

List of Poster Presentations

Poster session 1. 17:00-19:00 Tuesday, September 5, 2023

Chairs: Hidetsugu Tsuchida (Kyoto Univ.) & Shin-ichiro Sato (QST)

- PA01 Spin-orbit coupling in keV energy ion - surface collisions
Taku Suzuki, Osamu Sakai
- PA02 Color Centers in BaFBr Crystals: Experimental Study and Theoretical Simulation
Talgat Inerbaev, Daurzhan Kenbayev, Alma Dauletbekova, Elema Polisadova, Anatolii Popov, Sergei Piskunov, Abdirash Akilbekov, Igor Ivanov
- PA03 Fundamental characterization of swift heavy ion tracks in tourmaline single-crystals
Jessica Wierbik, Shankar Dutt, Hendrik Heimes, Alexander Kiy, Christian Notthoff, Nigel Kirby, Patrick Kluth
- PA04 Energy deposition by keV ions in different orientations of single crystalline self-supporting SiC foils
Eleni Ntemou, Radek Holeňák, Daniel Primetzhofer
- PA05 Bond breakages of biomolecules by ion-induced ionization and electronic excitation
Tomoya Tezuka, Takuya Majima, Manabu Saito, Hidetsugu Tsuchida
- PA06 Intermittent ion beam irradiation to investigate time evolution of defect interaction process
Atsushi Kinomura, Ryoichi Suzuki
- PA07 Anomalous increase of the contact angle of water droplets on the surface of PADC detector exposed to protons
Tamon Kusumoto, Koji Kuraoka, Yutaka Mori, Masato Kanasaki, Kenji Oda, Satoshi Kodaira, Remi Barillon, Tomoya Yamauchi
- PA08 **(Transferred to Oral Presentation at TU-p2)** Structural Manipulation of Ceramic Materials via Extreme Conditions
Maik Lang, Eric O'Quinn, Cameron Tracy, Alexandre Solomon, Casey Corbridge, Cale Overstreet, Christina Trautmann, Antonio Fuentes
- PA09 Carbon Sputtering by C₆₀- and C₇₀-ion Bombardment
Kazumasa Narumi, Keisuke Yamada, Yoshimi Hirano, Atsuya Chiba, Yuichi Saitoh
- PA10 Electron excitation by irradiation of swift ion beams on the superconducting material
Toshiaki Kaneko
- PA11 Microstructural evolution of periclase under irradiation by molecular dynamics simulations
Alain Chartier, Paul Fossati, Laurent Van Brutzel, Orest Dorosh, Jacek Jagielski
- PA12 Development of a simulation model aiming to study plasma formation and thermalization of secondary electrons in heavy ion irradiation
Kengo Moribayashi
- PA13 Two-Dimensional Images for Ion-Irradiation Induced Change in Lattice Structures and Magnetic States in Oxides by Monte Carlo Simulation

