
Poster Presentation (P)

Enclosed poster No. (□) indicates entry to APES2014 Poster Award and IES Poster Award

(P-1) **EPR Spin Probe Investigation of Surface Structure Analyses of Skin**

Kouichi Nakagawa, S. Minakawa, and D. Sawamura

(P-2) **Localization of EPR probes and labeled drugs in nanocarriers and their penetration and release in skin**

S. B. Lohan, N. Icken, C. Teutloff, R. Bittl, J. Lademann, E. Fleige, M. Unbehauen, R. Haag, S. F. Haag, M. C. Meinke

(P-3) **EPR studies of the conformational states of Aurora-A kinase's activation loop**

Maria Grazia Concilio, Alistair J Fielding

(P-4) **The Cu²⁺ coordination environment of α -synuclein revealed by site-specific isotopic labeling of 56 residue N-terminal peptides**

Simon C. Drew

(P-5) **Investigation of Glass Surface Coating for *In-situ* Electron Paramagnetic Resonance Measurement of Reactive Oxygen Species in Adherent Cells**

Takahiro Ando and Yoshiki Yonamoto

(P-6) **Competitive binding of metal ions to the octarepeat region of human prion protein**

Masahiro Yagi, Kazuya Iwama, Haruto Onda and Wakako Hiraoka

(P-7) **ESR Spectroscopy on Metal binding Sites in Cu²⁺-Transporting ATPase Protein**

Satoshi Yasuda, Takuya Horimoto, Hiroaki Daimon, Yasuhiro Ueda, Naoyuki Kuwabara, and Toshiaki Arata

(P-8) **Catecholase Activity of a Distant Dicopper Complex and Photodissociation of Ru(III) Nitrosyl Complex: Monitoring by Electron Paramagnetic Resonance**

Shuranjan Sarkar, Jamghoon Cho, and Hong-In Lee

(P-9) **Multi-Frequency, Multi-technique Pulsed EPR Characterization of the Copper-Amyloid Peptides Relevant to Alzheimer's Disease**

Sun Hee Kim

(P-10) **Effects of Nanoscale Curvature on Structure, Dynamics, Phase Properties and Surface Electrostatics of Lipid Bilayers**

Alex I. Smirnov, Amir Koolivand, Antonin Marek, and Maxim A. Voinov

Presentations by High School Students (P-11, P12, P13)

(P-11) **ESR Study by High School Students (1) Evaluation of Ultraviolet (UV)-Protection Properties of Sun Protection Cosmetics**

Hiroki Nakajima, Mai Okahashi, Yuki Shimizu, Atsushi Kajiwara

(P-12) **ESR Study by High School Students (2) Detection of Paramagnetic Species in the Familiar Foods by ESR**

Hiroki Nakajima, Rina Aoi, Asuka Itakura, Yuma Tanaka, Atsushi Kajiwara

(P-13) **ESR Study by High School Students (3) Detection of Paramagnetic Species in the Insects by ESR**

Hiroki Nakajima, Wakana Kakuo, Yuumi Mabuchi, Atsushi Kajiwara

(P-14) **Nitric oxide mediates TLR4-NF- κ B signaling in mice with DSS-induced colitis**

Xin Tun, Keiji Yasukawa and Ken-ichi Yamada

(P-15) High-Frequency ESR Measurements of Shallow Doped Si:P at Low Temperatures and Their Extension to Lower Temperatures for High $\mu_B B/k_B T$

K. Morimoto, Y. Fujii, S. Mitsudo, T. Mizusaki, H. Kikuchi, A. Fukuda, A. Matsubara, T. Ueno, M. Gwak, S.G. Lee, S. Lee, Tadaaki Saito and S. Vasiliev

(P-16) **Simultaneous and spectroscopic imaging of free radical intermediates using in vivo dynamic nuclear polarization-MRI**

Fuminori Hyodo, Shinji Ito, Keiji Yasukawa, Hinako Eto, Ryoma Kobayashi and Hideo Utsumi

