

MEETINGS AND SYMPOSIA

Nanotechnology Support Project

“Nanotechnology · Nanoscience Focused on Molecules and Materials, IV”

Organized by ISODA, Seiji
14–15 March 2006 (Kyoto, Japan)

21st Century COE on Kyoto University Alliance for Chemistry **“Chemical Biology Symposium”**

Organized by FUTAKI, Shiroh; SUGIYAMA, Hiroshi; HAMACHI, Itaru
15–16 March 2006 (Kyoto, Japan)

Special Lectures on Bioinformatics

Organized by Education and Research Organization for Genome Information Science (Leader: KANEHISA, Minoru)
24 June 2006 (Kyoto, Japan)

Dr BORK, Peer

European Molecular Biology Laboratory, Germany
“Predicting Biological Function at Different Scales”

Dr BRYANT, Steve

National Center for Biotechnology Information, USA
“CDD: NCBI’s Protein Family/subfamily Classification Database”

Prof ELLIS, Lynda

University of Minnesota, USA
“Seeking the Vertebrate Secretome”

Dr SHMULEVICH, Ilya

Institute for Systems Biology, USA
“Eukaryotic Cells Are Dynamically Ordered or Critical but Not Chaotic”

Prof PRINT, Cristin

University of Auckland, New Zealand
“What Can the Transcriptome Tell Us About Blood Vessel Walls?”

Prof SCHOMBURG, Dietmar

University of Koeln, Germany
“From Enzyme Classification and Metabolome Research to Systems Biology”

2006 Regional Meeting of Japanese Society of Microscopy, **“Kansai Branch”**

Organized by ISODA, Seiji
15 July 2006 (Kyoto, Japan)

21st Century COE on Kyoto University Alliance for Chemistry **“ICR Biofunctional Chemistry Seminar”**

Organized by KAWABATA, Takeo; FUTAKI, Shiroh
3 August 2006 (Uji, Japan)

Cyanobacteria Annotatoin Workshop

Organized by KANEHISA, Minoru
22–23 August 2006 (Kyoto, Japan)

The 56th Symposium on Coordination Chemistry of Japan **“Synergistic Effects for Creation of Functional Complexes”**

Organized by OKAZAKI, Masaaki
16 September 2006 (Hiroshima, Japan)

Prof MIYAURA, Norio
Hokkaido University

Prof NAKAZAWA, Hiroshi
Osaka City University

Prof UENO, Keiji
Gunma University

Dr TSUBOYAMA, Akira
CANON Inc.

Prof SEKIGUCHI, Akira
University of Tsukuba

20th Anniversary (40th) Symposium of the Solid-State NMR **for Materials**

Organized by HORII, Fumitaka; KAJI, Hironori et al.
16–17 October, 2006 (Kyoto, Japan)

21st Century COE on Kyoto University Alliance for Chemistry **“The 3rd Organoelement Chemistry Seminar”**

Organized by TOKITOH, Norihiro; OZAWA, Fumiyuki; SASAMORI, Takahiro; NAGAHORA, Noriyoshi
26 October 2006 (Kyoto, Japan)

A Satellite Meeting of International Conference of 43rd **Japanese Peptide Symposium/4th Peptide Engineering** **Meeting**

“Membrane-Permeable Peptides: Chemistry, Biology and Therapeutic Applications”

Organized by FUTAKI, Shiroh; MATSUZAKI, Katsumi; MORII, Takashi; NAGASAKI, Takeshi
10–11 November 2006 (Kyoto, Japan)

Kyoto Conference on Solid State Chemistry

“Transition Metal Oxides: – Past Present and Future –”

Organized by TAKANO, Mikio
14–18 November 2006 (Kyoto, Japan)

Dr KANAMORI, Junjiro

International Institute for Advanced Studies, Japan
“Magnetism in Solids—A Crossroads of Chemistry and Physics”

Prof RAO, C. N. R.

Jawaharlal Nehru Centre for Advanced Scientific Research, India
“Transition Metal Oxides: Important Directions”

