

## 2019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
化学成分解析装置 (LC-MS)	F. Yagishita, T. Nagamori, S. Shimokawa, K. Hoshi, Y. Yoshida, Y. Imada, Y. Kawamura	Visible-light-induced oxidative coupling of benzylic amines using iridium(III) complex of pincer type imidazo[1,5-a]pyridine ligand	Tetrahedron Letters	in press		2020	有	河村
化学成分解析装置 (LC-MS)	F. Yagishita, J. Tanigawa, C. Nii, A. Tabata, H. Nagamune, H. Takanari, Y. Imada, Y. Kawamura	Fluorescent Imidazo[1,5-a]pyridinium Salt for a Potential Cancer Therapy Agent	ACS Medicinal Chemistry Letters	10	1110-1114	2019	有	河村
連続角度光散乱光度計	Hitomi Sakai, Tohru Sakai, Badr Ali Hoida, Kaori Kanemaru and Kumio Yokoigawa	Analysis of cereal extracts as conditioning solutes to suppress the initial attachment of Escherichia coli to abiotic surfaces,	European Food Research and Technology	DOI: <a href="https://doi.org/10.1007/">https://doi.org/10.1007/</a>		2020	有	横井川
ICP発光分光分析装置	Kuroki A., Hiroto M., Urushihara Y., Horikawa T., Sotowa K.-I., Alcántara Avila J.R.	Adsorption mechanism of metal ions on activated carbon	Adsorption	25	6	2019	有	堀河
ICP発光分光分析装置	S. Sugiyama, K. Wakisaka, K. Imanishi, N. Shimoda, M. Katoh, J. C. Liu	Recovery of Phosphate Rock Equivalents from Incineration Ash of Chicken Manure by Elution-precipitation Treatment	Journal of Chemical Engineering of Japan	Vol.52, No.9	778-782	2019		杉山
NMRシステム	K. Magishi, A. Hisada, T. Saito, K. Koyama, T. Namiki, and K. Nishimura	NMR Study of Caged Cubic Compound $NdTr_2Al_{20}$ ( $Tr = Ti$ and $V$ )	Journal of Physics: Conference Series	29	015005-1-6	2020	有	真岸
NMRシステム	K. Magishi, H. Yona, A. Hisada, T. Saito, K. Koyama, and Y. Isikawa	NMR Study of Caged Compound $RCo_2Sn_2Zn_{18}$ ( $R = La$ and $Pr$ )	Journal of Physics: Conference Series	30	011112-1-6	2020	有	真岸
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 online 上	2020	有	松木
化学成分解析装置 (LC-MS)	Yamahana H., 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	査読有	宇都
微細構造観察装置 (SEM)	Hirota K., Takagi K., Hanasaku K., Hasezaki K.L., Saito H., Hata S., Hasezaki K.	Carbon observation by electron energy-loss spectroscopy and thermoelectric properties of graphite added bismuth antimony telluride	Intermetallics	109	1-7	2019	査読有	長谷崎
NMRシステム	Y. Kawasaki, H. Mori, Y. Kishimoto, K. Nakamura, Z. He, and M. Itoh	NMR Study of Magnetic Structure in $\alpha$ -CoV <sub>2</sub> O <sub>6</sub>	JPS Conf. Proc.	30	11088	2020	有	川崎
NMRシステム	A. Nojirino, M. Aki, Y. Kawasaki, Y. Kishimoto, K. Nakamura, Y. Nakai, T. Mito, M. Yashima, H. Mukuda, H. Kotegawa, and H. Sugawara	Electronic State of V <sub>3</sub> Si Probed by <sup>29</sup> Si NMR	JPS Conf. Proc.	30	11050	2020	有	川崎
NMRシステム	T. Deguchi, Y. Kawasaki, Y. Kishimoto, K. Nakamura, Y. Nakai, T. Mito, Z. Haque, L.C. Gupta, and A.K. Ganguli	NMR Study of Layered Eu-based Bismuth-Sulfide EuFBiS <sub>2</sub>	JPS Conf. Proc.	30	11060	2020	有	川崎
微細構造観察装置 (SEM)	Masahiro Okazaki, Yusuke Ishii, Akihiro Furube	FEMTOSECOND TRANSIENT ABSORPTION SPECTROSCOPY OF MAGHEMITE NANOPARTICLES LOADED WITH GOLD NANOPARTICLES	Materials Physics and Mechanics	42	511-516	2019	有	古部
