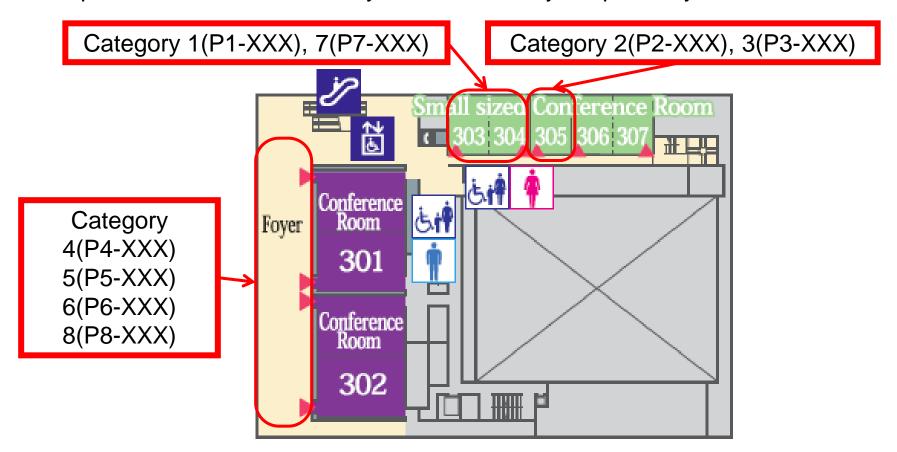
Layout of POSTER session

- ICTMC19
 Niigata 2014
- ✓ Authors are kindly asked to put up their posters from 2 September as soon as possible (from 9:00 on Tuesday), to keep them at least to 4 September (17:30 on Thursday).
- ✓ <u>Odd-numbered</u> and <u>Even-numbered</u> poster authors must be present in the poster sessions on <u>Tuesday</u> and <u>Wednesday</u>, respectively.



1.Growth and preparation techniques; bulk materials, thin films, nanostructured materials, nanoscale structures, 2.Characterization techniques, including large scale facilities, 3.Computational material design and modeling, 4.Photovoltaic materials and applications (CIGSSe, CZTS, CTS, etc.), 5.New high-efficiency solar-cell design based on multi-junction, nano-dots, mid-gap-state, and others 6.Light emitting materials and devices, 7.Spintronic, thermoelectric, multiferroic and superconductive materials and applications, 8.Miscellaneous

[P1-001] S. N. Mustafaeva: Influence of the Composition of (TIInSe2)1-x(TIGaTe2)x Alloys on Their Dielectric Properties [P1-002] S. N. Mustafaeva: Frequency-Dependent Dielectric Losses in Diluted Tlln1-xErxSe2 Solid Solutions [P1-003] N. Z. Gasanov: Tlln1-xErxS2 (x = 0-0.01) Solid Solutions and their Optical Properties [P1-004] K. Mochizuki: Thin Films Growth of Cd1-xZnxTe for X-ray Imaging Sensor [P1-005] K. Mochizuki: Growth of PbSnI4 and Its Application for Flat Panel X-ray Image Sensor [P1-006] J. Petit: Low absorption ZnGeP2 single crystals for tunable mid IR laser applications IP1-007l S. Thiru: In-situ RHEED observation of CuGaSe2/CuInSe2 super lattice grown on GaAs (001)[P1-008] O. Oltulu: Band Gap and Optical Transmission in the Fibonacci Type One- Dimensional

A5B6C7 Based Photonic Crystals [P1-009] R. Koizumi: Manufacture of electrode using nanorod-constructed ZnO for dyesensitized solar cell

[P1-010] Y. N. Aliyeva: Preparation and properties of nanodimensional diffraction lattice on the base of SmS

[P1-011] M. K. G. Odarve: Growth and Characteristics of Amorphous Silica-Modified Polyaniline Films for Ammonia Sensor Application [P1-012] R. B. Unabia: Synthesis and characterization of nanocrystalline hydroxyapatite and