- Akihiro Iwase, Shigeru Nishio
- PA14 Molecular Dynamics Simulation of high-energy beam irradiation of SiO₂ crystal with free surface
Yasushi Sasajima, Satoshi Kimata, Norito Ishikawa
- PA15 Point defect properties in high entropy MAX phases from first-principles calculations
Hao Xiao, Shuang Zhao, Yugang Wang, Chengxu Wang
- PA16 Detailed Structure and Formation Mechanism of Ion Tracks in Polymers Based on All-atom Molecular Dynamics Simulations
W. Shen, X. Wang, P. Kluth, Yugang Wang, F. Liu
- PA17 Swift-heavy-ion induced damage in polyethylene: an atomic-scale study
Roman Voronkov, Pavel Babaev, Fedor Akhmetov, Sergey Gorbunov, Nikita Medvedev, Ruslan Rymzhanov, Alexander Volkov
- PA18 Simulation of swift heavy ion impact on SiC at different irradiation temperatures
Danil Zaynutdinov, Roman Voronkov, Sergey Gorbunov, Nikita Medvedev, Ruslan Rymzhanov, Michael Sorokin, Alexander Volkov
- PA19 Synthesis of non-circle nanopores by track etching in olivine
Sergey Gorbunov, Mikhail Gorshenkov, Pavel Babaev, Galina Kalinina, Ruslan Rymzhanov, Roman Voronkov, Alexander Volkov
- PA20 **(Transferred to Oral Presentation at TU-p2)** Defect Structure Investigation of Aluminate Spinels Induced by Swift Heavy Ion Irradiations
Satoru Yoshioka, Kazuhiro Yasuda, Syo Matsumura, Norito Ishikawa, Eiichi Kobayashi, Koji Okudaira
- PA21 Characterization of mineral insulated cables at the WWR-K reactor: first results
Asset Shaimerdenov, Shamil Gizatulin, Darkhan Sairanbayev, Zhanar Bugybay, Pavel Silnyagin, Assyl Akhanov, Takumi Fuyushima, Noriaki Hirota, Kunihiro Tsuchiya
- PA22 Role of annealing temperature on SPR peak of silver embedded fullerene C₆₀ matrix
Amena Salim, Rahul Singhal
- PA23 Investigation of the effect of variation in MgO dopant concentration on the resistance to radiation damage in ZrO₂ ceramics
Alisher Kurakhmedov, Artem Kozlovsky
- PA24 Interrelation between changes in structural parameters and radiation damage in nitride ceramics
Artem Kozlovskiy
- PA25 X-ray Absorption Near Edge Structure Investigation on Cationic Disorder in Pyrochlores Induced by Swift Heavy Ions
Hiroaki Kobayashi, Satoru Yoshioka, Kazuhiro Yasuda, Takeharu Sugiyama, Norito Ishikawa
- PA26 Synchrotron X-ray Study for Defect Structures Induced by Swift Heavy Ion Irradiations at Kyushu Univ. Beamline in SAGA-LS
Takeharu Sugiyama, Satoru Yoshioka, Kazuhiro Yasuda
- PA27 Non-Radiative Decay Kinetics of Self-Trapped Excitons in Strontium Titanate under Energetic Heavy-Ion Irradiation and their Relationship to Self-Trapped

- Hole Hopping
Miguel Crespillo, J. Graham, F. Agulló-López, Y. Zhang, W. Weber
- PA28 Effect of depth-absorbed dose distribution on the mechanical properties of carbon fibre-reinforced plastics in space radiation environments
Hiroki Fujii, Minoru Iwata
- PA29 Study of changes in thermophysical and optical properties in ZrO₂ ceramics doped with magnesium oxide upon irradiation with heavy ions
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- PA30 Electronic states of Fluorinated DNA component molecules revealed by X-ray Photoemission Spectroscopy
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- PA31 In-situ optical monitoring of radiative color centers (IL and OD) in MgF₂ crystals generated under energetic heavy ion irradiation
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- PA32 Structural response of SiO₂ polymorphs to swift heavy ion irradiation
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- PA33 Ion-induced surface effects on soda-lime silica glass after 1.0 MeV Si and 1.5 MeV Cu ion implantations
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- PA34 Investigation on the evolution behavior of helium-induced defects in titanium alloys
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- PA35 Amorphization mechanisms in boron carbide under ion irradiation: a comparative study using in situ measurements
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- PA36 Ion Irradiation Induced Enhanced non-linear optical properties of Au nanoparticles in Fullerene
Rahul Singhal
- PA37 Tuning in plasmonic properties of magnetron sputtered Ag-ZnO nanocomposite thin films using high energy ion beam
Ritu Vishnoi, K. Venkataratnam Kamma
- PA38 Effects of Radiation Damage on GaN Epitaxial Layer Arising From Ar Ion Implantation for Edge Termination
Meng-Yu Chen, Der-Sheng Chao, Jenq-Horng Liang
- PA39 Structural changes of radiation-induced bixbyite phase in δ -Sc₄Hf₃O₁₂ by electron-beam irradiation and heat treatment
Masanari Iwasaki, Manabu Ishimaru, Maulik Patel, Baldinozzi Gianguido, Sickafus Kurt
- PA40 Analysis of Ion-Track Overlapping Effect on Lattice Structure and Magnetic State in Heavy Ion Irradiated Cerium Dioxide by Using Poisson Distribution Function