- Prof AKIMITSU, Jun
Department of Physics and Mathematic, Aoyama-Gakuin University, Japan
“Pursuing Higher-Tc Superconductors—Past, Present and Future—”
- Prof RAVEAU, Bernard
CRISMAT / ENSICAEN, France
“The Impact of Crystal Chemistry upon the Magnetic and Transport Properties of Strongly Correlated Oxide Systems”
- Prof TAKAGI, Hidenori
Department of Advanced Materials, Tokyo University, Japan
“Gate-Induced Phase Change in Transition Metal Oxide Channels”
- Prof ALARIO-FRANCO, Miguel A.
Laboratorio de Química del Estado Sólido, Facultad de Química, Universidad Complutense, Spain
“The Influence of the Microstructure on the Very High Li⁺ Conductivity in LaLiTiO Type of Materials: Ahead of the Structure-Property Relations Paradigm”
- Prof KANNO, Ryoji
Department of Electronic Chemistry, Interdisciplinary School of Science and Engineering, Tokyo Institute of Technology, Japan
“Lithium Ionic Conductor, Thio-LISICON: Materials Design, Conduction Mechanism, and All Solid-State Battery”
- Prof GRENIER, Jean-Claude
I. C. M. C. B.- C. N. R. S., FRANCE
“Mixed Ionic Electronic Conducting Oxides: Advanced Materials for Intermediate Temperature Solid Oxide Fuel Cells”
- Dr SAKABE, Yukio
Murata Manufacturing Co., Ltd., Japan
“Preparation of Nano-Sized BaTiO₃ Powder for Advanced Multilayer Ceramic Capacitors”
- Dr SATO, Ken-ichi
Sumitomo Electric Industries, Ltd., Japan
“Bismuth-based High Temperature Superconducting Wires and Applications”
- Prof CAVA, Robert J.
Department of Chemistry, Princeton University, USA
“Ferromagnetism in Mn-doped BiTe and the Crystal Chemistry of Bismuth Tellurides”
- Prof MAEKAWA, Sadamichi
Institute for Materials Research, Tohoku University, Japan
“Anomalous Electronic Lattices in Cobaltates”
- Prof UEDA, Yutaka
Institute for Solid State Physics, University of Tokyo, Japan
“Have Been Fascinated with Vanadium Oxides”
- Prof ATTFIELD, J. Paul
Centre for Science at Extreme Conditions and School of Chemistry, University of Edinburgh, UK
“New Surprises in Magnetic Metal Oxides”
- Dr SHIRO, Yoshitsugu
RIKEN Spring-8 Center, Japan
“Redox Chemistry of Hemoproteins”
- Prof TOKURA, Yoshinori
Department of Applied Physics, The University of Tokyo, Japan
“Rich Electronic Phases and Gigantic Response in Transition-Metal Oxides”
- Prof FUJIMORI, Atsushi
Department of Complexity Science and Engineering, The University of Tokyo, Japan
“Oxygen *p*-Hole Character in Transition-Metal Oxides Revealed by Photoemission Spectroscopy”
- Prof GOODENOUGH, J. B.
Texas Materials Institute, ETC 9.102 The University of Texas at Austin, USA
“Orbital Ordering in Perovskites”
- Prof TAKANO, Mikio
Institute for Chemical Research, Kyoto University
“Fe⁴⁺ Oxides”
- Prof POEPELMEIER, Kenneth R.
Northwestern University, Department of Chemistry, USA.
“Enabling Photovoltaic Materials: Rational Syntheses and Properties of Transparent Conductors”
- Prof HOSONO, Hideo
Tokyo Institute of Technology, Frontier Collaborative Research Center, Japan
“Room Temperature Stable Electride: Synthesis, Properties, Electronic Structure, and Application”
- Prof HWANG, Harold Y.
Department of Advanced Materials Science, Department of Applied Physics, The University of Tokyo, Japan
“Chemistry of Oxide Heterointerfaces on the Atomic Scale”
- Prof ITOH, Mitsuru
Materials and Structures Laboratory, Tokyo Institute of Technology, Japan
“Chemical Design for Perovskite-Related Ferroelectrics”
- Prof SHIMAKAWA, Yuichi
Institute for Chemical Research, Kyoto University, Japan
“Transition-metal Oxides with Spin-Polarized Conduction Carriers: Materials and Their Applications”
- Dr KITAZAWA, Koichi
Japan Science and Technology Agency, Japan
“Three Superconducting Global Networks—Towards Renewable Energy Era—”
- Prof BATTLE, Peter
Inorganic Chemistry Laboratory, Oxford University, UK
“Cation and Charge Ordering in Perovskite-Related Structures”
- Assoc Prof SHIMOYAMA, Jun-ichi
Department of Applied Chemistry, The University of Tokyo, Japan
“Oxygen Stoichiometry and Mixed Valence States in Layered Transition Metal Oxides”
- Prof TERASAKI, Ichiro
Department of Applied Physics, Waseda University, Japan
“Unconventional Ferromagnet Sr₃RCO₄O_{10.5}”
- Prof SABRAMANIAN, Mas
Department of Chemistry, Oregon State University, USA
“Designing High Efficiency Thermoelectric Materials for Energy Harvesting: Role of Solid State Chemistry”
- Prof JANSEN, Martin
Max-Planck-Institute for Solid State Research, Germany
“The Family of Si-B-N-C Ceramics: Paving the Way to Industrial Scale Production”