[P1-013] J. G. Fernando: Effect of supercritical carbon dioxide treatment on the polarons of HCIdoped polyaniline films

[P1-014] S. A. Vhanalkar: A mild hydrothermal route to synthesis of CZTS nanoparticles ink for solar cell applications

[P1-015] T. Kato: Growth and Characterization of III-group element doped ZnSnAs2 Thin Films on InP substrates

[P1-016] H. Oomae: Low-temperature heteroepitaxial growth of InAlAs layers on ZnSnAs2/InP(001) [P1-017] R. Katsube: Electrical properties of Zn3P2 bulk crystals grown from In-P-Zn solution

[P1-018] J. P. B. Ontolan Jr.: Properties of in situ HCl-doped emeraldine polyaniline on n-Si(100) substrate for rectifying diode application [P1-019] K. Kushida: Crystallization mechanism of sol-gel synthesized spinel LiMn2O4

[P1-020] A. H. Bayramov: Semiconducting asphaltene thin films: preparation and characterization.

[P1-021] A. H. Bayramov: Optimization of preparation technology of ZnO and ZnO:Al thin films for solar cell applications [P1-022] R. M. Veguizo: Morphological and structural modifications of chemically-

prepared emeraldine polyaniline and zinc oxide in PAni/ZnO heterostructure IP1-023] O. Adiguzel: Macro and Micro Scale Aspects of Phase Transitions in Shape Memory

Alloys [P1-024] H. Iha: Effect of arsenic cracking on In incorporation into selectively-grown InGaAs layer by MBE

[P1-025] E. Hajiyev: YbAs4Se7 thin films epitaxially growth

biphasic calcium phosphate using Ca(OH)2 and (NH4)H2PO4

[P1-026] S. L. Manulat: Parameters that Influence the Growth of ZnO Nanostructures Grown via Chemical Bath Deposition Technique

[P1-027] R. Noonuruk: Effect of Annealing Temperature on Crucial Optical Properties of Fluoride doped Tin Oxide thin films grown by sol-gel route

[P1-028] R. Noonuruk: Effects of Zn-dopant on structural properties and electrochromic performance of sol-gel derived NiO thin films [P1-029] M. Yoneta: Optical property of multi-stacked CdSe/ZnSe quantum dot layers fabricated

by using alternate beam supplying method [P1-030] Y. Akaki: Synthesis of Porous CulnS2 Crystals

[P1-031] A. Mendez-Lopez: Synthesis and exfoliation studies of layered Tin Disulfide nanoparticles prepared by a Low-Cost Process

[P1-032] E. Rogacheva: Self-organization processes in ternary semiconducting solid solutions [P1-120] J. Y. Kim: Hydrothermal synthesis and characterization of Cu2SnS3 nanoparticles for solar cell applications [P1-123] I. Kotuta: One-pot hydrothermal synthesis, characterization, and electrochemical

properties of rGO/CoFe2O4 nanocomposite [P1-128] S.-S. Hou: Synthesis of Nickel Nanowires using Poly(vinyl pyrrolidone-co-acrylic acid) Copolymers as Protecting Agents

[P2-033] M. Guc: Photoluminescence characterization of Cu2ZnSiSe4 single crystals [P2-034] J.-H. Tsai: High-Performance AlGaN/AIN/GaN High Electron Mobility Transistor with Broad Gate-to-Source Operation Voltages [P2-035] K. Khalilova: Optical properties of as-prepared and annealed CdS:O thin films [P2-036] N. Gasimov: Optical constants of rare-earth-doped Y2O3 for up-conversion in thin film

solar cells [P2-037] S. N. Aliyeva: EPR spectra and AFM-analysis of thin film surfaces of (Zn, Ni) ferrites [P2-038] K. Kamimura: XAFS analysis of crystal GeCu2Te3 phase change material [P2-039] S. Shirakata: Deep absorption band in Cu(In,Ga)Se2 thin films and solar cells observed

by transparent piezoelectric photo-thermal spectroscopy [P2-040] S. Hosokawa: An x-ray fluorescence holographic study on a Bi2Te3:Mn topological

insulator [P2-041] S. Sano: Optical Characterization of ZnO Transparent Conducting Films Prepared at Low Temoeratures