(P-17) **Estimation of relative reaction rate of hydroxy radical with anti-oxidants using ESR spin trapping combined with water radiolysis**

Seiko Nakagawa and Masayuki Sekiguchi

(P-18) ESR study on thermal metamorphism of kerogen in sedimentary rocks

Mayu Suzuki, Chihiro Yamanaka

(P-19) **Radiation-induced Defects in Artificially Weathered Quartz and Relation to the OSL (Optically Stimulated Luminescence) Properties**

Chihiro Yamanaka, Akira Osada and Masashi Takada

(P-20) **The decisive factor of clay quality and color of Bizen pottery**

Yuki Matsuoka, Ko Furukawa and Toshikazu Nakamura

(P-21) **EPR-Application in dermatology - in vitro and in vivo investigations**

M. C. Meinke, A. Friedrich, A. C. Lauer, S. Arndt, S. Ahlberg, S. F. Haag, S. B. Lohan, J. Lademann

(P-22) **Mechanism Study on Nitration of Arylboronic Acids with Nitrates by ESR**

Haijun Yang, Min Jiang, Yong Li and Hua Fu

(P-23) 4'-CyanoPLP Presents Better Prospect for the EPR Detection of Elusive Cyclic Intermediate Radical in the Reaction of Lysine 5,6-aminomutase

Amarendra Nath Maity and Shyue-Chu Ke

(P-24) **Multifrequency (X-band to W-band) CW EPR of the crude oil and by-products**

Eduardo Di Mauro, Marilene Turini Piccinato and Carmen Luisa Barbosa Guedes

(P-25) **Evaluation of Anti-oxidative Materials of 13 Mushrooms by ESR**

Tomomi Kanno, Kumiko Yamamoto, Etsuko Harada, Hiromi Kameya, Mitsuko Ukai and Toshihiko Osawa

(P-26) **Ultrasound-induced activation of caged compounds**

Haruko Koura, Risa Fuji, Asuka Kato, Masato Mutoh and Wakako Hiraoka

(P-27) **Enhancement of vitamin D3-induced differentiation in PLB-985 cells by modulating oxidative stress**

Hiroaki Tanaka, Hiroyuki Kato, Omi Nawa, Asuka Kato, Masato Mutoh and Wakako Hiraoka

- (P-28) **Correlation between number of C-C double bonds and relaxation times of polyenyl radicals as studied by CW-ESR spectroscopy**
Takatoshi Sawai, Yoji Yamaguchi
- (P-29) **Radical reaction induced by UV-irradiated ketoprofen in liposomal membranes**
Shoko Okazaki, Takuro Nagata, Megumi Takemoto, Yusuke Shogomori, Ayako Hirata and Keizo Takeshita
- (P-30) **Measurement of Density of Hydroxyl Radical Generation in Water Induced by Low-LET Radiation**
Yukihiro Ogawa, Ken-ichiro Matsumoto and Shingo Fujisaki
- (P-31) **Superoxide radical scavenging activity of cooked rice as studied by HPLC-ESR spin-trapping measurements**
Tomoko Yamaguchi, Gen Httori, Kenji Kanaori, Kunihiko Tajima, Isamu Tachimoto
- (P-32) **Direct ESR Observations of Radical Polymerization of N-Vinylcarbazole**
Ryosuke Matoba, Atushi Kajiwara
- (P-33) **Electrochemical ESR Cell for Determination of Redox Potentials of Transient Radicals**
Tatsumi Tetsuya and Atsushi Kajiwara
- (P-34) **Oxidation mechanism of poly(vinyl alcohol) with persulfate anion radical as studied by spin trapping ESR and LC/MS**
Yuko Nishihara, Toshimitsu Inoue, Tomoko Yamaguchi, Toru Ikegami, Yusuke Miyake, Kenji Kanaori, Kunihiko Tajima
- (P-35) **Influence of plasma gas species on bacterial inactivation and reactive species production by plasma-bubbling**
Toshihiro Takamatsu, Yosuke Watanabe, Hidekazu Miyahara, Yuriko Matsumura, Atsuo Iwasawa, Masahiro Kohno and Akitoshi Okino
- (P-36) **Investigation of Reactive Species Generated by Various Gas Plasmas using ESR Spin Trapping Method**
Yuriko Matsumura, Toshihiro Takamatsu, Kodai Uehara, Yota Sasaki, Hidekazu Miyahara, Atsuo Iwasawa, Masahiro Kohno and Akitoshi Okino
- (P-37) **EPR in the Identification of Fe³⁺ Compounds and Free Radicals of Seeds**
Bruna F. Gazzoni, Daniel F. Valezi, Felipe R. Benatti, Eduardo Di Mauro and Carmen L. B. Guedes
- (P-38) **Recent Developments of Multi-Extreme THz ESR in Kobe**
H. Ohta, S. Okubo, E. Ohmichi, T. Sakurai and S. Hara
- (P-39) **Improvement of sensitivity on parallel CW-EPR image acquisition system**
Ayano Enomoto and Hiroshi Hirata
- (P-40) **Simulation of RF magnetic fields in Crossed loop resonators for 300 MHz Pulsed EPR**
Tatsuya Ishii and Hiroshi Hirata
- (P-41) **Bismuth Germanium Oxide as Perspective Material for Dielectric Resonators in EPR Spectroscopy**
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Mikhail Ivanov, Sergey Veber, Elena Bagryanskaya, Matvey Fedin, Vladimir Nadolinniy, Gennady Kuznetsov