- Akihiro Iwase, Fuminobu Hori, Norito Ishikawa
- PA41 Grain boundary effects on the irradiation-induced amorphization of SiC
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- PA42 Radiation-induced Modification of Mechanical Properties of Silicon Carbides
by Hydrogen and Helium Ion Irradiations
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- PA43 Dependence of Radiation-induced Conductivity and Electrical Degradation of
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Tsuchiya
- PA44 Fine structure of discontinuous ion-tracks in YBa₂Cu₃O₇ films and its role in
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- PA45 Mechanical property and microstructure of sapphire under irradiation of intense
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- PA46 Effect of Electron Beam Irradiation on Thermal Decomposition Behavior of
Polytetrafluoroethylene (PTFE)
Hao Yu, Akira Idesaki, Akihiro Hiroki, Shin Hasegawa, Kouichi Hirota,
Yasunari Maekawa
- PA47 Surface modification of carbon support for platinum nanoparticle catalyst by
Ar ion irradiation
Shunya Yamamoto, Tomitsugu Taguchi, Hiroshi Koshikawa, Tetsuya Yamaki
- PA48 Distinct phase transformation behaviors in Al-based 211 MAX phases under in-
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- PA49 Direct fabrication of sub-10 nm nanopores in metal oxide nanosheets using
swift heavy ions
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- PA50 Effect of Irradiation on Interfacial Strength of SiC, Alumina, and Mullite
Interfaces
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- PA51 Investigation of the tetragonal phase fraction evolution in monoclinic zirconia
due to intermediate SHI fluences
Michael Lee, Jacques O'Connell, Vladimir Skuratov
- PA52 Probing the swift heavy irradiation-induced structural modifications in
Nd₂Zr₂O₇ pyrochlore by EXAFS
Yogendar Singh, Vivek Kumar, Saurabh Sharma, Parasmani Rajput, Pawan
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- PA53 The impact of irradiation-induced defects on the creep behavior of (Pu_x,U_{1-x})O₂
crystal: A molecular dynamics study
Fengnian Zhuang, Wenshan Yu, Shuling Hu, Shengping Shen

- PA54 **(Withdrawn)** Atomistic simulations of radiation damage in β -Ga₂O₃
Ru He, H. He, J. Zhao, F. Djurabekova
- PA55 Effect of Ion Irradiation After Platinum Deposition onto Carbon Substrates on Oxygen Reduction Reaction Activity of Electrocatalysts
Tomitsugu Taguchi, Shunya Yamamoto, Hiroyuki Okazaki, Hiroshi Koshikawa, Akira Idesaki, Tetsuya Yamaki
- PA56 Paramagnetic Characteristics of MgAl₂O₄ Crystals Irradiated with 220 MeV Xe Ions
Abdirash Akilbekov, Arsenii Kiryakov, Damir Bajtimirov, Alma Dauletbekova, Guldar Baubekova, Meruert Mamatova, Zhuldyz Ospanova
- PA57 Track Template Synthesis and Experimental-Theoretical Investigation of a New Type of Heterostructures
Alma Dauletbekova, Diana Junisbekova, Sergei Piskunov, Zein Baimukhanov, Anatolii Popov, Alexandr Platonenko, Malik Kaliekperov
- PA58 Detailed molecular conformational changes and electronic structure of DNA irradiated with low-energy radiation based on first-principles calculations
Takuya Sekikawa, Y. Matsuya, T. Kai, H. Kawai, H. Beomju, M. Ishizaka, Y. Ōno, T. Sato
- PA59 Radiation-induced defects in Gd₂O₃ doped CeO₂ irradiated with 200-MeV Xe ions
Ryoma Shimizu, Pooreun Seo, Satoru Yoshioka, Norito Ishikawa, Jean-Marc Costantini, Kazuhiro Yasuda
- PA60 Preparation of Ion-Track Membranes of Polystyrene: First Successful Preparation of Through-pores
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- PA61 Ion Tracks After Grazing Incidence Swift Heavy Ion Irradiation: Looking into Details of AFM Images
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- PA62 Study of Different Degradation Effect in UV-sensitive Polymers between using Xenon Lamp and Deuterium Lamp to Simulate UV Irradiation in Space Environment
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- PA63 Evidence of improved tolerance to electronic excitation in bulk Ce_{0.8}Zr_{0.2}O₂
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- PA64 Modification of the polymer PETG by 16 MeV Au ions
M. S. da Rocha, C. A. Valente, S. D. de Oliveira, and R. M. Papaleo
- PA65 Unveiling the effects of ion irradiation into Eu-monazite for damage sensor applications
Sonia Marín-Cortés, Esther Enríquez, Miguel Crespillo, José Olivares, José F. Fernández
- PA66 Micromechanical Properties of ZnWO₄ Crystals Irradiated with 28 MeV Oxygen Ions
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- PA67 Retardation of cellular repair of hydrated plasmid DNA damage caused by X-

