

Rare Earths 2016 in SAPPORO, JAPAN

June 5-10, 2016, Sapporo, Hokkaido, Japan

Tuesday, June 7, 2016

Coffee Break and Poster Session (1):

Hall and Corridor (1st Floor)

Tuesday, June 7, 17:00 – 18:30

Session 03. Batteries, Fuel Cell Systems, Ionic Conductors

- 1P-01 Carlos Bernuy-Lopez, Norwegian University of Science and Technology, Norway
Control of the Cation Ordering in Li-garnets and Layered Double Perovskites
- 1P-02 John Kilner, Imperial College, UK
Solid State Electrolytes for Lithium Ion Batteries: Ionic Conductivity Enhancement and Application of Garnet $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$
- 1P-03 Keisuke Hibino, Tokyo Institute of Technology, Japan
Crystal Structure of CaFe_2O_4 -type BaNd_2O_4 and Related Materials
- 1P-04 Masahiro Shiraiwa, Tokyo Institute of Technology, Japan
Improved Oxide Ion Conductivity of NdBaInO_4 by Sr and Ba Substitutions
- 1P-05 Masashi Mori, Central Research Institute of Electric Power Industry, Japan
Optimization of Doped Ceria Compositions for Use in Electrochemical Cells
- 1P-06 Takaya Fujisaki, Kyushu University, Japan
Electrical Conduction Behaviour of Yttrium-doped Strontium Zirconate in Dry Hydrogen Gas
- 1P-07 Yasuhiko Iwadate, Chiba University, Japan
Electrical Conductivity of Molten $\text{DyCl}_3\text{-NaCl}$ and $\text{DyCl}_3\text{-KCl}$ Systems: Approach to Structural Interpretations of Lanthanide Chloride Melts

Session 05. Coordination Chemistry, Analytical Chemistry, and Separation

- 1P-08 Shuhei Ogata, Aoyama Gakuin University, Japan
Isotope Effect on the Luminescence Mechanism of Lanthanide Complexes with Deuterated 1,10-Phenanthroline in the Solid State
- 1P-09 Yuki Hasegawa, Aoyama Gakuin University, Japan
Emission Enhancement Mechanism of Lanthanide Complexes Having Helical Molecular Structures in an Ionic Liquid

- 1P-10 Daichi Iwasawa, Aoyama Gakuin University, Japan
Development of a Mixed Lanthanide Complex in Single Crystal with Dual Luminescence
- 1P-11 Takuma Kawaguchi, Aoyama Gakuin University, Japan
Circularly Polarized ff-Luminescence of Europium Complexes with L-Valine Amide Derivative of 2,2'-Bipyridine
- 1P-12 Takuya Sagami, Osaka City University, Japan
Emission and Anion Sensing Properties of Amphiphilic Lanthanide Complexes Self-assembled in an Aqueous Solution
- 1P-13 Shuji Kobori, Osaka City University, Japan
Oxalate Dianion Sensing by a Macrotricyclic Dinuclear Cyclen-Metal Complex
- 1P-14 Noriaki Seko, Japan Atomic Energy Agency, Japan
Development of Scandium Recovery Adsorbent by Radiation Grafting Technique from Acidic Solution
- 1P-15 Seiichi Saiki, Japan Atomic Energy Agency, Japan
Synthesis of Aminocarboxylic Acid Type Adsorbents for Rare Earth Recovery by Radiation-induced Grafting Technique
- 1P-16 Hiroyuki Hoshina, Japan Atomic Energy Agency, Japan
Evaluation of Fibrous Grafted Adsorbent for Dysprosium Separation
- 1P-17 Hiroyuki Okamura, Japan Atomic Energy Agency, Japan
Hydration and Solvation Properties of Europium(III) Chelate in Ionic Liquids
- 1P-18 Akifumi Kurachi, Tokyo Institute of Technology, Japan
Solvation Chemistry of Lanthanide Ions in TFSA-based Ionic Liquids
- 1P-19 Hisao Kokusen, Tokyo Gakugei University, Japan
Solvent Extraction of Rare Earth Metal Ions Using Hexane-1,6-diyl bis(4,4,4-trifluoro-3-oxobutanoate) into Chloroform
- 1P-20 Yuichi Kitagawa, Hokkaido University, Japan
Molecular Design Guidelines for Large Magnetic Circular Dichroism Intensities in Lanthanide Complexes
- 1P-21 Satoshi Wada, Hokkaido University, Japan
The Relationship between the Faraday Effect and Molecular Chirality of Chiral Tb(III) Clusters
- 1P-22 Kei Yanagisawa, Hokkaido University, Japan
Photophysical Properties of a Seven-Coordinate Europium Complex with Monocapped Octahedral Geometrical Structure
- 1P-23 Saori Kayahara, Nara Women's University, Japan
Syntheses and Single Molecule Magnet Behaviors of Linear Zn(II)-Ln(III)-Zn(II) Trinuclear Complexes which Possess Pseudo Three-fold Symmetry (Ln = Tb, Dy)