- (P-42) **Quantitative Spin-trapping ESR Investigation of Alkoxy Radical Thermally Derived from AAPH: Development of a Flow-injection Spin-trapping ESR System for the ORAC-ESR Assay**

Akira Nakajima, Tomoko Yamaguchi, Tomoyuki Yamashita, Naoto Yamamoto, Kenji Kanaori, and Kunihiko Tajima

- (P-43) **Development of High Pressure Cyclotron Resonance System and Application to Dirac Fermion System**

Ryosuke Matsui, Takahiro Sakurai, Susumu Okubo, Hitoshi Ohta, Reizo Kato, Masayuki Suda, Kazuyuki Matsubayashi, Yoshiya Uwatoko

- (P-44) **Development of High Pressure and Multi-frequency ESR System and Its Application to Quantum Spin System**

Takahiro Sakurai, Ryosuke Matsui, Kohei Kawasaki, Susumu Okubo, Hitoshi Ohta, Kazuyuki Matsubayashi, and Yoshiya Uwatoko

- (P-45) **Development of high pressure ESR system using micro-coil**

Kohei Kawasaki, Eiji Ohmichi, Takahiro Sakurai, Hitoshi Ohta, Susumu Okubo, Kazuyuki Matsubayashi, Yoshiya Uwatoko

- (P-46) **Application of cantilever-detected ESR to biological systems**

T. Okamoto, E. Ohmichi, and H. Ohta

- (P-47) **Artifact suppression in electron paramagnetic resonance imaging of ^{14}N and ^{15}N -labeled nitroxyl radicals with asymmetric absorption spectra**

Wataru Takahashi, Yusuke Miyake and Hiroshi Hirata

- (P-48) **Highly sensitive force detection system for high-frequency ESR measurement**

Akiho Ishikawa, Eiji Ohmichi, Hitoshi Ohta

- (P-49) **Time-Resolved Faraday Rotation Study on Photo-Excited Triplet State of Organic Molecule in Solutions**

Tomoaki Yago and Masanobu Wakasa

- (P-50) **Cantilever-detected ESR measurement using a frequency modulation technique**

R. Tabuse, E. Ohmichi and H. Ohta

- (P-51) **Recent advances in cantilever-detected ESR technique**

E. Ohmichi, R. Tabuse, A. Ishikawa, T. Okamoto and H. Ohta

- (P-52) **Functional EPR imaging of isolated and perfused rat hearts: monitoring of tissue oxygenation and pH**

