

《センターより》

平成 28 年科学分析支援センター機器使用研究業績

教育学部

Matsuoka K, Miyajima R, Ishida Y, Karasawa S, Yoshimura T. Aggregate formation of glycyrrhizic acid. *Colloids Surfaces, A Physicochem Eng Asp.* 2016;500:112–7.

理学部 基礎化学科

Saito Y, Nakata N, Ishii A. Highly Isospecific Polymerization of Silyl-Protected ω -Alkenols Using an [OSO]-Type Bis(phenolato) Dichloro Zirconium(IV) Precatalyst. *Macromol Rapid Commun.* 2016;37(12):969–74.

Saito Y, Nakata N, Ishii A. Copolymerization of ethylene with iPr₃Si-protected 5-hexen-1-ol with an [OSO]-type bis(phenolato) dichloro zirconium(IV) complex. *Bull Chem Soc Jpn.* 2016;89(6):666–70.

Nakata N, Watanabe T, Toda T, Ishii A. Enantio- and Stereoselective Cyclopolymerization of Hexa-1,5-diene Catalyzed by Zirconium Complexes Possessing Optically Active Bis(phenolato) Ligands. *Macromol Rapid Commun.* 2016;37(22):1820–4.

Nakata N, Toda T, Saito Y, Watanabe T, Ishii A. Highly active and isospecific styrene polymerization catalyzed by zirconium complexes bearing aryl-substituted [OSO]-type bis(phenolate) ligands. *Polym (Basel, Switzerland).* 2016;8(2):31/1–31/10.

Ishii A, Nakata N. Isospecific polymerization of α -olefins catalyzed by transition-method catalysts supported by cycloalkane-fused [OSO]-type tetridentate ligand. *Shokubai.* 2016;58(1):2–7.

Ishii A, Shibata, M, Nakata, N. 1,4-Diaryl-1-oxy-1,3-butadiene Conjugated System Incorporated in a Dibenzobarrelene Skeleton: Synthesis, Photophysical Properties, and Comparison with the Heavier Group 16 Congeners. *Bull Chem Soc Jpn.* 2016; 89(12): 1470–9.

Saito M, Furukawa S, Kobayashi J, Kawashima T. The Chemistry of Heterasumanenes. *Chem Rec.* 2016;16(1):64–72.

Pop L-C, Saito M. Serendipitous reactions involving a silicone grease. *Coord Chem Rev.* 2016;314:64–70.

Kuwabara T, Nakada M, Hamada J, Guo JD, Nagase S, Saito M. (η 4-Butadiene)Sn(0) Complexes: A New Approach for Zero-Valent p-Block Elements Utilizing a Butadiene as a 4π -Electron Donor. *J Am Chem Soc.* 2016;138(35):11378–82.

"Soft Wet-chemical Synthesis of Ru-Sn Nanoparticles from Single-source Ruthenocene-stannole Precursors in an Ionic Liquid", S. Wegner, M. Saito, J. Barthel and C. Janiak, *J. Organomet. Chem.*, 821, 192-196 (2016).

Matsuzaki T, Ito K, Masuda K, Kakinuma E, Sakamoto R, Iketaki K, et al. Quantitative Evaluation of Cancer Cell Adhesion to Self-Assembled Monolayer-Patterned Substrates by Reflection Interference Contrast Microscopy. *J Phys Chem B.* 2016;120(7):1221–7.

Yago T, Ishikawa K, Katoh R, Wakasa M. Magnetic Field Effects on Triplet Pair Generated by Singlet Fission in an Organic Crystal: Application of Radical Pair Model to Triplet Pair. *J Phys Chem C.* 2016;120(49):27858–70.

Mahito Yamamoto, Shu Nakaharai, Keiji Ueno, and Kazuhito Tsukagoshi. Self-Limiting Oxides on WSe₂ as Controlled Surface Acceptors and Low-Resistance Hole Contacts. *Nano Lett.*, 2016, 16 (4), pp 2720–2727.

前田公憲,「動物の磁気感受と化学反応の磁場効果」, 磁気と健康(磁気健康科学研究振興財団会報誌), No.28,22-26(2016).

前田公憲,「渡り鳥の光化学コンパスと分光測定」, 科学と教育, Vol. 64, 2016, No. 7, p. 332-333.

理学部 分子生物学科

Kotake T, Yamanashi Y, Imaizumi C, Tsumuraya Y. Metabolism of L-arabinose in plants. *J Plant Res.* 2016;129(5):781–92.