[P2-042] W. Mekprasart:

coating

IP2-0431 N. Mehdivey: Polarized Detectors of irradiation on the base of highanisotoropycompounds II-III2VI4 [P2-044] O. Alekperov: Temperature Hierarchy of Ionic to Superionic Conductivity Transformation and Structural Phase Transitions in Ag2S and Ag2Se [P2-125] M. K. Jeon: Development of a gram-scale thermo-gravimetric analysis system for

Temperature on Structural Properties of Spinel Zinc Aluminate via Co-precipitation Process

Characterization and Study Effect of Calcination

chlorination reaction of zirconium alloy materialszirconium alloy materials [P3-045] O. Oltulu: Band Structure and Optical Properties of the A4B6 Layered Ferroelectrics: ab initio calculations [P3-046] N. Ashida: Numerical analysis of Cu(In,Ga)Se2 solar cells with high defect density layer at back side of absorber

[P3-047] N. Mamedov: Ab-initio Calculations of Phonon Dispersion and Lattice Dynamics in TIGaTe2 [P3-048] H. Tachikawa: Computer-Aided Molecular Design of Functional Graphene Nano-Flakes:

Density Functional Theory (DFT) Study

[P3-049] T. Iyama: Density Functional Theory (DFT) Study on Interaction of Radicals and Atoms with Graphene Surface

[P3-050] O. Alekperov: Band Structure and Vacancy Formation in β-Aq2S and β-Aq2Se: Ab-Initio Study

[P3-051] H. Orudzhev: Ab-initio study of ferromagnetism in Mn-doped ZnSnAs2

[P3-052] H.-L. Hwang: Development of Intelligent Design Tool for Non-stoichiometric Cu I-III-VI2

Photovoltaic Materials and Devices [P3-053] M. N. Huda: Determination of single-phase stability of CZTS with defects

[P4-054] R. Ishikawa, Y. Kurokawa, S. Miyajima, M. Konagai: Graphene Transparent Electrode

for Thin-Film Solar Cells [P4-055] K. Tanaka: Cu2ZnSnS4 Thin Film Solar Cell Prepared by Spray Pyrolysis [P4-056] E. Konakawa: Improvement of crystallinity of NiO thin films prepared by sol-gel spin

[P4-057] S. Miura: Properties of Zn defects in Cu2ZnSnS4 thin film

[P4-058] S. Ozaki: Optical Properties and Electronic Band Structure of Cu2ZnSnS4

[P4-059] Y. Miyata: Effect of H2S annealing for Cu-Sn-S thin films prepared from vacuumevaporated Cu-Sn precursor

