

2015年度発表

主発表者	所属	発表先	タイトル	課題番号
Yūki Katamune	Dept. of Appl. Sci. for Electr. and Mat., Kyushu Univ.	Transactions of the Materials Research Society of Japan, 40 (2015), 243–246	Near-Edge X-ray Absorption Fine-Structure Study on Hydrogenated Boron-Doped Ultrananocrystalline Diamond/Amorphous Carbon Composite Films Prepared by Coaxial Arc Plasma Deposition	1204044S 1303019A
Koshin Takemoto	Graduate School of Engineering, Nagasaki University	Journal of Power Sources, 281 (2015), 334–340	Development of rechargeable lithium-bromine batteries with lithium ion conducting solid electrolyte	1303009R
Kan Sakamoto	Nippon Nuclear Fuel Development, Co., Ltd.	Journal of Nuclear Science and Technology, 52 (2015), 1259–1264	Change of chemical states of niobium in the oxide layer of zirconium-niobium alloys with oxide growth	1303010R 1306061R 1309106R 1310112R 1311137R 1402001R
Takamichi Shinohara	Graduate School of Engineering, Kyushu University [International Institute for Carbon- Neutral Energy Research (WPI- I2CNER), Kyushu University]	Polymer, 69 (2015), 10–16	Molecular aggregation states and wetting behavior of a poly[2-(perfluorooctyl)ethyl acrylate] brush-immobilized nano- imprinted surface	1303014S
M. Sasaki	FUPET (R&D Partnership for Future Power Electronics Technology)	Materials Science Forum, 821–823 (2015), 285–288	Observation of Damaged Layers in 4H-SiC Substrates by Mirror Projection Electron Microscope	1303017A 1402009A
Kentaro Tamura	FUPET (R&D Partnership for Future Power Electronics Technology) [Rohm Co., Ltd.]	Materials Science Forum, 821–823 (2015), 367–370	Starting Points of Step-Bunching Defects on 4H-SiC Si-Face Substrates	1303017A 1402009A
Masayuki Sasaki	R&D Partnership for Future Power Electronics Technology (FUPET)	Japanese Journal of Applied Physics, 54 (2015), 091301	Synchrotron X-ray topography analysis of local damage occurring during polishing of 4H-SiC wafers	1303017A 1402009A
Hirofumi Matsuhata	Advanced Industrial Science and Technology, Advanced Power Electronics Research Center	電気学会論文誌A, 135 (2015), 768–779	4H-SiC 中の転位組織の放射光トポグラフィ法による解析 (Analysis of Dislocation Structures in 4H-SiC by Synchrotron X-ray Topography)	1303017A 1402009A
Kenji Hanada	1Department of Electrical and Electronic Engineering, Saga University	Japanese Journal of Applied Physics, 55 (2016), 030303	Observation of nanometer-sized crystalline grooves in as- grown β -Ga ₂ O ₃ single crystals	1303067R 1402169R 1407048R 1407064S 1410104S

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Masatoshi Maeki	Department of Molecular and Material Sciences, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University [Division of Biotechnology and Macromolecular Chemistry, Faculty of Engineering, Hokkaido University] [Advanced Manufacturing Research Institute, National Institute of Advanced Industrial Science and Technology]	Analytical Chemistry, 87 (2015), 4194-4200	A Method of Cryoprotection for Protein Crystallography by Using a Microfluidic Chip and Its Application for in Situ X-ray Diffraction Measurements	1305053P 1304026P
Kayoko Kobayashi	Research Institute for Sustainable Humonosphere, Kyoto University	Carbohydrate Polymers, 131 (2015), 399-406	Thermal expansion behavior of A- and B-type amylose crystals in the low-temperature region	1304043P
Shunta Harada	Department of Materials Science and Engineering, Nagoya University	Materials Science Forum, 821-823 (2015), 3-8	Dislocation Conversion during SiC Solution Growth for High-quality Crystals	1310113R
Ayuko Kitajou	Institute for Materials Chemistry and Engineering, Kyushu University	Journal of Power Sources, 302 (2016), 240-246	Capacity improvement by deficit of transition metals in inverse spinel $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{VO}_4$ cathodes	1311141R
Naoto ODA	Graduation School of Chemical Engineering, Fukuoka University	レオロジー学会誌, 44 (2016), 47-53	リサイクル無定形高分子の力学的性質の成形履歴依存性	1304042S 1307092S 1311159R 1406055R 1510091R
Satoshi Masuya	Department of Electrical and Electronic Engineering, Saga University	Japanese Journal of Applied Physics, 55 (2016), 040303	Determination of the type of stacking faults in single-crystal high-purity diamond with a low dislocation density of $<50\text{cm}^{-2}$ by synchrotron X-ray topography	1404025R 1410119S 1502007S 1504022S 1508067S 1510087S

