

2017年度発表

主発表者	所属	発表先	タイトル	課題番号
Kazuo Nishihagi	Department of Electrical and Electronic Engineering, Synchrotron Light Application Center, Saga University	Materials Research Bulletin, 94 (2017), 170-173	Structural properties of Eu doped gallium oxide films	1511116P
Tasuma Suzuki	Department of Sustainable Environmental Engineering, Graduate School of Sciences and Technology for Innovation, Yamaguchi University	Journal of Hazardous Materials, 338 (2017), 482-490	Preferential adsorption and surface precipitation of lead(II) ions onto anatase in artificially contaminated Dixie clay	1408093S 1508084S
Satoshi Masuya	Department of Electrical and Electronic Engineering, Saga University	Diamond & Related Materials, 75 (2017), 155-160	Formation of stacking fault and dislocation behavior during the high-temperature annealing of single-crystal HPHT diamond	1512147S 1605029S 1607059S
Hirotochi Yamada	Graduate School of Engineering, Nagasaki University	Journal of Power Sources, 368 (2017), 97-106	Influence of strain on local structure and lithium ionic conduction in garnet-type solid electrolyte	1607057R
Satoshi Takeichi	Department of Applied Science for Electronics and Materials, Kyushu University	ECS Transactions, 75 (2017), 27-32	Thermal conductivity of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Prepared by Coaxial Arc Plasma Deposition	080623N
Hiroki Gima	Department of Applied Science for Electronics and Materials, Kyushu University	ECS Transactions, 75 (2017), 37-44	N-type Conduction in Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films Prepared by Coaxial Arc Plasma Deposition Using Li ₃ PO ₄ -Blended Graphite Targets	1204044S
Liping Tong	State Key Laboratory of Metal Matrix Composites, Shanghai Jiaotong University	JOURNAL OF APPLIED PHYSICS, 122 (2017), 173103	Defect induced visible-light-activated near-infrared emissions in Gd _{3-x-y-z} Yb _x Bi _y Er _z Ga ₅ O ₁₂	1605028P
Ayuko KITAJOU	Institute for Materials Chemistry and Engineering, Kyushu University	Electrochemistry, 85(8) (2017), 472-477	Discharge and Charge Reaction of Perovskite-type MF ₃ (M = Fe and Ti) Cathodes for Lithium-ion Batteries	090546N 1607055R
Yanhua Zhang	Hubei Provincial Key Laboratory of Green Materials for Light Industry, Hubei University of Technology	Electrochimica Acta, 261 (2018), 137-142	Regulation mechanism of bottleneck size on Li ⁺ migration activation energy in garnet-type Li ₇ La ₃ Zr ₂ O ₁₂	1604016P
Junjun Jia	Graduate School of Science and Engineering, Aoyama Gakuin University	Physical Review Applied, 9 (2018), 014018(1-13)	Evolution of Defect Structures and Deep Subgap States during Annealing of Amorphous In-Ga-Zn Oxide for Thin-Film Transistors	1504023F
Yuhei Yamamoto	Graduate School of Science and Technology, Tokushima University	Spectrochimica Acta Part B, 142 (2018), 55-61	Role of iron modifier on boron atomization process using graphite furnace-atomic absorption spectrometry based on speciation of iron using X-ray absorption fine structure	1505041PT
Masanori Suzuki	Graduate School of Engineering, Osaka University	Journal of the American Ceramic Society, 101 (2018), 1-13	Effect of thermal history on high-valence chromium ion dissolution in merwinite (3CaO·MgO·2SiO ₂)	1510089S 1608080S