- [P4-060] N. A. Abdullayev: Variable range hopping conductivity at low temperatures in CuGaS2 single crystals.
- [P4-061] J.-Y. Chang: Preparation of Eco-Friendly CulnS2 Quantum Dot-Sensitized Solar Cells [P4-062] H. Miyazawa: Effect of UV/O3 irradiation for C2ZnSnS4 thin film deposited on molybdenum by sol-gel sulfurization method
- [P4-063] T. Toyama: Impact on Water Rinse Treatment for Aged Cu2ZnSnS4 Studied by X-Ray Absorption Near Edge Structure Analysis
- [P4-064] M. Nakashima: Cu2SnS3 Thin Film Solar Cells Prepared by Thermal Crystallization of Evaporated Cu/Sn Precursors in Sulfur and Tin Atmosphere
- [P4-065] M. Nakashima: Fabrication of Cu2ZnSnSe4 Thin Films by Selenization of Precursor Using Cu2ZnSnSe4 Compound for Photovoltaic Applications
- [P4-066] K. Toyonaga: Preparation and characterization of Cu2SixSn1-xS3
- IP4-0671 R. R. K. Tulasi: Studies on In2S3/SnS Thin Film Heterojunction Solar Cell
- [P4-068] H. Miyazaki: Surface etching of CZTS absorber layer by Br-related solution
- [P4-069] H. Miyazaki: The effect of surface treatment of CZTS absorber layer by ammonia solution
- [P4-070] H. Miyazaki: The effects of preferential etching treatment of CZTS absorber layer by deionized water
- [P4-071] M. Nakajima: Structure and optical properties of CdS:O thin films by cathode sputtering
- [P4-072] R. Yoshida: Excitonic emission on CuInS2 epitaxial films by pulse laser deposition
- [P4-073] K. Oishi: Characterization of CulnS2-Cu2ZnSnS4 crystals grown from the melt
- [P4-074] H. Shimotsuma: The effect of dextrin addition when Cu2ZnSnS4 thin film prepared by photochemical deposition
- [P4-075] Y. Okuno: Electrical performance of InGaP solar cell irradiated with low energy electron beams
- [P4-076] S. Sato: Growth of Cu2SnS3 Thin Films by Sulfurization for Earth-Abundant Solar Cells
- [P4-077] Y. Watanabe: Cu2ZnSnS4 thin film deposited by the PLD method
- [P4-130] H. Hagiya: Characterization of defect phase in Cu(In,Ga)Se2 prepared by three-stage process
- [P4-078] A. K. Matiyev: Phase equilibria in the TIGaSe2 AgGaSe2
- [P4-080] R. R. K. Tulasi: Effect of Sulfurization Time on the Properties of Sulfurized SnS Films
- [P4-081] S. Yamada: The synthesis of CIGS crystal using the crank ball mill
- [P4-082] J. Kuwana: Cu2ZnSn(S,Se)4 Thin-Film Solar Cells Prepared by Ultrasonic Spray
- [P4-083] H. Ebe: Fabrication of Hybrid Perovskite Solar Cells Using Gas-Phase Reaction
- [P4-131] H. Matsumori: Epitaxial Growth of CIGS Thin Films on Mo-Coated Sapphire Substrates
- [P4-084] A. Mendez-Lopez: Hot-injection synthesis and characterization of Cu2ZnSnS4 nanocrystal ink
- [P4-126] H. S. Yang: Fabrication and characterization of Cu2ZnSn(SxSe1-x)4 thin film solar cells : Effects of composition ratio between sulfur and selenium
- [P4-127] M. G. Gang: Effect of Cu/Zn+Sn ratio on the properties of Cu2ZnSnS4 thin film and their application to solar cell
- [P5-129] M. Imaizumi: Comparison of Radiation Response of Component Subcells in IMM Triple-Junction Solar Cells Irradiated with High-Energy Electrons and Protons
- [P6-085] K. Komatsu: Blue phosphor synthesized with Eu-containing strontium aluminate by reaction on single crystalline magnesia
- [P6-086] Y.-F. Wu : Investigation on Performances of Multi-quantum Barriers in InGaN/GaN Multi-quantum Well Heterostructures
- [P6-087] H. Uchiki: Excited State Absorption in Ce-doped Ca3Sc2Si3O12 Opaque
- Polycrystalline Disc Observed by Reflective Pump-Probe Spectroscopy
- $\cite{Monthson}$ T. Tanabe: Effects of co-doping rare earth elements on photoluminescence and afterglow of SrGa2S4:Eu2+ phosphor
- [P6-089] Y.-T. Nien: Structure and Photoluminescence of Ca3(Sc,Zn)2Si3O12:Ce Green Phosphor Prepared by the Carbothermal Reduction Method

