

APSRC2020 プログラム

新型コロナウイルス感染拡大防止のため、APSRC2020 は現地開催を中止し、誌上開催としました。プログラムは以下の通りです。

Session 1

- O-1 “Spin conversion reaction of spin-correlated *ortho*-positronium and radical in liquids”,
Tetsuya Hirade
- O-2 “A promising green dyeing method by radiation induced graft polymerization”,
Xiaojun Ding, Ming Yu, Ziqiang Wang, and Jingye Li
- O-3 “An overview of radiation chemical research in India”,
A. C. Bhasikuttan
- O-4 “Radiation-induced degradation of polysaccharides: quantification of the protective effect of aromatic additives on pullulan”,
Dhriti Khandal and Xavier Coqueret
- O-5 “Radiolysis of diamide-phenanthroline ligands”,
Hanqin Weng, Geng Chen, Shinichi Yamashita, Yusa Muroya, and Mingzhang Lin
- O-6 “Carboxymethylchitosan hydrogel manufactured by radiation-induced crosslinking as nerve regeneration guide scaffold”,
Radoslaw A. Wach, Agnieszka Adamus-Wlodarczyk, Alicja K. Olejnik, and Piotr Ulanski
- O-7 “Radiation functionalized polymer material for flexible sensing and environmental preservation”,
Guozhong Wu, Jiangtao Hu, Minglei Wang, and Maojiang Zhang
- O-8 “Ultrafast dynamics of hydrogen bond”,
Dipak Kumar Palit
- O-9 “Degradation of antibiotics and abatement of antimicrobial activity from water matrices by gamma irradiation”,
Libing Chu, Dan Chen, Mingcong Ding, and Jianlong Wang
- O-10 “The role of antioxidant rutin on radiation-induced DNA damage: From the viewpoint of radical scavenger and chemical repair”,
Hao Yu, Yusuke Kondoh, Kentaro Fujii, Akinari Yokoya, and Shinichi Yamashita
- O-11 “X-ray induced luminescence spectroscopy for tracing primary radiation interaction of DNA using a synchrotron radiation”,
Y. Terao, I. Suzuki, T. Tsuchiya, T. Kojima, Y. Kumagai, M. Ukai, A. Yokoya, K. Fujii, Y. Fukuda, and Y. Saitoh
- O-12 “Ionizing radiation as a powerful source for the synthesis of nanomaterials with unique features”,
Apurav Guleria and Soumyakanti Adhikari
- O-13 “Radiation synthesis and photocatalytic hydrogen evolution of cadmium sulfide-based nanocomposites”,
Maolin Zhai, Na Zhao, and Jing Peng
- O-14 “Radiation grafting of vinylimidazolium-based ionic liquid onto silica as efficient adsorbent for removal of ReO_4^- as analogue for TcO_4^- ”,
Kangjun Xie, Zhen Dong, and Long Zhao
- O-15 “RCS improves ocular surface repair after alkali burn in mice”,
Xu Ling, Feng Yun, Li Hongwei, Wu Wenyu, and Xu Lin
- O-16 “Radiation-induced grafting polymerization of 3D hierarchical porous amidoxime fibers for uranium extraction from seawater”,
Lu Xu and Hongjuan Ma
- O-17 “Radiation-induced late actinide redox chemistry”,
Gregory P. Horne, David S. Meeker, Travis S. Grimes, Peter R. Zalupski, James F. Wishart, Stephen P. Mezyk, and Thomas E. Albrecht-Schmitt
- O-18 “Oxidative uranium dissolution from UO_2 in the presence of adsorbed phthalic acid”,
Yuta Kumagai and Mats Jonsson
- O-19 “Radiation chemical studies in condensed phase: Exploring the free radical chemistry for applications”,
A. C. Bhasikuttan
- O-20 “Radiolytic yields of the solvated electron and hydroxyl radicals in H_2O and D_2O at low LET, a pi-

cosecond pulse-probe study”,
Mehran Mostafavi

- O-21 “Radiolysis of water at interfaces”,
Jay A. LaVerne
- O-22 “Electron beam degradation of microcystin LR”,
Mark S. Driscoll, David J. Kieber, Cornelius B. Murphy, David Kiemle, and Fred Bateman
- O-23 “Re-investigation of radiation induced reaction in halomethanes”,
Masao Gohdo, Takafumi Kondoh, Kazuki Araki, Koichi Kan, Jinfeng Yang, and Yoichi Yoshida

