

## 2020年度 とくしま地域産学官共同研究拠点 機器利用報告

### 論文発表

機器名	著者	題目(テーマ)	雑誌名	巻	ページ	発行年	査読有無	教員名
MALDI-TOF-MS	<b>Tomohiro Hirano</b> , Yuta Ogasa, Miyuki Oshimura, Koichi Ute	Chemoselective radical polymerization of <i>N</i> -allylmethacrylamide with an aid of complexation with Li <sup>+</sup> cation	Polymer	201	122664	2020	有	右手/押村
MALDI-TOF-MS	Miyuki Oshimura	Chemoselective transesterification and polymer synthesis using a zincate complex	Polymer Journal	53	249	2021	有	右手/押村
MALDI-TOF-MS	<b>Arakawa Y.</b> , Sato F., Arika K., Minagawa K., Imada Y.	Preparation of flavin-containing mesoporous network polymers and their catalysis	Tetrahedron Letters	61	151710	2020	有	今田
MALDI-TOF-MS	<b>Arakawa Y.</b> , Ueta S., Okamoto T., Minagawa K., Imada Y.	Nucleophilic Addition to Nitrones Using a Flow Microreactor	Synlett	31	866~870	2020	有	今田
MALDI-TOF-MS	<b>Arakawa Y.</b> , Mihara T., Fujii H., Minagawa K., Imada Y.	An uncommon use of irradiated flavins: Brønsted acid catalysis	Chemical Communications	56	5661~5664	2020	有	今田
MALDI-TOF-MS	<b>Hase E.</b> , Takanari H., Hoshi K., Okamoto M., Tabata A., Nagamune H., Minamikawa T., Yasui T., Yoshida Y., Minagawa K., Kawamura Y., Imada Y., Yagishita F.	Two- And three-photon excitable quaternized imidazo[1,2-a]pyridines as mitochondrial imaging and potent cancer therapy agents	Organic and Biomolecular Chemistry	18	7571~7576	2020	-	今田
MALDI-TOF-MS	<b>Tanikami Y.</b> , Tagami T., Sakamoto M., Arakawa Y., Mizuguchi H., Imada Y., Takayanagi T.	Determination of acid dissociation constants of flavin analogues by capillary zone electrophoresis	Electrophoresis	41	1316~1325	2020	-	今田
MALDI-TOF-MS	<b>Hoshi K.</b> , Sanagawa Y., Umabayashi R., Tabata A., Nagamune H., Hase E., Minamikawa T., Yasui T., Yoshida Y., Minagawa K., Kawamura Y., Imada Y.,	Synthesis and optical properties of quadrupolar pyridinium salt and its application as bioimaging agent	Chemistry Letters	49	1487~1489	2020	-	今田
MALDI-TOF-MS	<b>Yagishita F.</b> , Hoshi K., Yoshida Y., Ueta S., Minagawa K., Imada Y., Kawamura Y.	Facile Construction of Benzofulvene Scaffold from Tetraaryl[3]cumulene Through Electrophilic Iodocyclization	European Journal of Organic Chemistry	2021	235~238	2021	-	今田
MALDI-TOF-MS	<b>Rumana Yesmin Hasi</b> , Dai Majima, Katsuya Morito, Hanif Ali, Kentaro Kogure, Meera Nanjundan, Junji Hayashi, Ryushi Kawakami, Kaori Kanemaru, Tamostsu	Isolation of glycosylinositol phosphoceramide and phytoceramide 1-phosphate in plants and their chemical stabilities.	Journal of Chromatography B	1152	122231	2020	有	田中
MALDI-TOF-MS 化学成分解析装置 (LC-MS)	<b>Yamahana H.</b> , Kunieda Y., Tominaga M., Yamada H., Uto Y.	Development of a novel acetyl glucose-modified gefitinib derivative to enhance the radiosensitizing effect	Bioorganic and Medicinal Chemistry	29	in press	2021	有	宇都
MALDI-TOF-MS 化学成分解析装置 (LC-MS)	<b>Yamahana H.</b> , Takino T., Endo Y., Yamada H., Suzuki T., Uto Y.	A novel celecoxib analog UTX-121 inhibits HT1080 cell invasion by modulating membrane-type 1 matrix metalloproteinase	Biochemical and Biophysical Research Communications	521	137-144	2020	有	宇都
レーザー顕微鏡	Liu R., Rong K., Wang Z., Cui M., Deguchi Y., Tanaka S., Yan J., Liu J.	Sample temperature effect on steel measurement using SP-LIBS and collinear long-short DP-LIBS	ISIJ International	60	1724	2020	有	出口
レーザー顕微鏡	Cui M., Deguchi Y., Wang Z., Yao C., Tan L., Zhang D.	Signal Improvement for Underwater Measurement of Metal Samples Using Collinear Long-Short Double-Pulse Laser Induced Breakdown	Frontiers in Physics	8	237	2020	有	出口

