

Poster Session

- P-01 High temperature thermoelectric properties of layered oxide $\text{Ca}_{2-x}\text{Bi}_x\text{MnO}_4$
Fumiya Kawashima, Xiangyang Huang, Kei Hayashi, Yuzuru Miyazaki, Tsuyoshi Kajitani
- P-02 Copper phthalocyanine thin films on Si(001): Surface morphology and thermoelectric properties
Takashi Shinano, Kei Hayashi, Tsuyoshi Kajitani
- P-03 Inelastic neutron scattering study on triangular lattice antiferromagnet CuFeO_2
Tomohiro Nozaki, Kei Hayashi, Tsuyoshi Kajitani
- P-04 Design of UHF RFID antennas with integrated matching circuitry for bio-engineering applications
Sang-su Seong, Koji Kotani, Takashi Ito
- P-05 MOVPE growth mechanism of high-quality N-Polar GaN on (0001)-Plane sapphire
Nobuyuki Morigi, Masashi Nakao, Takashi Matsuoka
- P-06 Synthesis of GaN powders via thermal decomposition of gallium EDTA complexes in ammonia
Yuhuai Liu, Hideto Miyake, Kazumasa Hiramatsu, Atsushi Nakamura, Nobuyoshi Nambu
- P-07 STT microwave oscillation on domain wall magneto-resistance elements with $\text{Fe}_{0.5}\text{Co}_{0.5}\text{-AlO}_x$ NOL
Hiroaki Endo, Kazushige Shirafuji, Hiroaki Suzuki, Masaaki Doi, Masashi Sahashi
- P-08 Study on the formation mechanism of a nano-conductive channel in Cu-AlO_x CCP-NOL for CPP-GMR spin valves by magnetization process
Shohei Kawasaki, Shigeru Nou, Yohei Shiokawa, Tomonori Mano, Masaaki Doi, Masashi Sahashi
- P-09 Domain wall magneto-resistance in spin-valves with $\text{Co}_{0.9}\text{Fe}_{0.1}$ nano-contacts embedded in Ta_2O_5 nano-constriction-oxide-layer
Yoshinobu Saki, Tomonori Mano, Shohei Kawasaki, Masaaki Doi, Masashi Sahashi
- P-10 Variation of Interlayer Coupling for CoFe/Cu (2 nm)/ CoFe on $\text{Co}_{1-x}\text{Fe}_x/\text{Cr}$ -NOL
Kazuya Sawada, Koichi Futatsukawa, Masaaki Doi, Naoya Hasegawa, Masashi Sahashi
- P-11 Characteristics of STT microwave oscillation on domain wall magneto-resistance elements
Kazushige Shirafuji, Hiroaki Endo, Hiroaki Suzuki, Masaaki Doi, Masashi Sahashi
- P-12 Adaptation of CoFe-AlO_x NOL on the synthetic antiferromagnet
Yohei Shiokawa, Yoshinobu Saki, Shohei Kawasaki, Yuki Yamada, Masaaki Doi, Masashi Sahashi
- P-13 CPP-GMR of alternate monatomic $[\text{Fe/Co}]_n$ superlattice with Au spacer
Tomonori Mano, In Chang Chu, Masaaki Doi, Masashi Sahashi
- P-14 Growth of MoO_2 nanotube
Hiroyuki Handa, Toshimi Abe, Maki Suemitsu
- P-15 Synthesis of magnetic-atom endohedral fullerene using electron cyclotron resonance plasma
Go Yokokura, Hiroyasu Ishida, Toshiro Kaneko, Shohei Nishigaki, Rikizo Hatakeyama
- P-16 Solvent effect on Ag nanoparticles capped with myristates
Mana Saito, Kanae Michioka, Chang-Dae Keum, Kaoru Tamada
- P-17 The changes of work function in azobenzene disulfides by photoisomerization
Takeshi Nagahiro, Haruhisa Akiyama, Kaoru Tamada, Masahiko Hara
- P-18 Biological molecule irradiation toward single-walled carbon nanotubes in micro electrolyte plasma
Yu Hirotsu, Toshiro Kaneko, Keisuke Uchida, Kazuhiko Baba, Yongfeng Li, Rikizo Hatakeyama
- P-19 Manipulation of DNA in a porous anodic alumina film and in-situ detection of it using infrared absorption spectroscopy
Ryotaro Yamaguchi, Ken-ichi Ishibashi, Ko-ichiro Miyamoto, Yasuo Kimura, Michio Niwano
- P-20 A new architecture for high-density high-performance SGT NOR flash memory
Takuya Kadowaki, Yoshizumi Yamakawa, Hiroki Nakamura, Yasuo Kimura, Michio Niwano, Fujio Masuoka
- P-21 Fast scan of chemical images based on multi-light LAPS
Yohei Kuwabara, Ko-ichiro Miyamoto, Shin'ichiro Kanoh, Tatsuo Yoshinobu
- P-22 Multi-point LAPS measurement in flow channels
Atsushi Matsuzaka, Ko-ichiro Miyamoto, Shin'ichiro Kanoh, Tatsuo Yoshinobu
- P-23 Application of EIS capacitive sensor to micro channels
Kazutoshi Morihiro, Ko-ichiro Miyamoto, Shin'ichiro Kanoh, Tatsuo Yoshinobu
- P-24 Light-addressable potentiometric sensor (LAPS) platform for biotechnological processes
Torsten Wagner, Marcus E. M. Baumann, Simone Gröbel, Manfred Biselli, Tatsuo Yoshinobu, Michael J. Schöning