Prof HASHIMOTO, Kazuhiro
Research Center for Advanced Science and Technology, The University of Tokyo, Japan
“Photo-induced Reactions on TiO₂ Surface: Fundamentals and Applications”

Prof YAMANAKA, Shoji
Department of Applied Chemistry, Graduate School of Engineering, Hiroshima University, Japan
“Chemical Modification and Superconductivity of Layer Structured Transition Metal Nitride Halides”

Prof KAWASAKI, Masashi
Institute for Materials Research, Tohoku University, Japan
“Oxide Electronics Pursuing True Application”

Prof YAN, Chun-Hua
State Key Lab of Rare Earth Materials Chemistry and Applications, Peking University, China
“Controlled Synthesis and Properties of Rare Earth Nanooxides”

Dr TAKAYAMA-MUROMACHI, Eiji
Advanced Nano Materials Laboratory, National Institute for Materials Science, Japan
“Superconducting Phase Diagram of the Sodium Cobalt Oxhydrate”

Prof YOSHIMURA, Kazuyoshi
Department of Chemistry, Graduate School of Science, Kyoto University, Japan
“Systematic Sample Preparation and Characterizations of Superconducting Na_xCoO₂·yH₂O: Anisotropic Knight Shifts and Spin Fluctuations”

Prof HIROI, Zenji
Institute for Solid State Physics, The University of Tokyo, Japan
“Rattling Behavior of Alkali Cations in β-Pyrochlore Oxide Superconductors AOs₂O₆”

Prof FUKUYAMA, Hidetoshi
Department Applied Physics, Faculty of Science, Tokyo University of Science, Japan
“B-doped Diamonds: High Temperature Superconductivity by Transforming Bonds into Bands”

Poster Presentations

Shinsuke Abe, Shiro Kambe and Osamu Ishii
Graduate School of Science and Engineering, Yamagata University, Japan
“Precise Measurement of Na and H₂O Content in Na_xCoO₂·yH₂O”

Mitsuru Akaki, Kohei Noda, Fumiaki Nakamura, Daisuke Akahoshi and Hideki Kuwahara
Department of Physics, Sophia University, Japan
“Competition between Spiral and A-type Antiferromagnetism in Multiferroic RMnO₃ Crystals”

Masaki Azuma, Sandra Carlsson, Jennifer Rodgers, Mathew G. Tucker, Shintaro Ishiwata, J. Paul Attfield, Yuichi Shimakawa and Mikio Takano
Institute for Chemical Research, Kyoto University, Japan
“Pressure Induced Charge Transfer from A to B Sites in a Perovskite BiNiO₃”

Alexei A. Belik, Tadahiyo Yokosawa, Koji Kimoto, Yoshio Matsui and Eiji Takayama-Muromachi
Advanced Nano Materials Laboratory, National Institute for Materials Science, Japan
“High-Pressure Synthesis and Properties of Solid Solutions BiMnO₃-BiScO₃”

A. Crisan, Y. Tanaka, A. Iyo, K. Tokiwa and T. Watanabe
National Institute of Advanced Industrial Science and Technology (AIST), Japan
“Coexistence of Superconductivity and Antiferromagnetism in HgBa₂Ca₄Cu₅O_y Reflected in Vortex Dynamics”

Kais Daoudi, Tetsuo Tsuchiya, Tomohiko Nakajima, Iwao Yamaguchi, Takaaki Manabe and Toshiya Kumagai
Japan National Institute of Advanced Industrial Science and Technology (AIST), Japan
“TEM Study of the La_{0.7}Ca_{0.3}MnO₃ Thin Films Grown on SrTiO₃ Substrate by ELAMOD Process: Formation Mechanism”

Kazuaki Ebata, Hiroki Wadati, Masaru Takizawa, Koji Maekawa, Atsushi Fujimori, Akira Chikamatsu, Hiroshi Kumigashira, Masaharu Oshima, Yasuhide Tomioka, Hideki Kuwahara and Yoshinori Tokura
Department of Complexity Science and Engineering, The University of Tokyo, Japan
“Photoemission Study of Mixed-valence Manganites”

Yosefu Fujiki, Akamatsu Hirofumi, Shunsuke Murai, Koji Fujita and Katsuhisa Tanaka
Industrial Solid State Chemistry Laboratory, Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Japan
“Magnetic and Magnetoptical Properties of Disordered Cadmium Ferrite Thin Films”