- 1P-24 Takashi Kajiwara, Nara Women's University, Japan
Single Molecule Magnet Behaviors of Isostructural Zn(II)-Ln(III)-Zn(II) Tri-nuclear Complexes (Ln = Ce, Nd, Tb, and Dy)
- 1P-25 Yukiho Hosomomi, Kyushu University, Japan
Modification of E. coli for the Development of a Biosorbent of Rare Earth Elements
- 1P-26 Keisuke Ohto, Saga University, Japan
Solvent Extraction of Trivalent Rare Earths with Acidic Organophosphorus Trident Molecules
- 1P-27 Daishin Koori, Saga University, Japan
Synthesis, Crystal Structure, and Some Spectrochemical Properties of Optically Active Lutetium(III) Complex of N,N'-bis(2-hydroxybenzyl)-N,N'-bis(2-pyridylmethyl)-R-1,2-propanediamine with Chloride and Derived Thiocyanate Complex from Ligand Exchange Reaction
- 1P-28 Kengo Mori, Saga University, Japan
Syntheses, Crystal Structures, and Some Spectrochemical Properties of Yttrium(III) and Terbium(III) Complexes of Optically Active N₄O₂ Ligand Derived from 1,2-Propanediamine with Nitrate as Co-ligand

Session 06. Earth Science, Resources, and Recycling

- 1P-29 Sarangua Nergui, Akita University, Japan
Rare Metal Mineralization of the Khaldzan Burgedei Peralkaline Complex, Western Mongolia
- 1P-30 Yuji Ueki, Japan Atomic Energy Agency, Japan
Recovery of Scandium from Hot Spring Water Using Fibrous Grafted Adsorbent with Phosphoric Groups

Session 09. Luminescence (I)

- 1P-32 Hongbin Liang, Sun Yat-sen University, China
Luminescence and Energy Transfer of Ce³⁺ and Pr³⁺ in LaBSiO₅
- 1P-33 Hyun Kyoung Yang, Pukyong National University, Korea
Synthesis and Photoluminescence Properties of GdSr₂AlO₅:Eu³⁺ Red Phosphors
- 1P-34 Katarzyna Prorok, Wrocław Research Center EIT+, Poland
Green Dual-mode Luminescence from Tb³⁺/Yb³⁺ Codoped Y₂O₃ Nanoparticles
- 1P-35 Małgorzata Misiak, Wrocław Research Center EIT+, Poland
Optimization of Synthesis and Spectroscopic Properties of Nano-sized CaF₂ Crystallites Doped with Yb³⁺ and Tm³⁺ Ions
- 1P-36 Ulises R. Rodriguez-Mendoza, Universidad de La Laguna, Spain
Luminescence and Upconversion Properties of Er³⁺ and Ho³⁺ in Y₃Ga₅O₁₂ Garnets