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Yeji Song	International Center for Materials Nanoarchitectonics, National Institute for Materials Science [Materials Science and Engineering, Graduate School of Pure and Applied Sciences, University of Tsukuba]	Chemical Communications, 51 (2015), 17068–17071	Accordion-like swelling of layered perovskite crystals via massive permeation of aqueous solutions into 2D oxide galleries	1405034S 1408094S (1509075S)
Hiroshi Naragino	Dept. of Appl. Sci. for Electr. and Mat., Kyushu Univ.	EVERGREEN, Vol.03 (2016), Issue.01(1–5)	Fabrication of Ultrananocrystalline Diamond/Nonhydrogenated Amorphous Carbon Composite Films for Hard Coating by Coaxial Arc Plasma Deposition	1409098S 1410105S 1505044S
Hiroshi Naragino	Department of Applied Science for Electronics and Materials, Kyushu University	Japanese Journal of Applied Physics, 55 (2016), 030302	Room-temperature hard coating of ultrananocrystalline diamond/nonhydrogenated amorphous carbon composite films on tungsten carbide by coaxial arc plasma deposition	1410105S 1505044S
Eiji Kobayashi	Choshu Industry Co., Ltd. [Department of Materials Science and Engineering, Yamaguchi University]	Solar Energy Materials & Solar Cells, 149 (2016), 75–	Cerium oxide and hydrogen co-doped indium oxide films for high-efficiency silicon heterojunction solar cells	1404020ST 1503019S
Mohamed Egiza	Mechanical Engineering Department, Kafrelsheikh University [Dept. of Appl. Sci. for Electr. and Mat., Kyushu University]	EVERGREEN, Vol.03 (2016), Issue.01(32–36)	Si and Cr Doping Effects on Growth and Mechanical Properties of Ultrananocrystalline Diamond/Amorphous Carbon Composite Films Deposited on Cemented Carbide Substrates by Coaxial Arc Plasma Deposition	1409098S 1505044S 1510095S
上村重明	住友電気工業株式会社 解析技術センター	SEIテクニカルレビュー, 第187号 (2015), 96–101	中温型燃料電池用燃料極触媒のその場XAFS解析	1402010A
Mari Yoshida	Department of Earth Resources Engineering, Kyushu University	Journal of Environmental Chemical Engineering, 3 (2015), 1614–1621	Sorption of arsenate on MgAl and MgFe layered double hydroxides derived from calcined dolomite	1408084S
Mohamed Egiza	Department of Applied Science for Electronics and Materials, Kyushu University	Proceedings of Intellectual Exchange and Innovation Conference on Engineering & Sciences (IEICES) (2015), 23–24	ULTRANANOCRYSTALLINE DIAMOND/AMORPHOUS CARBON COMPOSITE FILMS SYNTHESIS ON CEMENTED CARBIDE SUBSTRATE BY COAXIAL ARC PLASMA DEPOSITION	1505044S
Shigeaki UEMURA	Sumitomo Electric Industries, Ltd Assistant General Manager, Analysis Technology Research Center	SEI Technical Review No.81 , (2015), pp95–100	In-situ XAFS Analysis for Fuel Electrode Catalysts of Intermediate Temperature Solid Oxide Fuel Cells	1402010A

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R. Guégan	Material Science and Production Engineering, Graduate School of Engineering	Chemical Communications 52 , (2016), 1594-1597	Sandwich organization of non-ionic surfactant liquid crystalline phases as induced by large inorganic $K_4Nb_6O_{17}$ nanosheets	1504024S
Satoshi Masuya	Department of Electrical and Electronic Engineering, Saga University	Japanese Journal of Applied Physics, 55 (2016), 4	Determination of the type of stacking faults in single-crystal high-purity diamond with a low dislocation density of $<50\text{cm}^{-2}$ by synchrotron X-ray topography	1410119S 1504022S
Wenqian Chen	Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University	Angewandte Chemie International Edition, 55 (2016), 5195-5200	Glass Formation of a Coordination Polymer Crystal for Enhanced Proton Conductivity and Material Flexibility	1508069PT
Atsushi Tanaka	Advanced Power Electronics Research Center, National Institute of Advanced Industrial Science and Technology (AIST) [Fuji Electric Co., Ltd.]	Journal of Applied Physics, 119 (2016), 095711	Growth of Shockley type stacking faults upon forward degradation in 4H-SiC p-i-n diodes	1403007G 1404021G 1405037G 1408081G 1409097G
田端正明	佐賀大学大学院 工学系研究科	近世陶磁器研究会	三重津海軍所跡からの出土磁器の胎土分析と生産地推定 第1報	1311124P 1410113P
田端正明	佐賀大学大学院 工学系研究科	Proceedings of the 5th International Symposium on History of Indigenous Knowledge, vol.6 (2015), 107-116	三重津海軍所跡出土磁器と志田焼磁器の胎土成分の蛍光X線分析	1410113P

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Hiroshi Naragino	1Department of Applied Science for Electronics and Materials, Kyushu University	Applied Physics Express, 8 (2015), 075101	A synthesis method of ultrananocrystalline diamond in powder employing a coaxial arc plasma gun	1104035AS 090423N 081152N
田端正明	佐賀大学大学院 工学系研究科	幕末佐賀藩の科学技術, 下 (2016), 290-302	佐賀藩反射炉跡出土遺物の分析 —レンガ・鉄滓の蛍光X線分析—	1304041P 1306070P
田端正明	佐賀大学大学院 工学系研究科	幕末佐賀藩の科学技術, 上 (2016), 332-342	佐賀藩反射炉跡出土遺物の分析 —レンガ・鉄滓の蛍光X線分析—	1103013Pi
Kazumasa SUGIYAMA	Institute for Materials Research (IMR), Tohoku University	Journal of Mineralogical and Petrological Sciences, 111 (2016), 1-8	Distribution of Mn in pink elbaite tourmaline from Mogok, Myanmar	1403006F 1406060F