Sae T, Hihara Y, Yumoto I, Oriksa Y, Okuyama H, Nishiyama Y. Overexpressed superoxide dismutase and catalase act synergistically to protect the repair of PSII during photoinhibition in *Synechococcus elongatus* PCC 7942. *Plant Cell Physiol.* 2016;57(9):1899–907.

Ueno M, Sae-Tang P, Kusama Y, Hihara Y, Matsuda M, Hasunuma T, et al. Moderate heat stress stimulates repair of photosystem II during photoinhibition in *Synechocystis* sp. PCC 6803. *Plant Cell Physiol.* 2016;57(11):2417–26.

Yutthanasirikul R, Nagano T, Jimbo H, Hihara Y, Kanamori T, Ueda T, et al. Oxidation of a cysteine residue in elongation factor EF-Tu reversibly inhibits translation in the cyanobacterium *Synechocystis* sp. PCC 6803. *J Biol Chem.* 2016;291(11):5860–70.

理学部 生体制御学科

Kawamura A, Ovara H, Ooka Y, Kinoshita H, Hoshikawa M, Nakajo K, et al. Posterior-anterior gradient of zebrafish hes6 expression in the presomitic mesoderm is established by the combinatorial functions of the downstream enhancer and 3'UTR. *Dev Biol (Amsterdam, Netherlands)*. 2016;409(2):543–54.

Apu AS, Mondal A, Kitazawa T, Takemi S, Sakai T, Sakata I. Molecular cloning of motilin and mechanism of motilin-induced gastrointestinal motility in Japanese quail. *Gen Comp Endocrinol*. 2016;233:53–62.

Dudani A, Aizawa S, Zhi G, Tanaka T, Jogahara T, Sakata I, et al. The proximal gastric corpus is the most responsive site of motilin-induced contractions in the stomach of the Asian house shrew. *J Comp Physiol B Biochem Syst Environ Physiol*. 2016;186(5):665–75.

Moe Y, Kyi-Tha-Thu C, Tanaka T, Ito H, Yahashi S, Matsuda K-I, et al. A sexually dimorphic area of the dorsal hypothalamus in mice and common marmosets. *Endocrinology*. 2016;157(12):4817–28.

Moe Y, Tanaka T, Morishita M, Ohata R, Nakahara C, Kawashima T, et al. A comparative study of sex difference in calbindin neurons among mice, musk shrews, and Japanese quails. *Neurosci Lett*. 2016;631:63–9.

Yoshimura M, Mikami T, Kuroda K, Nishida M, Ito K, Mondal A, et al. Involvement of Transient Receptor Potential Vanilloid Receptor 1, (TRPV1)-Expressing Vagal Nerve in the Inhibitory Effect of Gastric Acidification on Exogenous Motilin-Induced Gastric Phase III Contractions in *Suncus murinus*. *Dig Dis Sci*. 2016;61(6):1501–11.

工学部 機械工学科

Suzuki H, Shinozuka N, Matsuo R, Ikeno J. Method for processing semiconductor substrate and semiconductor substrate. Jpn. Kokai Tokkyo Koho. Shin-Etsu Polymer Co., Ltd., Japan; Saitama University .; 2016. p. 16pp.

工学部 電気電子システム工学科

Yamaguchi K, Nakagawa H, Aoyagi M, Naruse M, Myoren H, Taino T. Fabrication of superconducting tunnel junctions with embedded coil for applying magnetic field. *Phys C Supercond Its Appl (Amsterdam, Netherlands)*. 2016;530:90–2.

Nakayama T, Naruse M, Myoren H, Taino T. Fabrication of TiN/AlN/TiN tunnel junctions. *Phys C Supercond Its Appl (Amsterdam, Netherlands)*. 2016;530:87–9.

工学部 應用化学科

Yamanaka H, Yamamoto K, Sakuragi T, Ohshima M, Nagashima S, Kurokawa H, et al. Ethylene oligomerization using quinoline-imine nickel(II) complex immobilized in fluorotetrasilicic mica interlayer by one-pot preparation method. *J Mol Catal A Chem.* 2016;425:275–82.

Kurokawa H, Miura H, Wakabayashi S, Kimura N. Method for producing a conjugated diene. Jpn. Kokai Tokkyo Koho. JX Nippon Oil & Energy Corporation, Japan; Saitama University .; 2016. p. 10pp.

