

Poster Session
Tuesday, March 15, 2011
5:00 – 7:00 PM

Group A – Chemistry

- A1 Arthur, Jordan**
N,7,7-Tricyanoquinomethanimide as a Radical Anion Acceptor in Magnetically Ordered Materials
- A2 Cosquer, Goulven**
Ferromagnetic vs. Antiferromagnetic Exchange Interactions in Unprecedented Tetrathiafulvalene-based $3d4f$ Heterobimetallic Complexes
- A3 Janini, Philip**
Anisotropy Tensor Alignment in $\{\text{Fe}^{\text{III}}_n\text{Ni}^{\text{II}}_m\}$ Cyanometalate-based Single-Molecule Magnets
- A4 Kaszub, Wawrzyniec**
Structure and Optical Fingerprints of Spin-crossover Multiscale Dynamics in a Single Crystal of $[(\text{TPA})\text{Fe}(\text{III})(\text{TCC})]\text{PF}_6$
- A5 Keniley Jr., Lawrence**
 Ru^{II} Complex of TTF-Annulated Phenanthroline Photophysical Studies as Relevant to the Design of Photoconducting Transition Metal Complexes
- A6 Kumagai, Shohei**
Dielectric Properties of Quasi-One-Dimensional Bromide-Bridged Pd Complexes
- A7 Kusamoto, Tetsuro**
Development of $\text{Ni}(\text{dmit})_2$ Anion Radical Salts Structurally Controlled by Halogen Bonding
- A8 Lee, Sangchul**
Development of the Novel Proton-Electron Related Organic Conductor
- A9 Maesato, Mitsuhiro**
A Layered Fullerene Conductor
- A10 Morita, Takaumi**
The Control of Charge Transfer in the $[\text{Ru}_2]^{2-}$ TCNQ System: Isolation of Fully Charge-Transferred Complexes with BTDA-TCNQ $^{2-}$
- A11 Phan, Hoa**
Designing Fe(II) Spin-Crossover Complexes for Surface Functionalization
- A12 Shurdha, Endrit**
Molecule-based Magnets Synthesized from Metal Thiocyanate Complexes

- A13 Skanthakumar, Suntharalingam**
The Influence of Lattice Dimensionality on Magnetic Ordering in Nb(V)O₂⁺ Oxides with Strongly Axial Symmetry
- A14 Southerland, Heather**
Increasing the Barrier Height of Single Molecule Magnets by Incorporating Highly Anisotropic Metal Ions into Cyanide Bridged Metal Clusters
- A15 Tsujimoto, Keiji**
Development of Photo-induced Conductors using TTF Derivatives using TTF-derivatives Substituted by a BODIPY Framework
- A16 Ueda, Kouhei**
Proton Tunneling Effect in Low-temperature Proton-transfer in Four-oxygen Hydrogen-bond Ring
- A17 Wang, Jingfang**
Cyano-bridged Coordination Polymers Incorporating Linear Tricobalt Chain
- A18 Yoshida, Hiroki**
Phenazine-bridged Chains of Paddlewheel Diruthenium(II,II) Complexes
- A19 Zhang, Yuan-Zhu**
Reversible Thermally- and Photo-induced Electron Transfer in Cobalt-Iron Cyanometalates
- A20 Zhang, Zhongyue**
First Example of Main-group Binary Conducting MOFs and Their Structure-property Correlations: Tl(TCNQ) and Tl(TCNQX₂) (X = Cl, Br, I)
- A21 Zheng, Li-Min**
Size-dependent Coercivity in a Layered Cobalt Phosphonate with Ferrimagnetism