- 1P-37 Ulises R. Rodriguez-Mendoza, Universidad de La Laguna, Spain
High Pressure Stokes and Upconverted Emission of Nd³⁺ Ions in YAlO₃ Perovskites Nano-crystals
- 1P-38 Ulises R. Rodriguez-Mendoza, Universidad de La Laguna, Spain
Spectroscopy Properties of Eu³⁺-doped Nano-garnets
- 1P-39 Victor Lavin, Universidad de La Laguna, Spain
Effects of the Chemical and Hydrostatic Pressures on the Spectroscopic Properties of Nd³⁺ Ions in Garnets
- 1P-40 Victor Lavin, Universidad de La Laguna, Spain
Random Laser Action in Stoichiometric Nd₃Ga₅O₁₂ Garnet
- 1P-41 Cancelled
- 1P-42 Xiaoyan Fu, Xiamen University of Technology, China
Mechanoluminescence Enhancement by Energy Transfer in Sr₃Al₂O₅Cl₂:Ce³⁺, Eu²⁺ Phosphor
- 1P-44 Sumio Kaizaki, Osaka University, Japan
Multifunctional Luminescence Characteristics of Rare Earth Complexes Embedded into Fibrous Clays
- 1P-45 Kazunori Matsui, Kanto Gakuin University, Japan
Reduction of Eu³⁺ to Eu²⁺ in SrAl₂O₄:Eu Prepared in Air Atmosphere
- 1P-46 Sanyang Han, National University of Singapore, Singapore
Highly Stable DNA-modified Upconversion Nanoconjugates for Deep Tissue Imaging and Drug Delivery
- 1P-47 Xiaowang Liu, National University of Singapore, Singapore
Hierarchical Control in Upconversion Nanostructures for Developing Single-particle Analytic Platform
- 1P-51 Hyun Kyoung Yang, Pukyong National University, Korea
Synthesis and Luminescent Characteristics of Red Emitting Y₄Zr₃O₁₂:Eu³⁺ Phosphor for UV Light Based White LED

Session 10. Organometallic and Organic Synthesis

- 1P-48 Seiya Fukagawa, Hokkaido University, Japan
Asymmetric Catalysts with Two Different Rare Earth Metals
- 1P-49 Marc Visseaux, Universite de Lille, France
Smart Polyisoprene Hybrid Materials from Lanthanide MOFs - Mediated Polymerization Catalysis

Thursday, June 9, 2016

Coffee Break and Poster Session (2):

Hall and Corridor (1st Floor)

Thursday, June 9, 17:00 – 18:30

Session 01. General

- 2P-01 Hiroaki Onoda, Kyoto Prefectural University, Japan
Recovery of Samarium from Cobalt - Samarium Solution Using Phosphoric Acid
- 2P-02 Kenji Ishikawa, Meiji University, Japan
Electrical Properties of $Nd_2NiO_{4+\delta}$
- 2P-03 Mona Struckmann, Justus Liebig University Giessen, Germany
The Pyridine Shielded Europium Cluster [$Eu_8Cl_{12}(OH)_6O_2$]

Session 04. Catalysts

- 2P-04 Nobuyuki Taira, National Institute of Technology, Gunma College, Japan
Photocatalytic Activity of Perovskite-type $BaLnO_3$ ($Ln = Ce, Pr, \text{ and } Tb$) Containing Tetravalent Rare-earth Ions
- 2P-05 Takuya Shibano, Kyoto University, Japan
Three Way Catalytic Reaction on Mn-modified Hexagonal $YbFeO_3$
- 2P-06 Yukiko Kawano, Oita University, Japan
Kinetics Study and Characterizations of Ammonia Synthesis over Lanthanoid-oxide Supported Ru Catalysts
- 2P-07 Kazuya Imamura, Oita University, Japan
Characterization and Kinetics Study of Ammonia Synthesis over Ruthenium Catalyst Supported on Praseodymium Oxide
- 2P-08 Masakuni Ozawa, Nagoya University, Japan
Preparation and Catalytic Properties of Eu-doped Ceria and Zirconia Nanoparticles
- 2P-09 Takashi Hattori, Nagoya University, Japan
Microstructure Control and Reduction Behavior of CeO_2 Nanoparticles on Al_2O_3