Kurokawa H, Ichijo T, Kimura N. Method for producing conjugated diene. Jpn. Kokai Tokkyo Koho. JX Nippon Oil & Energy Corporation, Japan; Saitama University .; 2016. p. 16pp.; Chemical Indexing Equivalent to 165:469331 .

Kurokawa H, Ichijo T, Kimura N. Method for manufacturing conjugated diene, and reaction device. Jpn. Kokai Tokkyo Koho. JX Nippon Oil & Energy Corporation, Japan; Saitama University .; 2016. p. 21pp.; Chemical Indexing Equivalent to 165:440620 .

Kurokawa H. Polymerization/oligomerization of ethylene using supported late transition-metal complexes as heterogeneous catalysts. *Shokubai.* 2016;58(1):38–43.

Nagashima S, Takahashi T, Nasrin N, Kamiguchi S, Chihara T. Synthesis of chromenes by cyclizative condensation of phenols with α , β -unsaturated carbonyl compounds over halide cluster catalysts. *Chem Lett.* 2016;45(11):1321–3.

Shibukawa M, Nobushima D, Sakuma S, Sasaki M, Nakamura K, Matsutani Y, et al. Selective spectrophotometric determination of trace amounts of cadmium in soil and sediment samples using a green aqueous biphasic extraction. *Anal Sci.* 2016;32(10):1095–100.

Saito S, Hirose K, Tsuchida M, Shibukawa M, Sato M. Selection method of nucleic acid aptamers by using capillary electrophoresis. Jpn. Kokai Tokkyo Koho. Shino Test Corp., Japan; Saitama University .; 2016. p. 23pp.

Saito S, Hirose K, Tsuchida M, Wakui K, Yoshimoto K, Nishiyama Y, et al. Rapid acquisition of high-affinity DNA aptamer motifs recognizing microbial cell surfaces using polymer-enhanced capillary transient isotachophoresis. *Chem Commun (Cambridge, United Kingdom).* 2016;52(3):461–4.

Hirose T, Shimizu S, Qu S, Shitara H, Kodama K, Wang L. Economical synthesis of cyclic carbonates from carbon dioxide and halohydrins using K₂CO₃. *RSC Adv.* 2016;6(73):69040–4.

Hirose T, Wang X, Wang L. Method for production of cyclic carbonate from epoxides and carbon dioxide. Jpn. Kokai Tokkyo Koho. Saitama University, Japan .; 2016. p. 12pp.

Kodama K, Hayashi N, Yoshida Y, Hirose T. Direct enantioseparation of diarylmethylamines with an ortho-hydroxy group via diastereomeric salt formation and their application to the enantioselective addition reaction of diethylzinc. *Tetrahedron*. 2016;72(10):1387–94.

Kodama K, Morita R, Hirose T. Formation of Ternary Inclusion Crystal and Enantioseparation of Alkyl Aryl Sulfoxides by the Salt of Urea-Modified L-Phenylalanine and an Achiral Amine. *Cryst Growth Des*. 2016;16(9):5206–13.

Kodama K, Morita Y, Sekine E, Hirose T. A systematic study on ternary inclusion crystals consisting of dianilines and three positional isomers of ditoluoyl-L-tartaric acid. *CrystEngComm*. 2016;18(1):123–9.

Lin L, Zhang G, Kodama K, Shitara H, Hirose T. Cationic polymerization of vinyl ethers and p-methoxystyrene by a benign initiating system: Silver salt/arylmethyl halide/dialkyl sulfide. *J Polym Sci Part A Polym Chem*. 2016;54(6):861–70.

Wang L, Kodama K, Hirose T. DBU/benzyl bromide: an efficient catalytic system for the chemical fixation of CO₂ into cyclic carbonates under metal- and solvent-free conditions. *Catal Sci Technol*. 2016;6(11):3872–7.

Wang L, Zhang G, Kodama K, Hirose T. An efficient metal- and solvent-free organocatalytic system for chemical fixation of CO₂ into cyclic carbonates under mild conditions. *Green Chem*. 2016;18(5):1229–33.

Kinoshita H, Fukumoto H, Tohjima T, Miura K. Diisobutylaluminum hydride-promoted cyclization of benzyl and phenylsilyl ethers bearing a 2-(trimethylsilyl)ethynyl group: syntheses of indenes and benzosiloles. *Tetrahedron Lett*. 2016;57(31):3571–4.