Artem A Gorodetsky, Igor A Kirilyuk, Denis A Komarov

- (P-53) **Whole-body kinetic images of pyrrolidine redox probes by redox molecular imaging (ReMI)**

Nuttavut Kosem, Fuminori Hyodo, Noppawan Phumala Morales, Kazuhiro Ichikawa, Keiji Yasukawa and Hideo Utsumi

- (P-54) **Longitudinal ESR imaging of tumor oxygenation for cancer radiotherapy combined with the metabolic-targeted drug**
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Hironobu Yasui, Keita Saito, Naoya Nishida, Shingo Matsumoto, Tohru Yamamori, Murali C. Krishna and Osamu Inanami

(P-55) **Time Course Analysis of Radiation Induced Alteration of Tissue Redox Status Using MR Redox Imaging**

Mizuki Nakamura, Sayaka Shibata, Yoshikazu Ozawa, Megumi Ueno, Ken-ichiro Matsumoto, Ken-ichi Yamada, Tadashi Kamada, and Ichio Aoki

(P-56) **Development of MRI probe linking with nitroxide**

Tomonori Shirouzu, Toshihide Yamasaki, and Ken-ichi Yamada

(P-57) **EPR Spectroscopy and Oxygen Imaging for Evaluation of the Transient Induction of Tumor Hypoxia and Potentiation of Bioreductively Activated Hypoxia-activated Prodrug TH-302**

Yoichi Takakusagi, Shingo Matsumoto, Keita Saito, Masayuki Matsuo, Shun Kishimoto, Jonathan W. Wojtkowiak, Robert J. Gillies, James B. Mitchell, Charles P. Hart and Murali C. Krishna

(P-58) **Combined EPR and Optical Imaging to Reveal Oxidative Stress and Microstructure in Human Atherosclerotic Plaques**

Mikael Lindgren, Pål Ellingsen, Morten Kildemo, Magnus Lilledahl, Martin Hallbeck, Helene Zachrisson and Håkan Gustafsson

(P-59) **Mechanosynthesis of the (α,β)-PbF₂ fine powders doped with rare-earth ions**

I.A. Irisova, A. A. Rodionov, D. A. Tayurskii, and R. V. Yusupov

(P-60) **Structural dynamics in a “breathing” metal-organic framework studied by Electron Paramagnetic Resonance of nitroxide spin probes**

Alena M. Sheveleva, Daniil I. Kolokolov, Anton A. Gabrienko, Alexander G. Stepanov, Sergey A. Gromilov, Inna K. Shundrina, Renad Z. Sagdeev, Matvey V. Fedin, Elena G. Bagryanskaya

(P-61) **Magnetostructural correlations for the Ni²⁺ (³A₂; S=1) ions**

Muhammed Açıkgoz, Paweł Gnutek and Czesław Rudowicz

(P-62) **Temperature dependence of the structural, magnetic and vibrational properties of KGd(WO₄)₂ single crystal**

S. M. Kaczmarek, G. Leniec², L. Macalik, J. Hanuza, A. Pietraszko, T. Bodziony, T. Skibiński

(P-63) **EPR of phosphorus in diamond crystals. An influence of nitrogen impurity, HTHP treatment and high phosphorus concentration**

V. A. Nadoliny, Yu. N. Palyanov, A. Yu. Komarovskikh, I. N. Kupriyanov

(P-64) **Dipolar and Exchange Coupling in (bis-Salicylaldiminatthiocarbohydrazonodicopper(II), A Sulphur Bridged Dimeric Copper(II) Complex**

Rajendra BOSE Muthukumar, Aditya P. Koley, Balaji Sambandam, and Periyakaruppan T. Manoharan

(P-65) **ESR/CESR and Magnetic Susceptibility Studies of Electronic and Magnetic Structures of Nanographites**