- P-25 Modular solid-state sensor system for cell-culture process development
 Matthias Bäcker, Stefan Beging, Torsten Wagner, Manfred Biselli, Michelangelo Canzoneri, Arshak Poghosian, Werner Zang, Michael J. Sohöning
- P-26 A BCI system using event-related potentials with auditory stream segregation
 Tomohisa Yamagishi, Shin'ichiro Kanoh, Ko-ichiro Miyamoto, Tatsuo Yoshinobu
- P-27 Effect of feedback training on EEG-based BCI system to detect motor imagery
 Masafumi Takahashi, Shin'ichiro Kanoh, Reinhold Scherer, Tatsuo Yoshinobu, Nozomu Hoshimiya, Gert Pfurtscheller
- P-28 Rapid prototyping of an EEG-based online BCI system: Development of a generic platform
 I Putu Susila, Shin'ichiro Kanoh, Ko-ichiro Miyamoto, Tatsuo Yoshinobu
- P-29 Advanced soft-heating technique for cancer therapy
 Tetsuya Takura, Fumihiro Sato, Hidetoshi Matsuki, Setsuya Aiba, Tadakuni Sato
- P-30 Numerical analysis on effects of ear shapes on head-related transfer functions
 Saho Sekimoto, Yukio Iwaya, Yôiti Suzuki
- P-31 Two-input two-output speech enhancement using adaptive filter and soft decision mask filter
 Ai Sasaki, Shuichi Sakamoto, Satoshi Hongo, Junfeng Li, Yôiti Suzuki
- P-32 Effects of frequency-modulated sounds on the perceived magnitude of self-motion induced by vestibular information
 Mikio Seto, Shuichi Sakamoto, Maori Kobayashi, Kenzo Sakurai, Jiro Gyoba, Yôiti Suzuki
- P-33 Effects of time-expanded speech on detection and tolerance thresholds of audio-visual asynchrony
 Shun Numahata, Shuichi Sakamoto, Akihiro Tanaka, Atsushi Imai, Tohru Takagi, Yôiti Suzuki
- P-34 Measuring speech intelligibility: Overview of the test procedures developed in the Oldenburg group, and some analyses of the influence of presentation form in monosyllabic tests
 Helga Sukowski, Thomas Brand, Kirsten C. Wägener, Birger Kollmeier
- P-35 Instantaneous compression - A model based hearing aid algorithm
 Thomas Bisitz, Volker Hohmann
- P-36 Temporal characteristics of visual attention measured by steady-state visual evoked potentials
 Yoshiyuki Kashiwase, Kazumichi Matsumiya, Ichiro Kuriki, Satoshi Shioiri
- P-37 Balanced reorganization of hippocampal CA3 neural network in vitro
 Osamu Kikuchi, Norihiro Katayama, Akihiro Karashima, Mitsuyuki Nakao
- P-38 A three-dimensional model of hippocampal tissue for assessment of multisite electrode characteristics
 Takashi Kubo, Norihiro Katayama, Osamu Kikuchi, Akihiro Karashima, Mitsuyuki Nakao
- P-39 Complex-valued ICA-based real-time spike sorting system for multisite electrode recordings
 Yasushi Shiraishi, Norihiro Katayama, Tetsuya Takahashi, Osamu Kikuchi, Akihiro Karashima, Mitsuyuki Nakao
- P-40 Active propagation of Na⁺ spike in dendrite induces cannabinoid-receptor dependent suppression of GABAergic response in hippocampal CA1 neurons
 Sachi Takeda, Hiroshi Tsubokawa
- P-41 Increase in variance of the excitatory postsynaptic currents induced by application of prostaglandin D₂ in hippocampal neurons
 Kazuki Matsuda, Mie Sakata, Naomi Eguchi, Hiroshi Tsubokawa
- P-42 Detection of cardiac function during rotary blood pump assistance
 Telma Keiko Sugai, Akira Tanaka, Makoto Yoshizawa, Daisuke Ogawa, Yasuyuki Shiraishi, Tomoyuki Yambe, Shin-ichi Nitta
- P-43 Tissue characterization of coronary artery using intravascular ultrasound imaging
 Shuo Li, Yoshifumi Saijo, Akira Tanaka, Takahiro Iwamoto, Makoto Yoshizawa
- P-44 Quantitative evaluation of effects of visually-induced motion sickness using photoplethysmography
 Makoto Abe, Makoto Yoshizawa, Norihiro Sugita, Akira Tanaka, Shigeru Chiba, Tomoyuki Yambe, Shin-ichi Nitta
- P-45 Development and evaluation of a virtual reality scenario for rehabilitation of hemispatial neglect
 Yasuko Yoshida, Makoto Yoshizawa, Kenji Baheux, Akira Tanaka, Kenji Sengoku, Kazunori Seki, Yasunobu Handa
- P-46 Ultrasonic estimation of scatterer radius using frequency spectrum in high range for assessment of red blood cell aggregation
 Nobutaka Saitoh, Hideyuki Hasegawa, Hiroshi Kanai
- P-47 Viscoelasticity estimation of soft tissue in application of prototype ultrasonic surgical knife
 Naoki Suzuki, Hideyuki Hasegawa, Hiroshi Kanai
- P-48 Ultrasonic measurement of two-dimensional displacement of heart motion for assessment of myocardial regional strain rate
 Yasunori Honjo, Hideyuki Hasegawa, Hiroshi Kanai