- ray exposure
Keishiro Hirasaki, Yui Obata, Nobuyoshi Akimitsu, Shinichi Yamashita, Akinari Yokoya
- PA68 **(Withdrawn)** Effect of Cascade Density on keV Ion-Irradiation-Induced Defect Formation in α -Ga₂O₃
Platon Karaseov, Anton Klevtsov, Konstantin Karabeshkin, Andrei Struchkov, Elizaveta Fedorenko, V.D. Andreeva, Alexander Shakhmin, Andrei Titov
- PA69 Evaluation of the Recovery Behaviour on Optical Properties of Polyamide and Polycarbonate Depending on Environmental Factor after Electron Beam Irradiation
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- PA70 Deformation-Stimulated Exciton-Like Luminescence in a KBr Matrix
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- PA71 Torsional Angle-Dependent Ion Desorption from Biphenyl Monolayers Induced by Resonant Core-Excitations
Kakuto Yoshioka, Akinobu Niozu, Shogo Tendo, Jun-ichi Adachi, Hirokazu Tanaka, Shin-ichi Wada
- PA72 High fluence effect on the surface morphology of ceramics irradiated by SHI
Nariaki Okubo, Masakatsu Tomobe, Norito Ishikawa
- PA73 Erosion Study of Tungsten Carbide thin films under 100 keV Kr¹⁺ ion
Shristi Bist, Ratnesh Pandey, Sejal Shah, Parswajit Kalita, Devesh Avasthi
- PA74 **(Withdrawn)** The Analysis of in Aging Phenomena of Gas Detector from Direct Current Plasma Polymerization
Chun Huang, Qingsong Yu, Jiun-Rung Chiou
- PA75 The effect of implantation sequence on nanocomposite formation by Ag and Ni ions implantation into SiO₂
Tomoko Yamada, Toshiyuki Matsui, Akihiro Iwase, Noboru Taguchi, Shingo Tanaka, Satoshi Semboshi, Fuminobu Hori
- PA76 Formation of metal nanocomposites in amorphous SiO₂ by multiple irradiation of Ag and Co ions
Shunnosuke Matsuo, Toshiyuki Matsui, Akihiro Iwase, Tomoko Yamada, Satoshi Semboshi, Noboru Taguchi, Shingo Tanaka, Fuminobu Hori
- PA77 Study of the efficiency of shielding gamma radiation by thin films based on CuBi₂O₄ spinel structures
Malik Kaliyekperov, Serik Sembayev, Artem Kozlovskiy
- PA78 Study of the kinetics of radiation damage in WO₃ microparticles of dispersed nuclear fuel
Kamila Kaliyekperova, Malik Kaliyekperov, Artem Kozlovskiy
- PA79 Comparison of alpha and X-ray irradiation effects in polymer gels used for dosimetry applications
Mantvydas Merkis, Diana Adliene, Donatas Vajauskas, Jurgita Laurikaitienė, Benas Urbonavičius, Gediminas Stankūnas, Benjaminas Togobickij, Brigita Abakevičienė
- PA80 Thermal stability of luminescence centers formed by irradiation of ionizing radiation into Ag-doped phosphate glasses