Albert M. Ziatdinov and Nikita S. Saenko

(P-66) **ESR Signature of Metallic State in Semicrystalline conjugated Polymers Doped with Fluoroalkylsilane Molecules**

Hisaaki Tanaka, ShunWatanabe and Shin-ichi Kuroda

(P-67) (withdrawn)

(P-68) **High frequency ferromagnetic resonance study of Heusler compounds using a micro-cantilever**

Alexey Alfonsov, Eiji Ohmichi, Ahmad Omar, Sabine Wurmehl, Berndt Büchner, Brian Peters, Fengyuan Yang, Hitoshi Ohta

(P-69) **EPR and Magnetic Investigations of Nanoparticles of Colossal Magnetodielectric $\text{La}_2\text{NiMnO}_6$**

K. S. Bhagyashree, S. Ranjeet, and S. V. Bhat

(P-70) **Effect of Size Reduction on Magnetic Ordering in $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x = 0.35, 0.65$ and 0.92) Manganites: Magnetic and EMR Studies**

Lora Rita Goveas, K. S. Bhagyashree, Anuradha K. N., S.V.Bhat

(P-71) **An EPR Study of Magnetic Properties of Polyaniline**

Boris Rakvin

(P-72) **Novel type of organic conductor, self-doped $\text{TTF}(\text{COONH}_4)$ and Its Analogs**

Toshikazu Nakamura, Ko Furukawa, Takeshi Terauchi, Yuka Kobayashi

(P-73) Antiferromagnetic to Paramagnetic Transition of Goethite ($\alpha\text{-FeOOH}$) by ESR

Daniel F. Valezi, Marilene T. Piccinato, Paulo W. C. Sarvezuk, Flávio F. Ivashita, Andrea Paesano Jr., J. Varalda, Dante H. Mosca, Carmen L. B. Guedes and Eduardo Di Mauro.

(P-74) **Analysis of polymer degradation by ESR imaging**

Hideyuki HARA

(P-75) **Estimation of Wheat Flour Ash Contents using ESR**

Hiromi Kameya, Mizuki Tsuta, Kaori Fujita, Setsuko Todoriki and Junichi Sugiyama

(P-76) Electron Magnetic Resonance Studies on Nanosized $\text{Nd}_{0.65}\text{Ca}_{0.35}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$ ($x=0, 0.06$) Manganite

Daly Paul, K.N. Anuradha, K.S.Bhagyashree and S.V. Bhat

(P-77) **Improper Ferroelastic $\text{MgBF}_6 \cdot 6\text{H}_2\text{O}$ (B-Si, Ge) Crystals in the Incommensurate States: EPR and Group-Theoretical Studies**

Peter G. Skrylnik and Albert M. Ziatdinov

(P-78) **New Method for Obtaining Highly Resolved ESR spectrum of Aligned Radical**

Masaya Nakamura and Tatsuhisa Kato

(P-79) Unusual Electric Properties of Binuclear Rhenium Complexes with Biimidazolate Ligands in a Mixed-Valence State as Studied by Single-Crystal ESR Spectroscopy and Quantum Chemical Calculations

Takeshi Yamane, Kazunobu Sato, Shunsuke Tatsumi, Kenji Sugisaki, Yuki Kanzaki, Kazuo Toyota, Daisuke Shiomi, Makoto Yoshizawa, Makoto Tadokoro and Takeji Takui

(P-80) **Time resolved EPR study on photoinduced intermediates in photoactive interface of the perovskite solar cell**

Kousuke Miyazaki, Taku Miura, Masasi Hasegawa, Yuhei Ogomi, Takashi Tachikawa, Shuji Hayase, Yasuhiro Kobori

(P-81) Study on Magnetophotoconductance in Fullerene-Based Diode

Yusuke Wakikawa, Takuya Otori, and Tadaaki Ikoma

(P-82) **Electron spin resonance study of room-temperature ferromagnetism in proton-irradiated fullerene**