Tatsuo Fujii, Miki Yamashita, Shinichi Fujimori, Yuji Saitoh, Tetsuya Nakamura, Keisuke Kobayashi and Jun Takada
Department of Applied Chemistry, Okayama University, Japan
“Fe 3d - Ti 3d Inter-valence Charge Transfer of FeTiO₃”

Naoaki Hayashi, Shigetoshi Muranaka, Takahito Terashima and Mikio Takano
Graduate School of Human and Environmental Studies, Kyoto University, Japan
“Anomalous Phase Transition of SrFeO₃ Studied Using a Single-Crystalline Film”

Shigeto Hirai, Fernando Aguado, Geoffrey Bromiley and Simon Redfern
Department of Earth Sciences, University of Cambridge, UK
“Physical Properties and the Structure of CaIrO₃”

Noriya Ichikawa and Hiroshi Sakama
Department of Physics, School of Science and Technology, Sophia University, Japan
“Growth and Properties of Magnetolectric BiFeO₃ Thin Films”

Masaki Ikeda, Teppei Yoshida, Makoto Hashimoto, Atsushi Fujimori, Masato Kubota, Kanta Ono, Keiichi Unozawa, Takao Sasagawa and Hidenori Takagi
Department of Complexity Science and Engineering and Department of Physics, The University of Tokyo, Japan
“Strong Antiferromagnetic Effects in the Electron-doped High-Tc Superconductor Sm_{2-x}Ce_xCuO₄”

N. Ikeda, S. Mori, Y. Horibe and K. Yoshii
Department of Physics, Okayama University, Japan
“Ferroelectricity of Electronic in RFe₂O₄”