Kinoshita H, Kizu R, Horikoshi M, Inoue G, Fujimoto M, Saito M, et al. Regioselective Allylation of Carbon Electrophiles with Alkenylsilanes under Dual Catalysis by Cationic Platinum(II) Species. *Synthesis (Stuttg)*. 2016;48(4):520–34.

Kinoshita H, Miyama C, Miura K. Cyclization of alk-5-ynyl ketones promoted by Tf₂NH and In(OTf)₃: selective synthesis of 5- and 7-membered carbocycles. *Tetrahedron Lett*. 2016;57(46):5065–9.

Kinoshita H, Yaguchi K, Tohjima T, Hirai N, Miura K. Diisobutylaluminum hydride-promoted cyclization of o-(trimethylsilylethynyl)styrenes to substituted naphthalenes. *Tetrahedron Lett*. 2016;57(19):2039–43.

Kakiage M, Shoji T, Kobayashi H. Low-temperature carbothermal nitridation of boron oxide induced by networked carbon structure. *J Ceram Soc Japan*. 2016;124(1):13–7.

工学部 機能材料工学科

Honda Z, Sato S, Hagiwara M, Kida T, Sakai M, Fukuda T, et al. Preparation and magnetic properties of phthalocyanine-based carbon materials containing transition metals. *J Appl Phys* (Melville, NY, United States). 2016;120(2):024902/1–024902/6.

Honda Z, Kodama T, Hagiwara M, Kida T, Okutani A, Sakai M, et al. Crystal structures and magnetic properties of the honeycomb-lattice antiferromagnet $M_2(\text{pymca})_3(\text{ClO}_4)_2$, ($M = \text{Fe, Co, Ni}$). *Solid State Sci.* 2016;59:15–8.

Toda A, Takahira K, Suzuki K, Fukuda T, Hirahara M, Kamata N, et al. Spectroscopic study of P3HT:PCBM deposited by electrospray deposition. *Polym Bull (Heidelberg, Ger.)*. 2016;73(9):2457–62.

Fukuda T, Hishinuma M, Yamagata K, Yamashita M. Optical and electrical characteristics of solvent-extracted and anisole-insoluble dyes obtained from coal tar pitch. *Mol Cryst Liq Cryst.* 2016;636(1):117–21.

Fukuda T, Kurabayashi T, Yamaki T. Optical degradation of colloidal eu-complex embedded in silica glass film using reprecipitation and sol-gel methods. *J Nanosci Nanotechnol.* 2016;16(4):3235–40.

Fukuda T, Suzuki K, Yoshimoto N, Liao Y. Controlled donor-accepter ratio for application of organic photovoltaic cells by alternative intermittent electrospray co-deposition. *Org Electron.* 2016;33:32–9.

Fukuda T, Toda A, Takahira K, Suzuki K, Liao Y, Hirahara M, et al. Molecular ordering of spin-coated and electrosprayed P3HT:PCBM thin films and their applications to photovoltaic cell. *Thin Solid Films.* 2016;612:373–80.

Yamanaka T, Masumori K, Ishikawa R, Ueno K, Shirai H. Role of Isopropyl Alcohol Solvent in the Synthesis of Organic-Inorganic Halide $\text{CH}(\text{NH}_2)_2\text{PbI}_x\text{Br}_{3-x}$ Perovskite Thin Films by a Two-Step Method. *J Phys Chem C.* 2016;120(44):25371–7.

Ohki T, Ichikawa K, Hossain J, Fujii Y, Hanajiri T, Ishikawa R, et al. Effect of substrate bias on mist deposition of conjugated polymer on textured crystalline-Si for efficient c-Si/organic heterojunction solar cells. *Phys Status Solidi A Appl Mater Sci.* 2016;213(7):1922–5.

Hossain J, Ohki T, Ichikawa K, Fujiyama K, Ueno K, Fujii Y, et al. Investigating the chemical mist deposition technique for poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) on textured crystalline-silicon for organic/crystalline-silicon heterojunction solar cells. *Jpn J Appl Phys.* 2016;55(3):031601/1–031601/7.

Nemoto N. Creation of functional peptide aptamers by cDNA display. *Seibutsu Kogaku Kaishi.* 2016;94(8):481–4.

Hossain J, Liu Q, Miura T, Kasahara K, Harada D, Ishikawa R, et al. Nafion-Modified PEDOT:PSS as a Transparent Hole-Transporting Layer for High-Performance Crystalline-Si/Organic Heterojunction Solar Cells with Improved Light Soaking Stability. *ACS Appl Mater Interfaces*. 2016;8(46):31926–34.