検出器切換型X線CT装置	Kurumi Saito, Shota Fuketa, Ryouhei Shimatani, Yoshiki Kawata, Noboru Niki, Keiji Umetani, Yasutaka Nakano, Hiroaki Sakai, Toshihiro Okamoto and Harumi Itoh	3D microstructure analysis of human pulmonary emphysema using a synchrotron radiation CT	Proc. SPIE Medical Imaging	11317	pp.113170H-1-6	2020/2/15-20	有	河田

微細構造観察装置 (SEM)	Li X., Hoshi T., Li L., Pu T., Zhang T., Xie T., Li X., Ao J.-P.	GaN Schottky barrier diode with thermally stable nickel nitride electrode deposited by reactive sputtering	Materials Science in Semiconductor Processing	93	pp1-5	2019	有	敖
微細構造観察装置 (SEM)	Li X., Pu T., Taiki H., Zhang T., Xie T., Luke Fujiwara S.J., Kitahata H., Li L., Kobayashi S., Ito M., Li X., Ao J.-P.	GaN Schottky barrier diodes with nickel nitride anodes sputtered at different nitrogen partial pressure	Vacuum	162	pp72-77	2019	有	敖
微細構造観察装置 (SEM)	Xie T., Zheng T., Wang R., Pu T., Li X., Bu Y., Ao J.-P.	A promising CuO x /WO 3 p-n heterojunction thin-film photocathode fabricated by magnetron reactive sputtering	International Journal of Hydrogen Energy	44	pp4062-4071	2019	有	敖
微細構造観察装置 (SEM)	Pu T., Wang X., Huang Q., Zhang T., Li X., Li L., Ao J.-P.	Normally-Off AlGaIn/GaN Heterojunction Metal-Insulator-Semiconductor Field-Effect Transistors with Gate-First Process	IEEE Electron Device Letters	40	pp185-188	2019	有	敖
MALDI-TOF-MS	Arakawa Y., 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
化学成分解析装置 (LC-MS)	Tagami T., Arakawa Y., Minagawa K., Imada Y.	Efficient use of photons in photoredox/enamine dual catalysis with a peptide-bridged flavin-amine hybrid	Organic Letters	21	6978~6982	2019	有	今田
MALDI-TOF-MS	Yagishita F., Tanigawa J.-I., Nii C., Tabata A., Nagamune H., Takanari H., Imada Y., Kawamura Y.	Fluorescent Imidazo[1,5- a]pyridinium salt for a potential cancer therapy agent	ACS Medicinal Chemistry Letters	10	1110~1114	2019	有	今田
MALDI-TOF-MS	Sakai T., Watanabe M., Ohkado R., Arakawa Y., Imada Y., Iida H.	Flavinium and Alkali-Metal Assembly on Sulfated Chitin: A Heterogeneous Supramolecular Catalyst for H2O2-Mediated Oxidation	ChemSusChem	12	1640~1645	2019	有	今田
レーザー顕微鏡	Wang Z., Liu R., Deguchi Y., Tanaka S., Tainaka K., Tanno K., Watanabe H., Yan J., Liu J.	Detection Improvement of Unburned Carbon Content in Fly Ash Flow Using LIBS with a Two-Stage Cyclone Measurement System	Energy and Fuels	33	7805	2019	有	出口
レーザー顕微鏡	Liu R., Deguchi Y., Nan W., Hu R., Wang Z., Fujita Y., Tanaka S., Tainaka K., Tanno K., Watanabe H., Liu J., Yan J.	Unburned carbon measurement in fly ash using laser-induced breakdown spectroscopy with short nanosecond pulse width laser	Advanced Powder Technology	30	1210	2019	有	出口
レーザー顕微鏡	Cui M., Deguchi Y., Wang Z., Tanaka S., Jeon M.-G., Fujita Y., Zhao S.	Remote open-path laser-induced breakdown spectroscopy for the analysis of manganese in steel samples at high temperature	Plasma Science and Technology	21		2019	有	出口
レーザー顕微鏡	Cui M., Deguchi Y., Wang Z., Tanaka S., Fujita Y., Zhao S.	Improved Analysis of Manganese in Steel Samples Using Collinear Long-Short Double Pulse Laser-Induced Breakdown Spectroscopy (LIBS)	Applied Spectroscopy	73	152	2019	有	出口