- Yoshinori Imai, Masatsune Kato, Yuichiro Takarabe, Takashi Noji, Tadashi Adachi and Yoji Koike
Nanomaterials Synthesis Group, Quantum Beam Science Directorate, Japan Atomic Energy Agency, Japan
“Low-temperature Synthesis of La_2CuO_4 with the T'-structure Using Molten Hydroxides”
- Yoshiyuki Inaguma and Tetsuhiro Katsumata
Department of Chemistry, Faculty of Science, Gakushuin University, Japan
“Phase Transition of a Perovskite $\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3$ ”
- S. Ishiwata, W. Kobayashi, I. Terasaki, K. Kato, M. Takata, Y. Kusano, T. Saito and M. Takano
Waseda University, Japan
“Structure-Property Relation in Sr-Co-O Systems”
- Kenji Tateishi and Nobuo Ishizawa
Ceramics Research Laboratory, Nagoya Institute of Technology, Japan
“Bond-length Fluctuation in the Orthorhombic LiMn_2O_4 —A Possible Existence of Zener-type Polarons—”
- Tsuyoshi Suwa, Nobuo Ishizawa and James R. Hester
Ceramics Research Laboratory, Nagoya Institute of Technology, Japan
“Noncentrosymmetric Polymorph of Partially-Disordered Tb_3RuO_7 ”
- Masahiko Isobe, Shigenori Koishi, Jun-Ichi Yamaura, Toru Yamauchi, Hiroaki Ueda, Hirotada Gotou, Takehiko Yagi and Yutaka Ueda
Institute for Solid State Physics, The University of Tokyo, Japan
“Metal-Insulator Transition in Hollandite $\text{K}_2\text{V}_8\text{O}_{16}$ ”
- Akira Iyo, Yasumoto Tanaka, Yasuharu Kodama, Hijiri Kito, Kazuyasu Tokiwa and Tsuneo Watanabe
National Institute of Advanced Industrial Science and Technology (AIST), Japan
“High-pressure Synthesis of Hg-12(n-1)n Multilayered Cuprates Including up to Fifteen CuO_2 Layers (n=15) in a Unit Cell”
- Cédric Tassel, Hiroshi Kageyama, Yoshitami Ajiro and Kazuyoshi Yoshimura
Department of Chemistry, Graduate School of Science, Kyoto University, Japan
“Single Crystal Growth of the Ion-Exchanged Layered Perovskite $(\text{CuCl})\text{LaNb}_2\text{O}_7$ ”
- Tetsuya Kajita, Masatsune Kato, Takashi Noji and Yoji Koike
Department of Applied Physics, Tohoku University, Japan
“A New Family of Electron-Doped Superconducting Cuprates $\text{Li}_x\text{Sr}_2\text{CuO}_2\text{X}_2$ (X = Br, I)”
- Daisuke Kan, Atsushi Ishizumi, Ryoko Kanda, Atsunobu Masuno, Takahito Terashima, Yoshihiko Kanemitsu, Mikio Takano and Yuichi Shimakawa
Institute for Chemical Research, Kyoto University, Japan
“Blue-Luminescence from Electron-doped Metallic SrTiO_3 ”
- N. Katayama, M. Nohara, M. Uchida and H. Takagi
Department of Advanced Materials Science, The University of Tokyo, Japan
“Metal to Nonmagnetic-Insulator Transition in LiVS_2 ”
- Masatsune Kato, Yoshinori Imai, Tetsuya Kajita, Takashi Noji and Yoji Koike
Department of Applied Physics, Tohoku University, Japan
“Synthesis of Oxide Superconductors by Soft-Chemical Techniques”
- Tetsuhiro Katsumata, Hiroaki Takase, Yoshiyuki Inaguma, Jacques Barbier, John E. Greedan, Lachlan Cranswick and Mario Bieringer
Faculty of Science, Gakushuin University, Japan
“Crystal and Magnetic Structures of Perovskite-type Oxyfluoride, $x\text{PbTiO}_3 - (1-x)\text{PbFeO}_2\text{F}$ ”
- Yasuharu Kodama, Manabu Hirai, Hijiri Kito, Yasumoto Tanaka and Akira Iyo
Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Japan
“Anomalous Dependence of Tc in Multi-layered Cuprate Superconductors of $(\text{Cu,C})\text{Ba}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_x$ (n = 3,4,5,6)”
- Shinji Kono, Naoki Shirakawa, Ichiro Nagai, Norio Umeyama, Kazuyasu Tokiwa and Tsuneo Watanabe
Department of Applied Electronics, Tokyo University of Science, Japan
“The Synthesis and Characterization of a Layered Perovskite $\text{Sr}_2\text{V}_{1-x}\text{Mo}_x\text{O}_4$ ”
- Nobuhiro Kumada, Yoshinori Yonesaki, Takahiro Takei and Nobukazu Kinomura
Department of Research Interdisciplinary, Graduate School of Medicine and Engineering, University of Yamanashi, Japan
“Preparation and Crystal Structure of New Niobium Oxides”
- Yasushi Kurihara and Hirohiko Sato
Department of Physics, Chuo University, Japan
“Magnetism and Conductivity in Calcium Iridate: Ca_2IrO_4 ”
- Chris D. Ling and Karina Aivazian
School of Chemistry, The University of Sydney, Australia
“Crystallographic Investigation of Oxygen Vacancies in the Misfit-layered Cobaltite ‘ $\text{Ca}_3\text{Co}_4\text{O}_9$ ’”
- Atsunobu Masuno, Jianding Yu and Yasutomo Arai
Japan Aerospace Exploration Agency, Institute of Space and Astronautical Science, Japan
“Structural and Physical Properties of BaTi_2O_5 Glasses Prepared by Containerless Processing”
- Daisuke Mori, Noriyuki Sonoyama, Atsuo Yamada, Ryoji Kanno, Masaki Azuma, Mikio Takano, Katsumi Suda and Nobuo Ishizawa
Department of Electronic Chemistry, Interdisciplinary School of Science and Engineering, Tokyo Institute of Technology, Japan
“Single-crystal Growth of $\text{Tl}_2\text{Ru}_2\text{O}_7$ Pyrochlore Using High-pressure and Flux Method”
- S. Mori, S. Shinohara, Y. Matsuo, Y. Horibe, K. Yoshii and N. Ikeda
Department of Physics, Osaka Prefecture University, Japan
“TEM Study of Charge Ordered Structure in $\text{YFe}_2\text{O}_{4-\delta}$ ”
- Hidekazu Mukuda, Yoshio Kitaoka, Shintaro Ishiwata, Takashi Saito, Yuichi Shimakawa, Hisatomo Harima and Mikio Takano
Department of Materials Engineering Science, Graduate School of Engineering Science, Osaka University, Japan
“Stepwise Magnetization and Magnetotransport in $\text{SrCo}_6\text{O}_{11}$ with Metallic Kagomé Layer and Triangular Lattice with Local Moments; ^{59}Co -NMR”