Group B – Physics

- B1 Beedle, Christopher**
Single-Molecule-Magnets: Modulation of Physical Properties and Multifunctionalization through Synthetic Modification
- B2 Brinzari, Tatiana**
Magneto-elastic Coupling in Molecule-based Materials: $[\text{Ru}_2(\text{O}_2\text{CMe})_4]_3[\text{Cr}(\text{CN})_6]$ and $\text{Mn}[\text{N}(\text{CN})_2]_2$
- B3 D'Amico, Ciro**
Out-of-Equilibrium Solid State Photochemistry
- B4 Furukawa, Tetsuya**
Magnetic and Transport Properties of $\kappa\text{-ET}_2\text{X}$ near Mott Transition
- B5 Green, Elizabeth**
High Field Proton NMR Studies of Single Crystal $\text{Per}_2\text{Pt}[\text{nmt}]_2$
- B6 Heguri, Satoshi**
Effect of Molecule inside Cage in Fullerene Superconductor
- B7 Hirata, Michihiro**
 ^{13}C NMR Investigation on the Massless-Dirac-Fermion System in the Bulk Organic Conductor $\alpha\text{-(BEDT-TTF)}_2\text{I}_3$ under Hydrostatic Pressures
- B8 Ishikawa, Tadahiko**
The Photoinduced Phase Transition in the Charge Separated Phase of the $\text{Pd}(\text{dmit})_2$ Salts
- B9 Kawamoto, Tadashi**
Novel Crystal Structure of the Organic Superconductor with T_c of 10 K Class: $(\text{BEDT-TTF})_2\text{Ag}(\text{CF}_3)_4(\text{TCE})$
- B10 Kodama, Kota**
Magnetic Field Effect on Charge Transport in $\pi\text{-d}$ System $(\text{EDT-TTFVO})_2\text{FeBr}_4$
- B11 Liu, Junjie**
High-field EPR Study of a $\text{ReCl}_4(\text{CN})_2$ Molecular Magnet Building Block
- B12 Mariette, Celine**
One Dimensional Confinement in Aperiodic Materials
- B13 Matsubara, Yoshitaka**
Photoinduced Phenomena in $[(\text{EDO-TTF})_{1-x}(\text{MeEDO-TTF})_x]_2\text{PF}_6$ Studied by Time-resolved Vibrational Spectroscopy
- B14 Morien, Chelsey**
EPR Studies of $\text{CuF}_2(\text{pyz})(\text{H}_2\text{O})_2$ Under Pressure

- B15 Murphy, Jason**
London Penetration Depth of λ -(BETS)₂GaCl₄ Superconductor
- B16 Nishihara, Taishi**
Nonequilibrium Fluctuation of Photo-induced Phase under Steady Light Irradiation in the Spin Crossover Complex
- B17 Oike, Hiroshi**
Contactless Conductivity Measurement on the Doped Triangular Lattice, κ -(ET)₄Hg_{3- δ} X₈ (X = Br, Cl) under Pressure
- B18 Onishi, Yoshito**
Domain Growth Dynamics under Infrared Irradiation in the Spin-crossover Complex [Fe(ptz)₆](BF₄)₂
- B19 Steven, Eden**
Physical Characterization of Functionalized Spider Silk for Electronic Sensing Applications
- B20 Suda, Masayuki**
Strain-induced Insulator/Superconductor Transition in Thin Single Crystals of κ -(BEDT-TTF)₂X Salts
- B21 Takagi, Rina**
¹H-NMR Study of Single-component Molecular Conductors [M(tmdt)₂] (M = Au, Cu)
- B22 Takehara, Ryosuke**
Transport Properties of the Neutral-ionic Transition Material, TTF-CA, under High Pressure
- B23 Tsuchiya, Satoshi**
Fluctuating Superconductivity under In-plane Magnetic Field in Two-dimensional Organic Superconductors
- B24 Wang, Cuihuan**
Neutron Diffraction Study of the Magnetic Structure in Magnetic Coordination Polymer CuF₂(H₂O)₂(pyz) (pyz = pyrazine)
- B25 Watanabe, Hiroshi**
Spin-structure Coupling in the Relaxation Process of the Photo-induced Phase in Spin Crossover Complex
- B26 Yoshida, Tatsushi**
Photoinduced Neutral-to-Ionic Transition of TTF-CA as Investigated by Picosecond Photon Spectroscopy