- PA81 Hiroki Kawamoto, Masanori Koshimizu, Yutaka Fujimoto, Keisuke Asai
A novel approach for β -Ga₂O₃ nanomembrane fabrication using ion implantation
Duarte Esteves, Miguel Pedro, Daniela Pereira, Sergio Magalhães, Luis Alves, Luis Santos, Katharina Lorenz, Marco Peres
- PA82 Elaboration and modification of materials at nanoscale controlled by singly and multiply charged focused ion beams
Stéphane Guillous, Adam Ockovic, Thibault Genieys, Isabelle Monnet, Mamour Sall, Yann Doublet, Marie-Pierre Chauvat, Amine Cassimi, Clara Grygiel, Henning Lebius
- PA83 **(Withdrawn)** Gold Nanoparticle Formation on a Polymer Substrate by keV Ion Irradiation
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- PA84 Creation of TiO₂ nanofilms by ion implantation and study of their electronic structure
Dilnoza Tashmukhamedova, Akbar Abduvayitov, Maxsuna Yusupjanova, Boltahadja Umirzakov
- PA85 X-ray photoemission and absorption spectroscopy of a hypervalent iodine compound, 2-iodosobenzoic acid, for developments of X-ray activated caged compounds
Yudai Izumi, Maki Ohara, Kentaro Fujii, Akinari Yokoya, Mikako Ogawa
- PA86 Behavior of an InGaP Solar Cell Type Dosimeter Device under High Temperature Condition
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Poster session 2. 17:00-19:00 Thursday, September 7, 2023

Chairs: Masanori Koshimizu (Shizuoka Univ.)
& Satoru Yoshioka (Kyushu Univ.)

- PB01 Performance of PLD-grown alumina coatings dedicated for advanced nuclear applications
Agata Zaborowska, Łukasz Kurpaska, Maciej Zieliński, Edyta Wyszowska, Fabio di Fonzo, Qinqin Xu, Magdalena Gawęda, Malgorzata Frelek-Kozak, Jacek Jagielski
- PB02 In-situ Observation of Radiation-Induced Defects in ZrN under Electron Irradiation
Mohammad Majidur Rahman, Norihiro Sakaguchi, Tomokazu Yamamoto, Syo Matsumura, Seiya Takaki, Masahide Takano, Jean-Marc Costantini, Kazuhiro Yasuda
- PB03 In-situ Measurements of Electrical Conductivity of Proton Conductive Oxide Ceramics Exposed in Water-vapor Atmosphere Under Reactor Irradiation
Keisuke Kataoka, Ryosuke Terasawa, Tomoko Sasaki, Bun Tsuchiya
- PB04 Impact of high-temperature long-term neutron irradiation on the physical and mechanical properties the SiC-matrix of the fuel element of the HTGR reactor
Shamil Gizatulin, Asset Shaimerdenov, Assyl Akhanov, Alexey Dikov, Sergey Kislitsin, Darkhan Sairanbayev, Pavel Silnyagin, Shohei Ueta, Naoki Mizuta
- PB05 Phase transformation and radiation resistance of high entropy pyrochlores
Yuxin Li, Yiming Lei, Shuang Zhao, Hao Xiao, Yugang Wang, Rodney C. Ewing, Chenxu Wang
- PB06 Influence of Helium on Strontium Migration in SiC
Thapelo Mokgadi, Vladimir Skuratov, Thulani Hlatshwayo
- PB07 Radiation effects in UN and ZrN
Connor Beer, Mounib Bahri, Lottie Harding, Ross Springell, Keith Arnold, Karl Whittle, Nigel Browning, Maulik Patel
- PB08 Helium irradiation induced microstructural damages and mechanical response of multi-phase ceramics
Yabin Zhu, Jianlong Chai, Yiwen Liu, Tielong Shen, Zhiguang Wang
- PB09 **(Transferred to Oral presentation at TH-p2)** Linear Energy Transfer Dependence of the Scintillation Properties of CeF₃
Masanori Koshimizu, Satoshi Kurashima, Atsushi Kimura, Mitsumasa Taguci
- PB10 Embedded Plasmonic Nanoparticle Arrays in Glass via Silver Ion Implantation
Lingrui R. Chu, F. Chen
- PB11 Strong Faraday Rotation Based on Plasmonic Enhancement of Embedded Nanoparticles Fabricated via Ion Implantation
Han Zhu, Mingsheng Gao, Lingrui Chu, Wei Qin, Feng Chen
- PB12 Detection characteristics for neutron, gamma rays and, ion-beam in an InGaP Solar Cell under High Temperature Condition
Yasuki Okuno, Mitsuru Imaizumi, Takahiro Makino, Takeshi Oshima, Yuki Jimba, Tamotsu Okamoto, Tomohiro Kobayashi
- PB13 Excitonic Performances in Swift Heavy Ion Irradiated TMDCs