Funda S, Ohki T, Liu Q, Hossain J, Ishimaru Y, Ueno K, et al. Correlation between the fine structure of spin-coated PEDOT:PSS and the photovoltaic performance of organic/crystalline-silicon heterojunction solar cells. *J Appl Phys (Melville, NY, United States)*. 2016;120(3):033103/1–033103/7.

Devkota R, Liu Q, Ohki T, Hossain J, Ueno K, Shirai H. Solution-processed crystalline silicon double-heterojunction solar cells. *Appl Phys Express*. 2016;9(2):022301/1–022301/4.

Shota Kobayashi, Takuya Terai, Yuki Yoshikawa, Ryoya Ohkawa, Mika Ebihara, Masahito Hayashi, Kingo Takiguchi, and Naoto Nemoto , In vitro Selection of Random Peptides against Artificial Lipid Bilayers: A Potential Tool to Immobilize Molecules on Membranes, *Chem Commun (Camb)*, 53, 3458-3461, 2017.

Kumari A, Koyama T, Hatano K, Matsuoka K. Synthetic assembly of novel avidin-biotin-GlcNAc (ABG) complex as an attractive bio-probe and its interaction with wheat germ agglutinin (WGA). *Bioorg Chem*. 2016;68:219–25.

Hatano K, Muramatsu Y, Furukawa T, Matsuoka K. Method for detecting virus or microorganism using fluorescence-sensitized substance. *Jpn. Kokai Tokkyo Koho*. Saitama University, Japan .; 2016. p. 31pp.

T. Kimura, Maria C.Z. Kasuya, K. Hatanaka, and K. Matsuoka*, “Synthesis of Fluorinated Polymers and Evaluation of Wettability”, *Molecules* 21, #358, 2016.

Shimomura N, Egawa Y, Miki R, Fujihara T, Ishimaru Y, Seki T. A red fluorophore comprising a borinate-containing xanthene analogue as a polyol sensor. *Org Biomol Chem [Internet]*. 2016;14(42):10031–6.

Ishimaru Y, Fujiwara T. Process for the preparation of nonaromatic macrocyclic compounds containing selenium and hetero elements. *Jpn. Kokai Tokkyo Koho*. Saitama University, Japan .; 2016. p. 14pp.

Abdullah Al Mamun M, Kasahara Y, Tasaki T, Fujimori A. Spherulitic formation and characterization of partially fluorinated copolymers and their nanohybrids with functional fillers. *Polym Eng Sci*. 2016;Ahead of Print.

Meng Q, Honda S, Tezuka Y, Yamamoto T, Fujimori A. Topological “interfacial” polymer chemistry: Dependency of polymer “shape” on surface morphology and stability of layer structures when heating organized molecular films of cyclic and linear block copolymers of N-butyl acrylate-ethylene oxide. *J Polym Sci Part B Polym Phys*. 2016;54(4):486–98.

T. Kotaki, N. Nishimura, M. Ozawa, A. Fujimori, H. Muraoka, S. Ogawa, T. Korenaga, E. Suzuki, Y. Oishi, Y. Shibasaki, "Synthesis of Highly Refractive and Highly Fluorescent Rigid Cyanuryl Polyimines with Polycyclic Aromatic Hydrocarbon Pendants.", *Polym. Chem.*, 7, 1297-1308, 2016.

A. Fujimori, "Fabrication of Flexible Transparent Nanohybrid with Heat-resistant Property by Fluorinated Crystalline Polymer", Chapter 11 of "Fluorinated Polymers 2: Applications", H. Sawada, B. Ameduri eds, RSC, 2016, pp.301-352.

M. Iizuka, R. Yamato, A. Fujimori , "Control of Hierarchical Structure of Crystalline Nanofibers Based on the Cooperative Phenomena of Functional Molecular Group as the Target of Expression of New Physical Properties, Creation of Molecular Conductors and Enhancement of Thixotropic Ability", Chapter 11 of "Nanofiber Research - Researching New Highlight", Mohammed Rahman, ed, InTech open access publisher, 2016, pp.209-244.

M. Iizuka, A. Fujimori, "Fabrication and Function of "Polymer Nanosphere Multilayered Organization", Chapter 3 of "Nanosheets and Nanospheres: Types, Applications and Research Insights", Deborah Wright ed., nova publications, 2016, pp.85-132.