2017年度発表

主発表者	所属	発表先	タイトル	課題番号
Hiroki Shibata	Graduate School of Engineering, okkaido University	Journal of Nuclear Materials 502 (2018), 228-235	Development of accident tolerant FeCrAl-ODS steels utilizing Ce-oxide particles dispersion	1510096S 1601151S 1607060S
Shinya Hosokawa	Department of Physics, Kumamoto University	Physical Review B 96 (2017), 214207(1-12)	Impurity position and lattice distortion in a Mn-doped Bi ₂ Te ₃ topological insulator investigated by x-ray fluorescence holography and x-ray absorption fine structure	1403005F 1503016F
笠井誠	三井金属鉱業株式会社	大阪府立大学博士論文 (2018)	パーライトの高機能化プロセスに関する研究	1512125S
Makoto KASAI	Mitsui Mining & Smelting Co., Ltd.. Perlite Division	Journal of the Japan Society of Powder and Powder Metallurgy Vol.65 No.3 (2018), 158-162	Synthesis and Evaluation of Tobermorite from Perlite using Hydrothermal Synthesis	1510092S 1705037S
田端正明	佐賀大学大学院 工学系研究科	分析化学 66 (2017), 839-846	シンクロトロン蛍光X線分析法による世界分解遺産三重津海軍所跡(佐賀市)出土磁器の胎土分析—第2報、レアメタル分析による生産地推定—	1410113P 1508070P 1605031P 1612118P
Yusuke Sekimoto	Department of Chemistry, Graduate School of Science and Technology, Kumamoto University	Scientific Reports, 7 (2017), 12159	Tuneable pressure effects in graphene oxide layers	1606042F
Hiromasa Suo	National Institute of Advance and Technology (AIST)	Materials Science Forum, 897 (2017), 3-6	Bulk Growth of Low Resistivity n-Type 4H-SiC Using Co-Doping	1502002A 1603007A
T.Yamashita	Advanced Power Electronics Research Center, National Institute of Advanced Industrial Science and Technology	Journal of Crystal Growth, 476 (2017), 99-106	Characterization of stacking faults with emission wavelengths of over 500 nm formed in 4H-SiC epitaxial films	1502002A
Shohei Hayashi	Advanced Power Electronics Research Center, National Institute of Advanced Industrial Science and Technology	Applied Physics Express, Vol.10 No.8 (2017), 081201	Origin analysis of expanded stacking faults by applying forward current to 4H-SiC p-i-n diodes	1502002A
本倉健	東京工業大学物質理工学院応用化学系	有機合成化学協会誌, Vol.75 No.3 (2017), 200-208	固体表面における協奏的触媒作用: 金属錯体・金属カチオン・有機分子の集積による有機反応の促進	1404015F 1504037F
Yanna Chen	Synchrotron X-ray Station at SPring-8, Research Network and Facility Services Division, National Institute for Materials Science (NIMS)	PHYSICAL REVIEW B, 95 (2017), 245301	Lattice distortion and electronic structure of magnesium-doped nickel oxide epitaxial thin films	1701129G
Kazuya Miura	Suzuki Motor Corporation Shizuoka University	SAE Technical paper, 32 (2017), 0009	A Theoretical Study of Interaction between Platinum and Oxide Support for Exhaust-Gas Purification Catalyst	1508066GT 1705030G