Do wan Kim, Kyu Won Lee, Gi Wan Jeon, and Cheol Eui Lee

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- (P-83) **Electron spin resonance study of thermally treated glassy carbon**
Gi Wan Jeon, Hyun Jin Cho, Do wan Kim, Kyu Won Lee, and Cheol Eui Lee
- (P-84) **Morphology effect on the geometry of the photoinduced charge-separated states in RR P3HT:PCBM blend films studied by time-resolved EPR**
Taku Miura, Takashi Tachikawa, Yasuhiro Kobori
- (P-85) **Annealing Effect on Photocarrier Dynamics in P3HT Thin Film Studied by Time-resolved Magnetophotoconductance Measurements**
Satomi Akaishi, Christopher E. Ambe, Yusuke Wakikawa, Tomoaki Miura, and Tadaaki Ikoma
- (P-86) **Detrapping Reaction of H Atoms From Silsesquioxane Cages in Organic Solvents**
Kenji Komaguchi, Tetsuya Maeda, Ryota Okayama, Ichiro Imae and Yutaka Harima
- (P-87) **Spin Dynamics of Photoconductive Donor-Acceptor-type Covalent Organic Framework (COF)**
Ko Furukawa, Toshikazu Nakamura, Shangbin Jin, Long Chen and Donglin Jiang
- (P-88) **Pulse EPR detection of UV light generated spins on an Al doped TiO₂ crystal**
Ikuko Akimoto and Takao Sekiya
- (P-89) **Electrically Detected Spin Resonance Of Hydrogenated Amorphous Silicon At Room Temperature**
A. M. See, D. R. McCamey and Alex R. Hamilton
- (P-90) **Molecular Mechanism of Apoptotic BAX Activation Revealed by Spin-label ESR**
Yun-Wei Chiang, Chia-Jung Tsai, Tai-Ching Sung, and Yei-Chen Lai
- (P-91) **Using bound fatty acids to disclose the solution structure of serum albumin**
Jörg Reichenwallner, Dariush Hinderberger
- (P-92) **Accurate orientation PELDOR measurements and analysis of the Rx bi-functional spin label for protein structure refinement**
Johannes E. McKay, Michael Stevens, Hassane EL Mkami, David G. Norman and Graham Smith
- (P-93) **Time resolved EPR study on photoinduced primary charge-separated state of the PSII reaction center from spinach**
Masashi Hasegawa, Masaki Tsushima, Takashi Tachikawa, Hiroyuki Mino, Yasuhiro Kobori
- (P-94) **Time-resolved EPR Measurements of Y_Z Radical in Photosystem II Detected by High Frequency Magnetic Field Modulation**
Wataru Koinuma and Hiroyuki Mino
- (P-95) **Electron Paramagnetic Resonance Lineshape and Spin-spin Interaction of Doubly Labeled Protein in a Denaturation Process**
Yasunori Ohba, Munehito Arai, Tetsuya Itabashi, Jun Abe, Toshikazu Nakamura, Satoshi Takahashi, Seigo Yamauchi
- (P-96) **Structural dynamics of cardiac troponin regulated by phosphorylation, as studied by spin-labeling dipolar EPR spectroscopy**
Chenchao Zhao, Takayasu Somiya, Tomoki Aihara, Hiroaki Yamashita, Shoji Ueki, and Toshiaki Arata
- (P-97) **Calcium-dependent structural dynamics of actin and tropomyosin in the thin filament with bound myosin heads in rigor state as studied by spin-labeling EPR spectroscopy**
K. Ueda, A. Yamamoto, Y. Ueda, T. Aihara, S. Ueki, M. Miki, and T. Arata
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(P-98) **Nucleotide-dependent Displacement and Dynamics of α -1 Helix in Motor Protein Kinesin Superfamily As Revealed by Site Directed Spin Labeling ESR**

S. Yasuda, N. Furutani-Umezu, T. Yanagi, M. Yamada, S. Maruta, and T. Arata

(P-99) **Substrate specificity of the cobalamin uptake system in *E. coli* studied by EPR spectroscopy**