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レーザー顕微鏡	Cui M., Deguchi Y., Wang Z., Tanaka S., Xue B., Yao C., Zhang D.	Fraunhofer-type signal for underwater measurement of copper sample using collinear long-short double-pulse laser-induced breakdown	Spectrochimica Acta - Part B Atomic Spectroscopy	168	105873	2020	有	出口
レーザー顕微鏡 微細構造観察装置 (SEM)	<b>Pu T.</b> , Chen Y., Li X., Peng T., Wang X., Li J., He W., Ben J., Lu Y., Liu X., Ao J.-P.	Gate structure dependent normally-off AlGaIn/GaN heterostructure field-effect transistors with p-GaN cap layer	Journal of Physics D: Applied Physics	53	415104(1-6)	2020	有	敖
レーザー顕微鏡 微細構造観察装置 (SEM)	<b>Li Y.</b> , Pu T.-F., Li X.-B., Zhong Y.-R., Yang L.-A., Fujiwara S., Kitahata H., Ao J.-P.	GaN Schottky Barrier Diode-Based Wideband and Medium-Power Microwave Rectifier for Wireless Power Transmission	IEEE Transactions on Electron Devices	67	4123-4129	2020	有	敖
レーザー顕微鏡 微細構造観察装置 (SEM)	<b>Li X.</b> , Pu T., Li X., Li L., Ao J.-P.	Correlation between Anode Area and Sensitivity for the TiN/GaN Schottky Barrier Diode Temperature Sensor	IEEE Transactions on Electron Devices	67	1171-1175	2020	有	敖
レーザー顕微鏡 微細構造観察装置 (SEM)	<b>Pu T.</b> , Li X., Peng T., Xie T., Li L., Ao J.-P.	Influence of metal-insulator-semiconductor gate structure on normally-off p-GaN heterojunction field-effect transistors	Journal of Crystal Growth	532	125395(1-5)	2020	有	敖
レーザー顕微鏡 微細構造観察装置 (SEM)	<b>Li X.</b> , Pu T., Zhang T., Li X., Li L., Ao J.-P.	P-NiO/n-GaN Heterostructure Diode for Temperature Sensor Application	IEEE Sensors Journal	20	62-66	2020	有	敖
微細構造観察装置 (SEM)	Okada T., Hisazawa H., Iwasaki A., Kawaguchi K., Morimoto H., Nakao K., Ueki T., Tomita T.	Creep fracture of aluminum and copper tricrystals having <110>-Tilt Σ3, 3, 9 Grain Boundaries	Materials Transactions	62	239	2021	有	岡田
顕微加工観測装置 (FIB)	<b>Okada T.</b> , Fuchikami Y., Mimura K., Ueki T., Hisazawa H., Tomita T.	Formation of ohmic Ni electrodes on femtosecond laser-modified 4H-SiC surface	Applied Physics A: Materials Science and Processing	126	535	2020	有	岡田
顕微加工観測装置 (FIB)	Okamoto H., Kamada S., Haraguchi M., Okamoto T.	Design of a hybrid plasmonic waveguide device using a trench structure	Journal of Physics Communications	4	95022	2020	有	原口
連続角度光散乱光度計	Matsuki H., Goto M., Motohashi M., Kiguchi A., Nakao T., Tamai N.	Formation of intermediate gel-liquid crystalline phase on medium-chain phosphatidylcholine bilayers: Phase transitions depending on the	Biochimica et Biophysica Acta - Biomembranes	1862	183197	2020	有	松木
燃焼温度・燃焼生成物の定量測定装置	<b>Nada Y.</b> , Kidoguchi Y., Kikui R., Miyazaki S.	Effects of inversed-delta injection rate on late combustion and soot emissions from diesel combustion in a constant-volume chamber	Fuel	279	Article 118442	2020	有	名田/木戸口
燃焼温度・燃焼生成物の定量測定装置	<b>Kidoguchi Y.</b> , Ono M., Noda Y., Nada Y.	Characteristics of Heat Release History of Multi-Hole Diesel Spray Affected by Initial Mixture Formation, Wall Impingement and Spray	SAE Technical Papers	-	2020-01-2119	2020	有	名田/木戸口
ICP発光分光分析装置	<b>S. Sugiyama</b> , R. H. Liu, K. Imanishi, N. Shimoda, M. Katoh, J. C. Liu	Dependence of Phosphorus Recovery on Acid Type during Dissolution-Precipitation Treatment of the Incineration Ash of Chicken Manure	Journal of Chemical Engineering of Japan	53	667-674	2020	有	杉山