- Taiya Munenaka and Hirohiko Sato
Department of Physics, Chuo University, Japan
“A Novel Metallic Pyrochlore Ruthenate: $\text{Ca}_2\text{Ru}_2\text{O}_7$ ”
- Yuji Muraoka and Zenji Hiroi
The Graduate School of Natural Science and Technology,
Okayama University, Japan
“Persistent Photoconductivity in an SnO_2 Thin Film”
- Yohei Nagao, Jun-Ichi Yamaura and Zenji Hiroi
Institute for Solid State Physics, University of Tokyo, Japan
“Preparation and Superconducting Property of β -pyrochlore
Oxides RbOs_2O_6 and CsOs_2O_6 ”
- Kanako Nakajima and Hirohiko Sato
Institute for Physics, Chuo University, Japan
“A Novel Lithium Ruthenate: Li_8RuO_6 ”
- Tomohiko Nakajima, Tetsuo Tsuchiya and Toshiya Kumagai
Thin Films Processing Group, AMRI, Advanced Industrial
Science and Technology, Japan
“New Route for Low-temperature Fabrication of Perovskite
Titanate Phosphor Thin Film”
- Hiroaki Ueda, Tsuru Yamauchi, Kanji Ohwada, Hajime Sagayama,
Hiroshi Sawa and Yutaka Ueda
Institute for Solid State Physics, The University of Tokyo, Japan
“Devil’s Staircase Behavior of $\beta\text{-Sr}_{0.33}\text{V}_2\text{O}_5$ ”
- Seiji Niitaka, Keisuke Nishikawa, Syotaro Kimura and Yasuo
Narumi, Kouichi Kindo, Masayuki Hagiwara and Hidenori
Takagi
RIKEN (The Institute of Physical and Chemical Research),
Japan
“High-Field Magnetization Study of Heavy Fermion Oxide
 LiV_2O_4 ”
- Minoru Nohara, Hiromichi Kuriyama and Hidenori Takagi
Department of Advanced Materials Science, The University of
Tokyo, Japan
“Thermoelectric Oxide CuRhO_2 ”
- Ippei Nomoto and Hirohiko Sato
Department of Physics, Chuo University, Japan
“Synthesis of a Novel B-Fe-O Compound and Its Metamag-
netism”
- Kenya Ohgushi, Hirotada Gotou, Takehiko Yagi and Yutaka
Ueda
Institute for Solid State Physics, The University of Tokyo, Japan
“Olivine and Post-perovskite Structure as Playground for
Studying Correlated Electronic Properties”
- Daichi Kubota, Tetsuro Tanaka and Katsuyoshi Oh-ishi
Department of Applied Chemistry, Faculty of Science and
Engineering, Chuo University, Japan
“Superconductivity and Magnetic Property of $\text{Ce}_{0.15}\text{Nd}_{1.85-x}$
 $\text{Gd}_x\text{CuO}_{4-y}$ 214-n-type Superconductor”
- H. Ohta, C. Michioka, Y. Itoh and K. Yoshimura
Department of Chemistry, Graduate School of Science, Kyoto
University, Japan
“ ^{23}Na NMR Studies of Non-superconducting and Superconduct-
ing $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ ($T_c < 1.8$ and ~ 4.5 K)”
- Yoshihiko Okamoto, Minoru Nohara and Hidenori Takagi
Magnetic Materials Laboratory, RIKEN, Japan
“Spin Liquid State in $\text{Na}_4\text{Ir}_5\text{O}_{13}$ ”
- Paul J. Saines and Brendan J. Kennedy
School of Chemistry, The University of Sydney, Australia
“Electronic Transitions and Oxygen Vacancies in $\text{Ba}_2\text{LnSn}_x\text{Sb}_{1-x}$
 O_{6-d} ”
- Takashi Saito, Anthony Williams, John Paul Attfield, Tuerxun
Wuernisha, Takashi Kamiyama, Shintaro Ishiwata, Yuhki Takeda,
Yuichi Shimakawa and Mikio Takano
Institute for Chemical Research, Kyoto University, Japan
“Spin Frustration in $\text{SrCo}_6\text{O}_{11}$ ”
- Chikako Sakai, Fumihiko Matsui, Nobuaki Takahashi, Sakura
Nishino Takeda and Hiroshi Daimon
Graduate School of Materials Science, Nara Institute of Science
and Technology (NAIST), Japan
“Hybridized Orbital Symmetry Determination of the Fermi
Energy Band of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ Superconductor by Non-
polarized Light Two-dimensional Photoelectron Spectroscopy”
- Hiroya Sakurai and Eiji Takayama-Muromachi
National Institute for Materials Science, Japan
“Soft-Chemical Synthesis and Magnetic Properties of Sodium
Cobalt Oxides”
- Yusuke Sasakawa, Yusuke Nihei and Kunio Okimura
Department of Electronics, Tokai University, Japan
“X-ray Diffraction Study on Electric Field Induced Metal-
Insulator Transition of Vanadium Dioxide Films on Sapphire
Substrate Prepared by Reactive Sputtering”
- S. Iikubo, H. Koyanaka, S. Shamoto, K. Takeuchi, S. Kohara, K.
Kodama and C. -K. Loong
Quantum Beam Science Directorate, Japan Atomic Energy
Agency, Japan
“Local Structural Study of a Manganese Oxide Gold-Adsorbent”
- Neeraj Sharma, Chris D. Ling, Parry Chen and Grant Wrighte
School of Chemistry, Building F11, The University of Sydney,
Australia
“Ruthenium (IV), Iridium (IV) and Manganese (IV) Incorpora-
tion into Three-layer Aurivillius Phases”
- C. T. Shih, Y. C. Chen, H. C. Chien, J. J. Wu and T. K. Lee
Department of Physics, Tunghai University, Taiwan
“Interplay between Antiferromagnetism and Superconductivity
of the Extended t-J Model”
- D. D. Shivagan, A. Sundaresan, A. Crisan, Y. Tanaka, A. Iyo, K.
Tokiwa and T. Watanabe
Superconducting Materials Group, Nanoelectronics Research
Institute, AIST, Japan
“Development of Tl-1223 Films for the Quest of i-solitons”
- Kent Sonoda, Masaaki Fujihara, Naokazu Komiyama, Shiro
Kambe and Osamu Ishii
Human Sensing Program, Graduate School of Science and Engi-
neering, Yamagata University, Japan
“High-pressure Treatment of $\text{InBa}_2\text{CuO}_y$ without Changing
Crystal Structure”
- Jun Takada and Yoshihiro Kusano
Department of Applied Arts and Design, College of the Arts,
Kurashiki University of Science and the Arts, Japan
“Reddish Color Pattern on Traditional Japanese Bizen Stoneware”

