

The 25th SANKEN International Symposium, Poster Presentations

Creation of new science and technology by integrating information sciences, and development to society	
P1-1	Kenta Saito (Osaka University, Japan) High-sensitive strain sensing using tunnel magnetoresistance effect
P1-2	Toshiaki Morita (Osaka University, Japan) Temperature dependence of spin-orbit torque in ferromagnet/antiferromagnet-insulator/heavy-metal tri-layer structure
P1-3	Rei Kawabata (Osaka University, Japan) Noise characterization of organic transistor circuit for light sensor array
P1-4	Xiang Li (Osaka University, Japan) End-to-end model-based gait recognition using synchronized multi-view pose constraint
P1-5	Chi Xu (Osaka University, Japan) Real-time gait-based age estimation and gender classification from a single image
P1-6	Hayato Futase (Osaka University, Japan) Towards open-domain chatbot talking from explainable behaviors
Challenges and opportunities for new materials and beam sciences toward post-COVID society	
P2-1	Yintong Huang (Osaka University, Japan) Skin-adhesive, -breathable and -compatible cellulose nanopaper for comfortable on-skin biosignal measurement
P2-2	Kazuki Omote (Osaka University, Japan) Tuning of the electrical properties of carbonized cellulose nanopaper
P2-3	Chenyang Li (Osaka University, Japan) Redispersion and aggregation behavior of surface-modified TEMPO-oxidized cellulose nanofibers as anticorrosion layers on electrodes
P2-4	Xiang Li (Osaka University, Japan) Chitin nanofiber-derived elastic carbon aerogel for frequency-tunable microwave absorption
P2-5	Thanakorn Yeamsuksawat (Osaka University, Japan) Carbonized chitin nanopaper and its photothermal heating performance
P2-6	Kosuke Takahashi (Osaka University, Japan) Anisotropic thermally conductive papers with uniaxially aligned carbon fibers embedded in cellulose nanofiber matrix

P2-7	Manabu Mizukami (Osaka University, Japan) Structure analyses of cellulose nanofibers prepared by TEMPO-mediated oxidation and potassium permanganate oxidation
P2-8	Yurika Teraoka (Osaka University, Japan) Acetylation of cellulose nanopapers prepared by TEMPO-mediated oxidation
P2-9	Jun Shirahama (Osaka University, Japan) Iodine-treated cellulose for photothermal heating
P2-10	Do Hyung Han (Osaka University, Japan) Large scale chemical bottom-up synthesis of nanostructured peroxy titanates
P2-11	Sunghun Cho (Osaka University, Japan) Synthesis of one-dimensional nanostructures in low temperature
P2-12	Shin-ichiro Tanaka (Osaka University, Japan) Momentum-resolved resonance photoelectron spectroscopic study on TiSe_2
P2-13	Yoshio Mizuta (Osaka University, Japan) Improvement of residual stress and fatigue properties of metal materials using a compact low-energy laser peening device
P2-14	Naveen Pathak (Osaka University, Japan) Electron beam chirp dexterity in staging laser wakefield acceleration
P2-15	Zhan Jin (Osaka University, Japan) Development of laser-wakefield acceleration platform
P2-16	Kai Huang (KPSI, Nat. Inst. for Quantum Sci.&Tech (QST), Japan) Investigation on the emission timings of electron bunches from laser wakefield acceleration via EO spatial decoding
P2-17	Kaoru Kobayashi (Utsunomiya University, Japan) THz source driven by femtosecond laser created plasma with applied transverse electric field in air
P2-18	Taketoshi Matsumoto (Osaka University, Japan) Upcycling silicon swarf to advanced electrode materials
P2-19	Itsuki Nishibata (Osaka University, Japan) Pulse duration dependence of dry laser peening effects in the femtosecond-to-picosecond regime
New chemical and biological approaches for society after the COVID-19 crisis	
P3-1	Jie Xu (Osaka University, Japan) Utilizing triplet-triplet energy transfer kinetics to explore the dynamics of nucleic acids at the single-molecule level

P3-2	Zuoyue Liu (Osaka University, Japan) Optical luminescence from protein-directed Au ₂₀ clusters upon hard X-ray irradiation
P3-3	Xinxi Li (Osaka University, Japan) Synthesis and photocatalytic improvement of metal-porphyrin containing nanodisks from covalent organic frameworks
P3-4	Shinobu Takizawa (Osaka University, Japan) Machine-learning-assisted multi-parameter screening for flow and electrochemical reactions
P3-5	Bimolendu Das (Osaka University, Japan) Sensing RNA internal loops and their binding molecules by a small-molecule fluorescence probe ANP77
P3-6	Jiranan Chotitumnavee (Osaka University, Japan) Design, synthesis, and biological evaluation of HDAC8-targeting PROTACs
P3-7	Sohei Nakano (Osaka University, Japan) The expression of MacAB is controlled by Rof through Rho dependent transcription termination system
P3-8	Ryohei Noma (Osaka University, Japan) A photoswitchable fluorescent protein for hours-time-lapse and sub-second-resolved super-resolution imaging
P4-1	Kyungmin Kim (Osaka University, Japan) Manipulation of metal-insulator transition in VO ₂ thin films by using step-terrace orientations of TiO ₂ (110) substrates
P4-2	Jinfeng Yang (Osaka University, Japan) Relativistic femtosecond-pulsed electron microscopy
P4-3	Sakura Utsunomiya (Osaka University, Japan) Synthesis and physical properties of B-N fused nir-absorbing dyes with naphthobisthiadiazole unit toward organic semiconductor
P4-4	Jiho Ryu (Osaka University, Japan) Single-molecule classification based on intermolecular hydrogen bond by modified nano-gap and single-molecule time series analysis
P4-5	Takahito Ohshiro (Osaka University, Japan) Single-molecule electrical RNA detection towards COVID-19 detection
P4-6	Akira Kitajima (Osaka University, Japan) Summary about Nanotechnology Open Facilities, Osaka University

P4-7	Liliany Novyanty Pamasi (Nara Institute of Science and Technology, Japan) Modulated three-dimensional ferromagnetic anisotropy of pyramidal shape Fe nanofilms
P4-8	Ayu Enomoto (The University of Shiga Prefecture, Japan) Additive effects of Cu and K to perovskite solar cells
P4-9	Riku Okumura (The University of Shiga Prefecture, Japan) Effects of alkali metal and organic cation addition to Cu-based perovskite solar cells
P4-10	Iori Ono (The University of Shiga Prefecture, Japan) Perovskite solar cell with guanidinium added to the photoactive layer
P4-11	Atsushi Suzuki (The University of Shiga Prefecture, Japan) Material design based on first-principles calculation and characterization of lanthanide compound incorporated perovskite solar cells