工学部 環境共生学科

Wang Q, Kobayashi K, Lu S, Nakajima D, Wang W, Zhang W, et al. Studies on size distribution and health risk of 37 species of polycyclic aromatic hydrocarbons associated with fine particulate matter collected in the atmosphere of a suburban area of Shanghai city, China. *Environ Pollut* (Oxford, United Kingdom). 2016;214:149–60.

Senlin Lu, Xiaojie Hao, Dingyu Liu, Qiangxiang Wang, Wenchoao Zhang, Pinwei Liu, Rongci Zhang, Shang Yu, Ruiqi Pana, Minghong Wu, Shinich Yonemochi, Qingyue Wang, Mineralogical characterization of ambient fine/ultrafine particles emitted from Xuanwei C1 coal combustion, *Atmospheric Research*, Vol.169, 17-23 (2016)

Qiyu Chen, Takumi Endo and Qingyue Wang, Characterization of microcrystalline cellulose after pretreatment with low concentrations of ionic liquid-H₂O for a pyrolysis process, *BioResources*, Vol.11(1),2797-2808 (2016).

王青躍, 伊藤恒一, 岡本敬義, 佐藤慎平, 姜兆武, 関口和彦, 董旭輝, 白文濤, 故王偉, 呂森林, 坂本和彥, 中国北部農村地域の農業廃棄バイオマス民生燃料由来のPM2.5中の炭素成分と無水糖類の特性, エアロゾル研究(Earozoru Kenkyu), Vol. 31(2), 110-120 (2016).

王青躍, 大塚岳, 董詩洋, 石原數也, 呂森林, 関口和彦, 携帯型エアサンプラーを用いた秋季における草本類花粉飛散量調査手法の検討(Autumn herbaceous pollinosis: a study of monitoring methods used for airborne Giant Ragweed pollen), 花粉学会会誌(Japanese Journal of Palynology), Vol. 61(2), 49-55 (2016).

王青躍, アレルギー・アレルゲンの実態と対策①「アレルゲンの実態と対策」大気中に浮遊する花粉・アレルゲン粒子の実態(Behavior of airborne pollen grains and their release allergenic particles), 空気清浄(Journal of Japan Air Cleaning Association), Vol. 53 (5), 318-331(2016).

H. Kuwabara, K. Sekiguchi*, K. Sankoda, K. Sakurai, R. Yamaguchi, M. Furuuchi, M. Hata, Evaluation of artifacts generated during collection of ultrafine particles using an inertial filter sampler, *Aerosol Air Qual. Res.*, Vol. 16, pp. 3063-3074 (2016. 12).

Hasegawa Y, Homma R, Ohtsuka M. Thermoelectric Module Performance Estimation Based on Impedance Spectroscopy. *J Electron Mater.* 2016;45(3):1886–93.

Mioko Otsuka, Hiroki Terakado, Yasuhiro Hasegawa, Md. Zahidul Islam, Georg Bastian, Alexander Stuck Thermal diffusivity measurement using thermographic method and performance evaluation by impedance spectroscopy for thermoelectric module Japanese Journal of Applied Physics, Vol. 55, 126601 (2016)

Murata Masayuki, Yamamoto Atsushi, Yasuhiro Hasegawa, Komine Takashi, Magnetic-field dependence of thermoelectric properties of sintered Bi90Sb10 alloy *Journal of Electronic Materials*, Vol. 45, 1875 (2016)

Takashi Komine , Tomosuke Aono, Yuta Nabatame, Masayuki Murata, Yasuhiro Hasegawa, Enhancement of Seebeck coefficient in Bi nanowires by electric field effect *Journal of Electronic Materials*, Vol. 45, 1555 (2016)

科学分析支援センター

Shimomura N, Egawa Y, Miki R, Fujihara T, Ishimaru Y, Seki T. A red fluorophore comprising a borinate-containing xanthene analogue as a polyol sensor. *Org Biomol Chem [Internet]*. 2016;14(42):10031–6. Available from: <http://xlink.rsc.org/?DOI=C6OB01695B>

Ohno K, Yamaguchi S, Nagasawa A, Fujihara T. Mechanochromism in the luminescence of novel cyclometalated platinum(II) complexes with α -aminocarboxylates. *Dalt Trans.* 2016;45(13):5492–503.

Ishimaru Y, Fujiwara T. Process for the preparation of nonaromatic macrocyclic compounds containing selenium and hetero elements. *Jpn. Kokai Tokkyo Koho*. Saitama University, Japan ;, 2016. p. 14pp