- Keitaro Tezuka, Taro Nambo, Shan Yue Jin, Hideo Imoto and Kenji Ohoyama
Department of Applied Chemistry, Faculty of Engineering, Utsunomiya University, Japan
“Crystal Structures and Magnetic Properties of Ln_2CrS_4 (Ln = Y, Ho - Tm)”
- Tetsuya Tohei, Akihito Kuwabara, Fumiyasu Oba and Isao Tanaka
Department of Materials Science and Engineering, Kyoto University, Japan
“First Principles Study of Phonon Instability in REAlO_3 Perovskite Compounds”
- Masashi Tokunaga, Shinya Hakuta and Tsuyoshi Tamegai
Department of Applied Physics, The University of Tokyo, Japan
“Study of Electronic States in Crystals of Bismuth-based Manganites”
- T. Tsuchiya, K. Daoudi, T. Nakajima and T. Kumagai
Japan National Institute of Advanced Industrial Science and Technology (AIST), Japan
“Control of the Electrical Properties of the Epitaxial $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Thin Film by Excimer Laser Assisted Metal Organic Deposition”
- Naohito Tsujii and Hideaki Kitazawa
National Institute for Materials Science, Japan
“Synthesis and Properties of Quasi-two-Dimensional Triangular-lattice System $\text{CuCr}_{1-x}\text{V}_x\text{S}_2$ ”
- Y. Tsujimoto, Y. Baba, N. Oba, H. Kageyama, Y. Ajiro, K. Yoshimura, T. Saito, M. Takano, Y. Narumi, K. Kindo, G. J. MacDougall, A. Aczel, J. P. Carlo, P. Russo, G. M. Luke and Y. J. Uemura
Department of Chemistry, Graduate School of Science, Kyoto University, Japan
“Magnetization and Heat Capacity of a Layered Perovskite (CuBr) $\text{Sr}_2\text{Nb}_3\text{O}_{10}$ ”
- Atsushi Tsurumaki, Nao Takeshita, Yuji Muraoka, Zenji Hiroi, Hidenori Takagi and Yoshinori Tokura
Institute for Solid State Physics, The University of Tokyo, Japan
“Superconducting Properties of a $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$ Thin Film Grown on an Atomically Stepped Substrate”
- Chong Tet Vui and Shiro Kambe
Human Sensing Program, Graduate School of Science and Engineering, Yamagata University, Japan
“Effects of Zn and Ni Substituted $\text{GdBaSrCu}_3\text{O}_{7-\delta}$ Superconductor”
- T. Waki, M. Takigawa, T. Yamauchi, J. Yamaura, H. Ueda and Y. Ueda
Institute for Solid State Physics, The University of Tokyo, Japan
“NMR Study on a Single Crystal of $\beta\text{-Sr}_{0.33}\text{V}_2\text{O}_5$ ”
- Dan Wang and Ranbo Yu
Key Laboratory of Multi-phase Reaction Institute of Process Engineering Chinese Academy of Science, China
“Size and Morphology Control of $\alpha\text{-Fe}_2\text{O}_3$ Particles”
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Center for Crystal Science and Technology, University of Yamanashi, Japan
“Effects of Dopant in Molten Zone during Crystal Growth of Rutile by Traveling Solvent Floating Zone Method”
- Takeshi Yajima, Tomohiro Takayama and Hidenori Takagi
Department of Advanced Materials Science, The University of Tokyo, Japan
“Orbital Ordering in NaNiO_2 —towards ‘Orbital’ Refrigeration—”
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Correlated Electron Research Center (CERC), National Institute of Advanced Industrial Science and Technology (AIST), Japan
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- Ikuya Yamada, Masaki Azuma, Kazuki Ohishi, Yuichi Shimakawa and Mikio Takano
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“Single Crystal Growth of Calcium Oxychloride Superconductors $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ and $\text{Ca}_{2-x}\text{CuO}_2\text{Cl}_2$ at High Pressure”
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Magnetic Materials lab., RIKEN (The Institute of Physical and Chemical Research), Japan
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- Toru Yoshida, Hiroaki Hayamizu, Hiroyuki Yohida and Zenji Hiroi
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- D. Yoshizumi, Y. Muraoka and Z. Hiroi
Institute for Solid State Physics, The University of Tokyo, Japan
“Correlation between Conductivity and Order/Disorder State of Na Ions in Na_xCoO_2 ”
- K. Kugimiya, K. Fujita, K. Tanaka and K. Hirao
Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Japan
“Magnetic and Transport Properties of Oxygen Deficient $\text{EuTiO}_{3-\delta}$ Thin Films Prepared by the PLD Method”
- Nanao, Horiishi
TODA KOGYO CORP., Japan
“Studies of Iron Oxides, Ancient but Still Developing Family of Materials”