- [P6-090] H. Kominami: Synthesis of SrGa2S4:Eu Green Emitting Phosphor using Liquid Phase Process
- [P6-091] H. Kominami: Preparation and Photoluminescent Properties of Mn-doped Deep Red Emitting Phosphor under Blue to Near Ultra Violet Excitations
- [P6-092] I. Khmyrova: Numerical Simulation of Light Extraction in LEDs with the Patterned Contact
- [P6-118] N. Ohtani: Triple-layer structure inorganic-organic hybrid light-emitting diodes containing CdSe-ZnS core-shell quantum dot emitters
- [P6-124] T. Matsuda: Electroluminescence from MOS Devices with (Tb + Ba) Doped Oxide under DC and Pulse Voltage Drive
- [P7-093] E. M. Kerimova: Charge transport and thermo-emf in TIGdS2
- [P7-094] F. Mikailzade: Magnetodielectric effects in Co implanted TIInS2 and TIGaSe2 crystals [P7-095] M. Mizumaki: Electronic Structure of BaFeO3 studied by X-ray spectroscopy
- [P7-096] A. Mollaev: Transport and Structural Properties of Zn1-xMnxGeAs2 Under Pressure
- [P7-097] S. Nakamura: Preparation of Cu2SnS3 sintered compacts for thermoelectric devices
- [P7-098] R. Arslanov: Features of Clusters Regime in Mn-doped ZnGeAs2 Under High Pressure
- [P7-099] T. Maeda: Synthesis of (Tr,M)YSr2Cu2Oz (Tr: Co, Ni; M: Mo, W)
- [P7-100] R. Harasawa: Observation of picosecond electron spin relaxation in InGaAsP
- [P7-101] H. Inoue: Characterization of Ferromagnetic ZnSnAs2:Mn Thin Films using Laser-assisted Three-dimensional Atom Probe Technique
- [P7-102] H. Yoshizawa: Growth of Ferromagnetic InMnAs Thin Films by Low-temperature Molecular Beam Epitaxy on InP Substrates
- [P7-103] S. Jabarov: Crystal structure of multiferroics Ba4Sm2Fe2Nb8O30 and Ba4Gd2Fe2Nb8O30 at high pressures
- [P7-104] M. Ninomiya: Preparation and Characterization of CoFe2O4 Thin Films on MgO (100) Substrate by Metal organic Decomposition Method
- [P7-105] M. Eguchi: Structural and Thermoelectric Properties of Ternary Full-Heusler Alloys [P7-121] H. Toyota: Thermally stable thermoelectric properties of Si:B /SiGe stacked layers
- prepared on Si substrates by layer-by-layer annealing methods [P7-122] K. Noipa: Structural, optical and Magnetic Properties of Co-doped ZnO Nanorods Prepared by a thermal decomposition route
- [P8-106] K. Yoshii: Elemental substitution effects in multiferroic RFe2O4 (R: rare earths)
- [P8-107] Y.G. Shim: Temperature behavior of dielectric function spectra and optical transitions in TIGaS2
- [P8-108] M. Imanishi: Photo-induced change of surface relief on layered ternary thallium compounds
- [P8-109] K. Kuriyama: Optical band gap of Li8SiN4 with disordered structure as a cathode material of lithium secondary batteries
- [P8-110] N. A. Abdullayev: Phonon-phonon interaction in CdGa2Se4
- [P8-111] J. A. Sans: Structural and vibrational properties of CdAl2S4 under high pressure: Experimental and theoretical approach
- [P8-112] I. Kasumoglu: Pulsing current in CuGaS2 due to the applied electric field
- [P8-113] M. Hagiwara: Excitonic emission of TIGaSe2
- [P8-114] K. Ichiki: Eu 3d and 5p Electronic Structure of EuNi2(Si1-xGex)2 Studied by Hard X-Ray Photoemission Spectroscopy
- [P8-115] S. Yudate: Preparation of Europium-doped GaN and AlGaN films grown by radical-nitrogen-assisted compound-source MBE
- [P8-116] Y.-P. Chen: Micronization of Active Pharmaceutical Ingredient Using the Supercritical Carbon Dioxide Based Processes
- [P8-117] W.-Y. Sun: Nanostructured metal-organic frameworks with mixed organic ligands [P8-119] T.-S. Yang: Mechanical and antiwear properties of CrAlTiSiN composite coatings synthesized by a cathodic arc deposition process