Group C – Theory

- C1 Bettis, Jerry**
Analysis of the Magnetic Structure and Spin Exchange Interactions of Multiferroic YBaCuFeO₅ by First Principles DFT Calculations
- C2 Choji, Takeshi**
Dirac Particle in Organic Conductor α -(BEDT-TTF)₂NH₄Hg(SCN)₄ Salt
- C3 Kojima, Hirotaka**
Theoretical Study on Angular Dependence of Organic Semiconductors with Herringbone Structures
- C4 Li, Sa**
Crystallographic Structure, Electronic Structure and Magnetic Properties of Cu(py_z)F₂(H₂O)₂
- C5 Liu, Jia**
Density Functional Investigation of the Spin Frustration and the Field-driven Long-range Ordering in the Honeycomb Lattice System Bi₂Mn₄O₁₂(NO₃)
- C6 Muraoka, Azusa**
2-D Model Mont-Carlo Simulation with Specific Edge Effects for Spin Crossover Nanoparticles
- C7 Nishioka, Keita**
Theory of Photoinduced Melting of Charge Separated Phase in Et₂Me₂Sb[Pd(dmit)₂]₂
- C8 Tanaka, Yasuhiro**
Theory of Nonlinear Conduction in Charge-Ordered Electron Systems on a Triangular Lattice
- C9 Terletska, Hanna**
Quantum Critical Transport near the Mott Metal-insulator Transition

Group D – Nano/Devices

- D1 Abdel Hamid, A.**
Molecular Self-association in H-bonded Liquid Mixtures in Bulk and Nanoconfined Geometry
- D2 Andrus, Matthew**
Influence of Particle Size on the Thermal CTIST of $K_3Co_k[Fe(CN)_6]_{1-n}H_2O$ Prussian Blue Analogs
- D3 Bertoni, Roman**
Ultrafast Photo-switching of Spin Crossover Nanocrystals $Mn[N(CN)_2]_2$
- D4 Bolag, Altan**
Development of Novel Semiconductors for Dye-Sensitized Solar Cell Based on 2,6-Diphenyl-4H-pyran Derivatives
- D5 Ito, Yoshikazu**
Magnetic Sponge Prepared with an Alkanedithiol-bridged Network of Co-Pd Alloy Nanoparticles
- D6 Kadoya, Tomofumi**
Organic Transistors Using Charge-transfer Complex Microparticles as Electrode Materials
- D7 Kiswandhi, Andhika**
The Temperature Dependence of the Electrical Properties of Aligned Multi-walled Carbon Nanotube Sheet
- D8 Knowles, Elisabeth**
Interface Effects on Photoinduced Magnetism in nanoscale Heterostructures of Prussian Blue Analogs
- D9 Kudo, Yasuhiko**
Electron Transport Properties of Anti-dot Graphene
- D10 Li, Goucan**
Ru Complexes of 3-Thiophene-Dipyrrin: Potential Solar Cell Sensitizers and Photoconductors
- D11 Mitoma, Nobuhiko**
Metal-contact Effect on Short Channel Graphene Field-effect Transistors
- D12 Nagoe, Atsushi**
Glass-transition Behavior of the Dilute Aqueous Solutions Confined within Nano-pores: Effect of the Development of Hydrogen-bond Network

- D13 Oku, Shinya**
Air-stable Characteristics of Flexible Complementary Inverter Consisted of Distyrylbenzene Derivatives
- D14 Ohshima, Yuki**
Direct Observation of Carrier Behavior in Ambipolar Polymer Light-emitting Transistor Using Second Harmonic Generation
- D15 Pandey, Shyam**
Dye Sensitized Thin Film Organic Solar Cells: An Approach toward Enhancing the Photon Harvesting
- D16 Quintero, Carlos**
Fluorescent Spin Crossover System for Micro-thermometry Applications
- D17 Taguchi, Dai**
Generation of Photovoltaic Effect Probed by Optical Electric-field-induced Second-harmonic Generation
- D18 Takahashi, Yuuta**
Effect of End Group Position on Conductance of Single Distributed Benzene Molecule Bridging between Au Electrodes
- D19 Tanimoto, Mizuka**
Preparation of Hexagonal Boron Nitride/Polyimide Hybrid Films Exhibiting High Thermal Conductivity
- D20 Tominaga, Kazuo**
New Design of Polypyrrole for Conducting Polymer Actuator
- D21 Yokota, Kazumichi**
Charge Transfer to Graphene from Substrate Functionalized by Self-assembled Monolayers
- D22 Yomogida, Yohei**
Ambipolar Electric Double Layer Transistors Using Organic Single Crystals