Benesh Joseph, Arthur Sikora, Katja Barth, Martin Held, Gunnar Jeschke, Enrica Bordignon, David S. Cafiso and Thomas F. Prisner

(P-100) Arbitrary Waveform Pulse ESR at Very Low Temperatures: Multiple Excitation using Phase-ramped Gaussian Pulses

Yung Szen Yap, Yutaka Tabuchi, Shuuhei Tanijima, Makoto Negoro, Akinori Kagawa and Masahiro Kitagawa

(P-101) **Molecular Spin Manipulation by Pulsed Electron Multiple Resonance Technique for Molecular Spin Quantum Computers**

Kazunobu Sato, Shigeaki Nakazawa, Ayaka Tanaka, Tomohiro Yoshino, Kenji Sugisaki, Shinsuke Nishida, Tomoaki Ise, Yasushi Morita, Kazuo Toyota, Daisuke Shiomi, Masahiro Kitagawa, and Takeji Takui

(P-102) Molecular Spin based Adiabatic Quantum Computers: Implementation of Pulse Sequences

Satoru Yamamoto, Shigeaki Nakazawa, Kenji Sugisaki, Kazunobu Sato, Kazuo Toyota, Daisuke Shiomi Takeji Takui

(P-103) **Determination of the Fine-Structure Tensors and Double Quantum Transitions for Iminonitroxide-Nitroxide Diradicals in Magnetically Diluted Single Crystals as Studied by CW/Pulsed ESR**

S. Nakazawa, M. Kawamori, K. Sugisaki, K. Toyota, D. Shiomi, K. Sato, K. Omukai, T. Furui, M. Kuratsu, S. Suzuki, M. Kozaki, K. Okada and T. Takui

(P-104) **A Nitrogen Nuclear-Spin Manipulation in Single Crystals for the Use of Molecular Spin Qubits by ELDOR-NMR technique**

Ayaka Tanaka, Kazunobu Sato, Tomohiro Yoshino, Shinsuke Nishida, Shigeaki Nakazawa, Robabeh Rahimi, Kazuo Toyota, Daisuke Shiomi, Yasushi Morita, Masahiro Kitagawa and Takeji Takui

(P-105) **Dichotomy of 3d Electrons in $\text{YbT}_2\text{Zn}_{20}$ (T=Co; Fe): An ESR Study**

V.A. Ivanshin, T.O. Litvinova, S. Jia, S.L. Bud'ko, P.C. Canfield

(P-106) **DFT-Based Calculations of the Spin-Orbit Term in Zero-Field Splitting Tensors: The Corrected QRO Method**

Kenji Sugisaki, Kazuo Toyota, Kazunobu Sato, Daisuke Shiomi, Masahiro Kitagawa and Takeji Takui

(P-107) High-Field Multi-Frequency ESR in the Rare-Earth Spinel Compound CdYb_2S_4

Daichi Yoshizawa, Takanori Kida, Satoru Nakatsuji, Kensuke Iritani, Tetsuya Takeuchi, and Masayuki Hagiwara

(P-108) **High-field ESR facility and related research at Wuhan National High Magnetic Field Center**

Z. W. Ouyang, M. Y. Ruan, H. Nojiri, S. Okubo, and H. Ohta

(P-109) ODMR study of systems with $(\text{CdMn})\text{Te}/(\text{CdMg})\text{Te}$ quantum wells

D.O. Tolmachev, A.S. Gurin, N.G. Romanov, B.R. Namozov, Yu.G. Kusrayev, P.G. Baranov

(P-110) **EPR and DFT Investigation of Hydrogen-Producing Bioinspired Catalysts**