Session 07. Heavy Fermions, Metallurgy, Alloys and Intermetallics

- 2P-10 Ryosuke Nakajima, Muroran Institute of Technology, Japan
High-pressure Synthesis and Thermoelectric Properties of $Eu_xCo_4Sb_{12}$
- 2P-11 Takuto Kazama, Nihon University, Japan
Element Substitution Effects in Quasi-one Dimensional Carbide Sc_3TC_4 ($T = Co, Ru, Os$)

- 2P-12 Wei Han, Harbin Engineering University, China
Electrochemical Behavior of Pr(III) in LiCl-KCl-CuCl₂ Melts and Its Extraction on Cu Electrode
- 2P-13 Yongde Yan, Harbin Engineering University, China
Electrochemical Formation of Mg-Li-Al-La Alloy in Chloride Melts
- 2P-14 Mei Li, Harbin Engineering University, China
Electrochemical Behavior and Extraction of Gadolinium on Cu Electrodes from LiCl-KCl Melts by Formation of Cu-Gd Alloys
- 2P-15 Yun Xue, Harbin Engineering University, China
Liquid Aluminum Assisted Electrochemical Extraction of Cerium from LiCl-KCl Melts
- 2P-16 Yusuke Amakai, Muroran Institute of Technology, Japan
Superconductivity in Amorphous RE-Ru Alloys (RE = Y, La, Ce)
- 2P-17 Jiro Kitagawa, Fukuoka Institute of Technology, Japan
Illumination Effect on Superconductivity of Bulk CeFeAsO_{0.65}F_{0.35}

Session 09. Luminescence (2)

- 2P-18 Duclerc Fernandes Parra, Nuclear and Energy Research Institute, Brazil
Highly Luminescent Polycarbonate Films Doped with Diaquatris(thenoyltrifluoroacetate)europate(III) Complex - UV Exposition Effect
- 2P-19 Takayuki Nakanishi, Hokkaido University, Japan
Enhanced Luminescent Properties of Eu-activated Tungsten Polyoxometalate with β -diketonate Ligands
- 2P-20 Praveen Kumar Shahi, Banaras Hindu University, India
Multifunctionality of the Eu(TTA)₃Phen Complex
- 2P-21 Masanori Yamamoto, Hokkaido University, Japan
Photophysical Properties of Eu(III) Coordination Polymers Cross-linked with Zn(II) Complexes
- 2P-22 Christian Kruck, Universität Tübingen, Germany
New Octadentate Ligands and Corresponding Lanthanide Complexes
- 2P-23 Natsumi Itamoto, Chiba University, Japan
Enhancement of Circularly Polarized Luminescence from Chiral Eu(III) Complex through Interaction with Hydrophobized DNA
- 2P-24 Yuta Komiya, Chiba University, Japan
Mechanisms of Electrochemical Modulation of Red Emission from Europium(III) Complex Induced by Electrochromic Reaction of Viologen Derivatives
- 2P-25 Yumiko Kataoka, Nara Women's University, Japan
Ion-pair Sensing with Luminescent Ln(III) Complexes Containing Pybox Ligands

