

2021年度発表

主発表者	所属	発表先	タイトル	課題番号
Junjun Jia	Global Center for Science and Engineering (GCSE), Faculty of Science and Engineering, Waseda University	ACS Applied Materials & Interfaces, 13 (2021), 31825–31834	Temporal Evolution of Microscopic Structure and Functionality during Crystallization of Amorphous Indium-Based Oxide Films	1801147F 1806044F
Naoki Sanoodo	Department of Applied Chemistry, School of Engineering, Tohoku University	Crystal Engineering Communications, 23 (2021), 5039	Vapor-liquid-solid growth of 4H-SiC single crystal films with extremely low carrier densities in chemical vapor deposition with a Pt-Si alloy flux and X-ray topography analysis of their dislocation propagation behaviors	1902003A 2009082S
Shuichiro Baba	United Graduate School of Agricultural Sciences, Kagoshima University	Journal of Bioscience and Bioengineering, 132 (2021), 265–270	Breeding sake yeast and identification of mutation patterns by synchrotron light irradiation	1905040T 1908065R
Son Dinh Le	Graduate School of Advanced Science and Technology, Japan Advanced Institute of Science and Technology (JAIST)	Catalysis Science & Technology, 12 (4)(2021), 1060–1069	Selective hydrogenation of succinic acid to gamma-butyrolactone with PVP-capped CuPd catalysts	1910092R 2010105R
久間俊平	佐賀県工業技術センター	塗装工学, 56 (10)(2021), 381–388	生物由来ナノファイバーを含有する水性塗料の耐候性向上	2005040P
Yasuaki Tokudom	Department of Materials Science, Graduate School of Engineering, Osaka Prefecture University	Advanced NanoBiomed Research, 2 (2), 2100123(1–8)	Curable Layered Double Hydroxide Nanoparticles-Based Perfusion Contrast Agents for X-Ray Computed Tomography Imaging of Vascular Structures	1909076F
R. Ohtani	Department of Chemistry, Faculty of Science, Kyushu University	Angewandte Chemie International Edition, 60 (2021), 13603–13608	Metal complex lipids for fluid-fluid phase separation in co-assembled phospholipid membranes	1807056F
R. Ohtani	Department of Chemistry, Faculty of Science, Kyushu University	Chemistry a-European Journal, 27 (2021), 18135–18140	Flexibility control of two-dimensional coordination polymers by crystal morphology: Water adsorption and thermal expansion	2104032F 2101145F
高村武二郎	香川大学農学部	香川大学農学部学術報告, 74 (2022), 1–4	シンクロトロン光照射によるトウガラシ‘香川本鷹’の変異個体誘発	1802002T
Hiroataka Yamaguchi	Advanced Power-electronics Research Center, National Institute of Advanced Industrial Science and Technology	Japanese Journal of Applied Physics, 61 (2022), 045506	Mechanical properties and dislocation dynamics in β -Ga ₂ O ₃	1806043S 1912127S 2004027S
S. Shikata	School of Science and Technology, Kwansei Gakuin University	Diamond and Related Materials, 118 (2021), 108502 (1–10)	Analysis method of diamond dislocation vectors using reflectance mode X-ray topography	1910082R 2002005R 2007066R
K. Kouda	School of Science and Technology, Kwansei Gakuin University	Japanese Journal of Applied Physics, 60 (2021), 071002 (1–6)	Forbidden X-ray diffraction of highly B doped diamond substrate	1802201A 1904017R 1906049R

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Hajime Yamamoto	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University	Journal of Asian Ceramic Societies, 9 (2021), 1147–1153	Crystal Structures and Electronic States of High-Pressure Synthesized $(1-x)\text{PbVO}_3$ - $x\text{BiCrO}_3$ Solid Solutions	2007067F 2010103F
Sayleap Sdoeung	Department of Electrical and Electronic Engineering, Saga University	Applied Physics Letters, 120 (2022), 092101	Probe-induced surface defects: Origin of leakage current in halide vapor-phase epitaxial (001) β -Ga ₂ O ₃ Schottky barrier diodes	2001130S 2002002S 2003014S 2004025S 2005037S 2006050S 2007072S 2009094S 2010101S 2011120S 2012130S 2101144S 2102004S 2103015S 2104031S 2105035S 2106053S 2110107S

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Sayleap Sdoeung	Department of Electrical and Electronic Engineering, Saga University	Applied Physics Letters, 120 (2021),122107	Line-shaped defects: Origin of leakage current in halide vapor-phase epitaxial (001) β -Ga ₂ O ₃ Schottky barrier diodes	2001130S 2002002S 2003014S 2004025S 2005037S 2006050S 2007072S 2009094S 2010101S 2011120S 2012130S 2101144S 2102004S 2103015S 2104031S 2105035S 2106053S 2110107S
Junya Ohyam	Faculty of Advanced Science and Technology, Kumamoto University	The Journal of Physical Chemistry C, 126 (2022),1785	Selective Oxidation of Methane to Formaldehyde over a Silica-Supported Cobalt Single-Atom Catalyst	2005041R
Ali M. Ali	Dept. of Applied Science for Electronics and Materials, Kyushu University	Surface & Coatings Technology, 417 (2021),127185	Effects of substrate temperature and intermediate layer on adhesion, structural and mechanical properties of coaxial arc plasma deposition grown nanodiamond composite films on Si substrates	1901139S 1908066S 1911112S
Kazuya Idemitsu	Department of Applied Quantum Physics and Nuclear Engineering, Kyushu	MRS Advances, Vol.6 Issue 4 (2021),80-83	Speciation by XANES of Copper migrated into Compacted Bentonite Using Electromigration Techniques	2003024F 2007059F
Hirotooshi Yamada	Graduate School of Engineering, Nagasaki University	Journal of Power Sources, 511 (2021),230422	Concerted influence of microstructure and adsorbed water on lithium-ion conduction of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃	1709085R 1712130R