2017年度発表

主発表者	所属	発表先	タイトル	課題番号
二宮翔	九州大学大学院総合理工学府	九州大学中央分析センター報告, 35 (2017), 16-32	光電子分光および軟X線吸収分光による鋼中炭素の深さ分解状態解析	1705026Pi 1707068F
Shota Hisamitsu	Department of Chemistry and Biochemistry, Graduate School of Engineering, Center for Molecular Systems (CMS), Kyushu University	Physical Chemistry Chemical Physics, 20 (2018), 3233-3240	Two-dimensional structural ordering in a chromophoric ionic liquid for triplet energy migration-based photon upconversion	1601146F 1704015F
Shinya Hosokawa	Department of Physics, Kumamoto University	Physical Review B, 96 (2017), 214207-1-12	Impurity position and lattice distortion in a Mn-doped Bi ₂ Te ₃ topological insulator investigated by x-ray fluorescence holography and x-ray absorption fine structure	1403005F 1503016F
Ryo Ohtani	Department of Chemistry, Graduate School of Science and Technology, Kumamoto University	Chemical Communication, 53 (2017), 13249-13252	The impact of metal complex lipids on viscosity and curvature of hybrid liposomes	1704023T
Naoto Nishiyama	Division of Environmental Science and Engineering, Graduate School of Science and Engineering Yamaguchi University	ACS Omega, 2(12) (2017), 9033-9039	Effect of Mixed Valence States of Platinum Ion Dopants on the Photocatalytic Activity of Titanium Dioxide under Visible Light Irradiation	1512121PT 1607058R
Aya Torimoto	Institute for Chemical Research, Kyoto University	Journal of Luminescence, 197 (2018), 98-103	Correlation between emission properties, valence states of Ce and chemical compositions of alkaline earth borate glasses	1610086F
Hirokazu Masai	National Institute of Advanced Industrial Science and Technology	Journal of Luminescence, 195 (2018), 413-419	Luminescence of Ce ³⁺ in aluminophosphate glasses prepared in air	1610086F
Masanori Suzuki	Graduate School of Engineering, Osaka University	Journal of the American Ceramic Society, Vol.101 No.6 (2018), 2653-2665	Effect of thermal history on high-valence chromium ion dissolution in merwinite (3CaO·MgO·2SiO ₂)	1510089S 1608080S
Takahiko Kojima	Department of Chemistry, Faculty of Pure and Applied Sciences, University of Tsukuba	Inorganic Chemistry, 57(16) (2018), 9683-9695	Intermediate-Spin Iron(III) Complexes Having a Redox-Noninnocent Macrocyclic Tetraamido Ligand	1512126F
Hideharu Niwa	Graduate School of Pure and Applied Science, University of Tsukuba	Journal of Power Sources, 384 (2018), 156-159	Electronic states in oxidized Na _x CoO ₂ as revealed by X-ray absorption spectroscopy coupled with ab initio calculation	1604015R

2017年度発表

主発表者	所属	発表先	タイトル	課題番号
Mohamed Egiza	Department of Applied Science for Electronics and Materials, Kyushu University	Proceedings of 11th International Symposium on Atomic Level Characterizations for New Materials and Devices ' 17 (ALC17), (2017) pp. 368-370	Doping Effects of Boron on Mechanical Properties of Ultrananocrystalline Diamond/Amorphous Carbon Composite Films Deposited on Cemented Carbide Substrates by Coaxial Arc Plasma Deposition	1607062S 1610090S 1704022S
Ali M.Ali	Department of Applied Science for Electronics and Materials, Kyushu University	Proceedings of 11th International Symposium on Atomic Level Characterizations for New Materials and Devices ' 17 (ALC17) (2017) pp. 194-196	Hard Coating of Ultrananocrystalline Diamond/Nonhydrogenated Amorphous Carbon	1607062S 1610090S 1704022S
T. Yamashita	Advanced Power Electronics Research Center, National Institute of Advanced Industrial Science and Technology	Journal of Crystal Growth, 490 (2018), 89-96	Characterization of double Shockley-type stacking faults formed in lightly doped 4H-SiC epitaxial films	1603007A
Shohei Hayashi	Advanced Power Electronics Research Center, National Institute of Advanced Industrial Science and Technology	Japanese Journal of Applied Physics, 57(4S) (2018), 04FR07	Influence of basal-plane dislocation structures on expansion of single Shockley-type stacking faults in forward-current degradation of 4H-SiC p-i-n diodes	1603007A
Ken Motokura	Department of Chemical Science and Engineering, School of Materials and Chemical Technology, Tokyo Institute of Technology	Catalysts, 8(3) (2018), 106	Effects of Mesopore Internal Surfaces on the Structure of Immobilized Pd-Bisphosphine Complexes Analyzed by Variable-Temperature XAFS and Their Catalytic Performances	1404015F 1504037F