- 2P-26 Keiki Takeda, Muroran Institute of Technology, Japan
Structural Anomaly of $KLa[Pt(CN)_4]_2 \cdot 8.75H_2O$ under High Pressure
- 2P-27 Szu-Ping Lee, National Chiao Tung University, Taiwan
The Synthesis, Luminescence Properties, and Applications of Novel Rare Earth-doped Thiosilicate-based Phosphors
- 2P-28 Shuang-De Liu, National Chiao Tung University, Taiwan
Synthesize Brightly Luminescent and Color Tunable of Rare-earth Doped Cesium Lead Halide Perovskite Nanocrystals
- 2P-29 Atsushi Aruga, National Defense Academy, Japan
Structure and some Properties of Pollucite Phosphor $CsAlSi_2O_6: Eu^{2+}$
- 2P-31 Lingli Wang, Guangdong Institute of Rare Metals, China
The Influence of Oxygen Ion on the Temperature Quenching Performance of $Sr_2Si_5N_8:Eu$ Phosphors
- 2P-32 Fangming Xiao, Guangdong Institute of Rare Metals, China
The Mechanism of the Temperature Quenching Performance of $CaAlSiN_3:Eu$ Phosphors
- 2P-33 Huan Jiao, Shaanxi Normal University, China
Tunable and White-light Emission Nitride Phosphors $Ca_2Si_5N_8:Ce^{3+}, Na^+, Eu^{2+}$
- 2P-34 Shota Kumagai, Niigata University, Japan
New Near-infrared-emitting Eu^{2+} Activated Oxide Phosphors for the Single Crystalline Silicon Solar Cell
- 2P-35 Ryota Yamanashi, Niigata University, Japan
Improvement of Photoluminescence Intensity of Eu^{2+} -doped $CaAlSiN_3$ Phosphor
- 2P-36 Shintaro Ida, Kyushu University, Japan
Photoluminescence and Photocatalytic Property of Terbium(III)-doped Calcium Tantalum Oxide Nanosheet
- 2P-37 Shinnosuke Kamei, Nihon University, Japan
Synthesis of Europium Carbonate by CO_2 Blowing

Session 12. Solid State and Magnetism

- 2P-38 Yukio Hinatsu, Hokkaido University, Japan
Magnetic Ordering of Divalent Europium in Double Perovskites Eu_2LnTaO_6 ($Ln =$ Rare Earths)
- 2P-39 Hirohisa Satoh, Toyohashi University of Technology, Japan
High Temperature Phase Behavior of Single Crystal $BaEu_2Mn_2O_7$ by Thermal Treatments

- 2P-40 Ming-Han Liao, National Taiwan University, Taiwan
The Investigation of Dielectric Property Enhancement with Perpendicular Magnetic Moment in Magnetic Complex Thin Film
- 2P-41 Akira Kawashima, Hyogo University of Health Sciences, Japan
Photoswitchable Faraday Effects of EuS Nanocrystals with Au Nanoparticles
- 2P-42 Hitoshi Sato, Hiroshima University, Japan
Yb Valence State in Yb₅Rh₄Ge₁₀
- 2P-43 Kohei Nishine, Muroran Institute of Technology, Japan
Magnetoresistance in Filled Skutterudite EuFe₄As₁₂
- 2P-44 Chihiro Sekine, Muroran Institute of Technology, Japan
High-pressure Synthesis and Magnetic Properties of Rare Earth Zinc Phosphide DyZn₃P₃
- 2P-45 Shota Koyama, Nihon University, Japan
Carrier Doping Effects of the Layered Rare Earth Oxypnictides (LaO)MnPn
- 2P-46 Satoshi Okada, Nihon University, Japan
Substitution Effect of Fe on Transport Properties of the Layered Oxypnictide Sr₂ScCoPO₃ with CoP and Sr₂ScO₃ Layers
- 2P-47 Shoma Takahara, Nihon University, Japan
Magnetic Properties of Layered Rare Earth Oxypnictide (CeO)MnPn
- 2P-48 Kiyoto Kanno, Nihon University, Japan
Comparison of Thermoelectric Conductor (LaO)CuSe and (BiO)CuSe
- 2P-49 Taiga Shimomura, Nihon University, Japan
Hole-doping Effect in (LaO)Zn_{1-x}P