tsuruta K, Fukaya R, Nozawa S, Adachi SI, Takeda J, Onda K, Koshihara SY, Hayashi Y, Nishina Y
"Selective Reduction Mechanism of Graphene Oxide Driven by the Photon Mode *versus* the Thermal Mode."
ACS Nano, Volume 13, Issue 9, Pages 10103-10112, Published 24 September 2019
(doi:10.1021/acsnano.9b03060)
4. P.Thopan, T.Seki, L.D.Yu, U.Tippawan, J.Matsuo
"Gas cooling secondary ions emitted by gas cluster ion beam at the travelling-wave ion guide of a Q-ToF-SIMS system"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 450, Pages 139-143, Published 1 July 2019
(doi:10.1016/j.nimb.2018.07.024)
5. P.Thopan, T.Seki, L.D.Yu, U.Tippawan, J.Matsuo
"Cluster ion beam bombardment and Q-ToF-SIMS analysis of large biomolecules"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 448, Pages 11-18, Published 1 June 2019
(doi:10.1016/j.nimb.2019.04.001)