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Osaka University
“Synthesis and Characterization of Discrete Sandwich Com-
pounds Containing Palladium Chains or Sheets”

Assoc Prof LEONG, Weng Kee
National University of Singapore
“Our Attempts at Connecting Organometallic Clusters with
Nanoscience and Biology”

Dr TAKAO, Toshiro
Tokyo Institute of Technology
“Coupling Reaction of Pyridines Catalyzed by Di- and Trinuclear
Ruthenium Clusters”

Assoc Prof OKAZAKI, Masaaki
Kyoto University
“Introduction of Functional Groups onto the Fe₄C₄ Clusters”

Assoc Prof KAWAGUCHI, Hiroyuki
Institute for Molecular Science
“Early Transition Metal Complexes Bearing Phenoxide Multi-
dentate Ligands”

Prof XI, Zhenfeng
Peking University
“Development of Bimetallic Reagents for Organic Synthesis”

Dr NISHIURA, Masayoshi
RIKEN
“Reactivity of Metal-Carbon Bond in Metal-Carborane and
Metal-Carbonyne Complexes”

Prof XIE, Zuowei
The Chinese University of Hong Kong
“Reactivity of Metal-Carbon Bond in Metal-Carborane and
Metal-Carbonyne Complexes”

Assoc Prof ICHINOHE, Masaaki
University of Tsukuba
“Synthesis, Structure, and Reactivity of Stable Disilyne”

Assoc Prof OHSHIMA, Takashi
Osaka University
“Development of New Direct Catalytic Reactions Using Metal
Cluster Complexes”

Assoc Prof OGASAWARA, Masamichi
Hokkaido University
“Catalytic Asymmetric Synthesis of Planar-Chiral Metallocenes”

Assoc Prof LEE, Bun Yeoul
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“Bimetallic Catalysis for Polymer Synthesis”

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Prof JONES, David
University College London, UK
“Progress in Predicting Protein Folds and Protein-protein Inter-
actions from Amino Acid Sequence”

Prof WONG, Limsoon
National University of Singapore
“Exciting the Reluctant Bioinformatician”

Prof BLOMBERG, Anders
Göteborg University, Sweden
“To Bridge the Gap between the Theoretical and Experimental
Worlds - the Swedish National Research School in Genomics
and Bioinformatics”

Dr EBENHÖH, Oliver
Humboldt University Berlin, Germany
“Combining Education in Systems Biology and Bioinformatics”
(In place of the late Prof HEINRICH, Reinhart)

Prof KANEHISA, Minoru
Kyoto University and University of Tokyo
“Bioinformatics Education Integrating Basic Sciences and Prac-
tical Applications”