Özlen Ferruh Erdem, Wolfgang Lubitz

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- (P-111) **Electric Field Effect on Electron-Spin Coherence Time of Single NV center in Diamond**
Satoshi Kobayashi, Hiroki Morishita, Shinji Miwa, Yoshishige Suzuki, Norikazu Mizuochi
- (P-112) (withdrawn)
- (P-113) **High Field ESR Measurements of the Spin Gap System in Polarized Light**
Shojiro Kimura, Kazuo Watanabe, Takanari Kashiwagi, Hironori Yamaguchi, Masayuki Hagiwara, and Zentaro Honda
- (P-114) **Magnetic Anisotropy in Chiral System CuB_2O_4 by ESR**
Sho Arakawa, Susumu Okubo, Hitoshi Ohta, Takahiro Sakurai, Shigeo Hara, Mitsuru Saito, Takahisa Arima
- (P-115) **High Field ESR Measurements of Two Dimensional Antiferromagnets $\text{Sr}_2\text{NiO}_3\text{X}$ (X=F,Cl)**
Syota Yoshida, Shigeo Hara, Takahiro Sakurai, Susumu Okubo, Hitoshi Ohta, Yoshihiro Tsujimoto, Kazunari Yamaura, Teturo Uchikoshi
- (P-116) **High Field ESR Measurements of Quasi One Dimensional Frustrated Magnet $\text{NaCuMoO}_4(\text{OH})$**
Yoko Kitahara, Sihigeo Hara, Takahiro Sakurai, Susumu Okubo, Hitoshi Ohta, Kazuhiro Nawa, Yoshihiro Okamoto, Zenji Hiroi
- (P-117) **High-field ESR Measurements of YCrO_3 and YCaCrO_4**
Shohei Ikeda, Shigeo Hara, Takahiro Sakurai, Susumu Okubo, Hitoshi Ohta, Ting Hui Kao, Hiroya Sakurai, Hung-Duen Yang
- (P-118) **Development of Magnetization and XMCD Detection ESR**
Hiroyuki Nojiri and Satoshi Matsuzawa
- (P-119) **High-field multi-frequency ESR in the quasi-1D $S=1/2$ Ising-like antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$ in a transverse field**
Akira Okutani, Shojiro Kimura, Tetsuya Takeuchi and Masayuki Hagiwara
- (P-120) **The Effective Spin Model and ESR Measurements of an $S = 1/2$ Ferromagnetic Alternating Double Chain, $m\text{-Ph-V}_2$**
Kenji Iwase, Hironori Yamaguchi, Toshio Ono, Takanori Kida, Masayuki Hagiwara and Yuko Hosokoshi
- (P-121) **Carbonate Free Radical Production on Addition of Hydrocarbonate to a Weak Acidic Mixture of Rats' Gastric Carcinogen, N-Methyl-N'-Nitro-N-Nitrosoguanidine, and Hydrogenperoxide**
Tomiko Mikuni, Masaharu Tatsuta, Idota Atsushi and Tomoyukieue Yamasaki
- (P-122) **High-field ESR Measurements of Low-dimensional Magnets in Natural Minerals**
Susumu Okubo, Yoko Kitahara, Syota Yoshida, Shigeo Hara, Takahiro Sakurai, Hitoshi Ohta, Masashi Fujisawa and Hidekazu Tanaka
- (P-123) **ESR Studies of the Molecular Spin Liquid System $\text{EtMe}_3\text{Sb}[\text{Pd}(\text{dmit})_2]_2$**
Yugo Oshima, Takao Tsumuraya and Reizo Kato
- (P-124) **Numerical study of dynamical susceptibility in one dimensional trimerized spin systems**
Keigo Hijii, Toru Sakai, Seiji Miyashita and Hitoshi Ohta
- (P-125) **Magnetic Anisotropy of the Distorted-Diamond-Chain Compound $\text{Cu}_3(\text{MoO}_4)_2(\text{OH})_2$**
Shigeo Hara, Hirohiko Sato, Takahiro Sakurai, and Hitoshi Ohta
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- (P-126) **Molecular orientation and dynamics of NN radicals in organic 1D nanochannels**
Hirokazu Kobayashi
- (P-127) Transient Nutation studies of nitroxide derivatives of fullerene C60**
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