Session 2

- P-1 “Development of supercontinuum light source for pulse radiolysis using erbium fiber laser”,
Miu Sato, Tomoya Uchida, Yuya Koshiba, Kazuyuki Sakaue, and Masakazu Washio
- P-2 “The comparison of radiation effects in fluoropolymer films”,
S. Kobayashi, A. Nakamura, A. Oshima, and M. Washio
- P-3 “Fast quenching in self-activated scintillators observed by transient absorption spectroscopy”,
Masanori Koshimizu, Yusa Muroya, Shinichi Yamashita, Hiroki Yamamoto, Takayuki Yanagida, Yutaka Fujimoto, and Keisuke Asai
- P-4 “Positron annihilation lifetime analysis of neutron-irradiated glycidylamine epoxy resin”,
Xiang Xue and Hewen Liu
- P-5 “ESR spectral change of radicals produced in deuterated alanines. –A new pathway to produce the de-hydrogen radical–”,
Seiko Nakagawa
- P-6 “Isomerization reaction of photochromic compounds induced by C ion beam irradiation”,
Hiroki Kawamoto, Masanori Koshimizu, Yusuke Koba, Yutaka Fujimoto, and Keisuke Asai
- P-7 “Relationship between structure around Ag⁺ and valence change of Ag⁺ in Ag-doped phosphate glasses”,
Hiroki Kawamoto, Masanori Koshimizu, Hirokazu Masai, Yutaka Fujimoto, and Keisuke Asai
- P-8 “Radiation crosslinked gelatin nanogel for MRI contrast agent”,

Atsushi Kimura, Ichio Aoki, Miho Ueno, and Mitsumasa Taguchi

- P-9 “Radiation characteristics and applications of SMRs in emergency dose assessment”,
Sun Tao, Tang Kaiyong, and Li Jun
- P-10 “Preliminary investigation of nanoclay gel-based fluorescent gel dosimeters under carbon ion beam”,
T. Maeyama, A. Mochizuki, N. Fukunishi, and K. L. Ishikawa
- P-11 “Fabrication and evaluation of IPMC actuators based on radiation-grafted polymerization of acrylic acid”,
Ayana Terui, Ryoya Shimura, Akihiro Oshima, and Masakazu Washio
- P-12 “Facile preparation of different polyHIPE microspheres via double emulsion polymerization to construct superhydrophobic surface on stainless steel meshes for oil-water separation”,
Xiaoling Cui and Huarong Liu
- P-13 “Picosecond extreme ultraviolet-induced effects in poly(methyl methacrylate)”,
Yuji Hosaka, Tomoko G. Oyama, Hiroki Yamamoto, Masahiko Ishino, Thanh-Hung Dinh, Masaharu Nishikino, and Yasunari Maekawa
- P-14 “Preparation of radiation and heat resistant elastomer for static sealing material used on nuclear field”,
Chie Matsuda, Naotsugu Nagasawa, Masayuki Ito, Masaki Sugimoto, Yukiko Takeuchi, Mitsumasa Taguchi, Masakazu Washio, and Syunsuke Nakamura
- P-15 “Time-resolved emission and resonant Raman spectroscopy systems at the LINAC facility of the University of Tokyo”,
Shinichi Yamashita, Hanqin Weng, and Yusa Muroya
- P-16 “Microstructure of polymer surface irradiated with atomic oxygen”,
Aki Goto, Shinichi Yamashita, Akane Kitamura, and Masahito Tagawa
- P-17 “Strand break yields of X-ray irradiated plasmid DNA (pUC18): As a basis for radiation protection toward direct actions”,
Yusuke Kondoh, Hao Yu, Kentaro Fujii, Akinari

- Yokoya, and Shinichi Yamashita
- P-18 “Potential mechanisms for protective effect of D-methionine on plasmid DNA damage induced by therapeutic carbon ions”,
Katsunori Yogo, Chieko Murayama, Takuya Maeyama, Ryoichi Hirayama, Yukihiro Ogawa, Ken-ichiro Matsumoto, Ikuo Nakanishi, and Hiroshi Yasuda
- P-19 “Radiation-crosslinked collagen hydrogels for controlling cell function and fate”,
Tomoko G. Oyama, Kotaro Oyama, Atsushi Kimura, and Mitsumasa Taguchi
- P-20 “Spatiotemporal dynamics of DNA damage and repair regions from focused proton tracks in human cells after SPICE microbeam irradiation”,
Daisuke Ohsawa, Alisa Kobayashi, and Teruaki Konishi
- P-21 “Fabrication and evaluation of temperature-responsive cell culture membrane by electron beam graft polymerization”,
Ayano Mino, Hiroto Horiuchi, Ryoya Shimura, Akihiro Oshima, and Masakazu Washio
- P-22 “Radiation synthesis of tannic acid functionalized cellulose microsphere and its application for Ga(III) and In(III) recovery”,
Manman Zhang, Zhen Dong, and Long Zhao
- P-23 “Radiation synthesis and performance of MXene composite double-network hydrogel electrolyte for flexible zinc-ion battery”,
Tingrui Lin, Jing Peng, and Maolin Zhai
- P-24 “Selective separation of Pd(II) on pyridine-functionalized graphene oxide prepared by radiation-induced simultaneous grafting polymerization and reduction”,
Geng Chen, Hanqin Weng, Yi Wang, Zhihao Wu, and Mingzhang Lin
- P-25 “Gamma radiolysis study on solid nitrate calcines of reprocessing liquid waste for flexible nuclear waste management”,
Yusa Muroya, Akihiro Suzuki, and Yoichi Endo
- P-26 “Analysis of terahertz electric field of coherent transition radiation”,
Koichi Kan, Masao Gohdo, Jinfeng Yang, and Yoichi Yoshida
- P-27 “Effect of natural radiation levels on breast, thyroid, leukemia and lung cancers in a five-year study”,
Farshid Aliazar

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