- Shengxia Zhang, Jie Liu, Lijun Xu, Peipei Hu, Jian Zeng, Pengfei Zhai, Li Liu, Zongzhen Li
- PB14 Scintillation properties of In-doped NaI transparent ceramics
Yuta Yoshikawa, Takumi Kato, Keiichiro Miyazaki, Daisuke Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB15 Photoluminescence, scintillation, and TSL properties of Dy-doped BaCaBO₃F
Naoki Kawano, Hiromi Kimura, Go Okada, Daisuke Nakauchi, Takayuki Yanagida
- PB16 The Reliabilities of HfO₂-Based Ferroelectric Films under Swift Heavy Ion Irradiation
Zongzhen Li, Yang Jiao, Jianjun Li, Chang Cai, Yuzhu Liu, Shiwei Zhao, Xue Fan, Jie Liu
- PB17 Dosimetric characteristics of Eu-doped Ca₂BO₃Cl
Tomoaki Wauke, Naoki Kawano, Takumi Kato, Yuma Takebuchi, Hiroyuki Fukushima, Go Okada, Takayuki Yanagida
- PB18 Radiation-induced luminescence properties of Tb-doped CaGdAlO₄ single crystals
Zuiko Aoki, Yuma Takebuchi, Daisuke Nakauchi, Takumi Kato, Noriaki Kawaguchi, Takayuki Yanagida
- PB19 RPL Properties of Sm-doped K(Cl,Br) Single Crystals
Minto Taneoka, Go Okada, Hidehito Nanto
- PB20 Near-Infrared Photoluminescence of Neodymium Implanted Gallium Nitride Coupled to Photonic Crystal L3 Cavity
Shin-ichiro Sato, Takao Oto
- PB21 Optical and Radiation Response Properties of Nd-doped BaTi₄O₉ Single Crystals Emitting Near-infrared Photons
Hiromi Kimura, Takeshi Fujiwara, Masahito Tanaka, Takumi Kato, Daisuke Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB22 Development of organic RPL dosimeters based on radiation-induced emission-switching mechanism of p-benzoquinone and fluorescein
Ritsuha Tanaka, Masanori Koshimizu, Yutaka Fujimoto, Keisuke Asai
- PB23 Luminescent Properties of ZrO₂:Ce Ceramics Synthesized by Electron-Beam Method and Irradiated with Swift Heavy Ions
Alma Dauletbekova, Yana Kasatkina, Sergei Nikiforov, Victor Lisitsyn, Michail Golkovsky, Abdirash Akilbekov, Zhakyp Karipbayev, Maxim Zdorovets, Gulzhanat Akhmetova-Abdik
- PB24 Radiation Damage in β -Ga₂O₃ and SBD by Swift Heavy Ions
Wensi Ai, Jie Liu, L.J. Xu, S.X. Zhang, J. Zeng, P.F. Zhai, P.P. Hu, Z.Z. Li, L. Liu
- PB25 Scintillation properties of (ClPEA)₂PbCl₄ crystals forming quantum well structures
Shun Matsuzawa, Kai Okazaki, Daisuke Nakauchi, Naoki Kawano, Takeru Suto, Takumi Kato, Noriaki Kawaguchi, Takayuki Yanagida
- PB26 Radiation-induced luminescence properties of undoped and Ce-doped LiAl₅O₈ single crystals
Takumi Kato, Yuma Takebuchi, Masanori Koshimizu, Kai Okazaki, Daisuke

- Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB27 Optical Activation of Praseodymium Ions Implanted in GaN after Ultra-High Pressure Annealing
Shin Ito, Shinichiro Sato, Michal Boćkowski, Manato Deki, Hirotaka Watanabe, Shugo Nitta, Yoshio Honda, Hiroshi Amano, Kenichi Yoshida, Hideki Minagawa, Naoto Hagura
- PB28 X-ray-induced luminescence properties of Na₃AlF₆ doped with TmF₃
Hirotaka Sakaguchi, Hiroyuki Fukushima, Takumi Kato, Daisuke Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB29 Scintillation output of Tb-doped Lu₂O₃ crystal crystals
Daisuke Nakauchi, Kenichi Watanabe, Takumi Kato, Noriaki Kawaguchi, Takayuki Yanagida
- PB30 Optical Properties of Ion Track-Based Nanostructures with Gradient and Programmable Diameters
Ran Huang, Jie Liu, Haizhou Xue, Jinglai Duan
- PB31 Mechanical Metamaterials Made of Freestanding Quasi-BCC Nanolattices of Gold and Copper with Ultra-High Energy Absorption Capacity
Hongwei Cheng, Xiaoxia Zhu, Xiaowei Cheng, Pengzhan Cai, Jie Liu, Huijun Yao, Ling Zhang, Jinglai Duan
- PB32 Ion Track-Based High-Porosity 3D Metallic Electrodes for Long-Life Lithium Anodes
Xiaoxia Zhu, Hongwei Cheng, Shuangbao Lyu, Jianan Gu, Yong Peng, Jie Liu, Shubin Yang, Jinglai Duan
- PB33 Double-sided plasmonic metasurface for simultaneous biomolecular separation and SERS detection
Shuangbao Lyu, Yongliang Zhang, Guanghua Du, Cuixia Di, Yulong Fan, Jie Liu, Jinglai Duan, Dangyuan Lei
- PB34 Effect of post-annealing in oxygen atmosphere on GdBa₂Cu₃O_y superconducting films irradiated with 10 MeV Au-ions
Toshinori Ozaki, Hiroyuki Okazaki, Hiroshi Koshikawa, Shunya Yamamoto, Tetsuya Yamaki, Tetsuro Sueyoshi, Hitoshi Sakane
- PB35 Ionizing Radiation Induced Eu³⁺ → Eu²⁺ Valence Change in Eu:KSrPO₄ Ceramics Synthesized by Solid State Reaction Method
Daiki Shiratori, Y. Fukuchi, T. Yanagida
- PB36 Radiation response properties of Sn-doped 50AEO-50SiO₂ (AE = Mg, Ca, Sr, Ba) glasses
Yuma Takebuchi, Daiki Shiratori, Akihiro Nishikawa, Takumi Kato, Daisuke Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB37 X-ray-induced scintillation properties of Nd-doped calcium niobium gallium garnet single crystals
Kai Okazaki, Daisuke Nakauchi, Takumi Kato, Noriaki Kawaguchi, Takayuki Yanagida
- PB38 Radioluminescence Properties of Sm³⁺-doped Y₃Al₅O₁₂ Single Crystals
Toshiaki Kunikata, Kenichi Watanabe, Prom Kantuptim, Takumi Kato, Daisuke Nakauchi, Noriaki Kawaguchi, Takayuki Yanagida
- PB39 X-ray-Induced Scintillation Properties of Cr-Doped Mg₄Ta₂O₉ Single Crystals

- in Near-Infrared Regions
Taisei Hayashi, Kensei Ichiba, Daisuke Nakauchi, Takumi Kato, Noriaki Kawaguchi, Takayuki Yanagida
- PB40 X-ray Raman Spectroscopy Study of Ion Beam Irradiated Glassy Carbon for In Situ Observation of Light Element Based Catalysts
Daiju Matsumura, Hiroyuki Okazaki, Akira Idesaki, Kenji Ishii, Tetsuya Yamaki
- PB41 Room Temperature Ferromagnetism in non-magnetic semiconductors
Homnath Luitel
- PB42 Depth profile and critical thickness on the degradation of mechanical and optical properties due to near UV irradiation simulating space environment
Miguel Trigueros Hevia, Minoru Iwata
- PB43 Ion Tracks and Nanohillocks Created in Zirconia-Based Oxides Irradiated with Swift Heavy Ions
Norito Ishikawa, Shoma Fukuda, Toru Nakajima, Hiroaki Ogawa, Yuki Fujimura, Tomitsugu Taguchi
- PB44 Concentric Structure of Ion Tracks in very thin SiO₂ Irradiated with Swift Heavy Ions
Norito Ishikawa, Tomitsugu Taguchi, M.E. Toimil-Molares, Christina Trautmann, Hiroaki Ogawa
- PB45 Sputtering of Phenylalanine Films Bombarded with Sub-MeV C₆₀ Ions
Ken Kinomura, Taiga Taneichi, Shinji Takeuchi, Kaoru Nakajima
- PB46 Permanent defects in graphene field effect transistors induced by swift heavy ions
Jian Zeng, Shengxia Zhang, Lijun Xu, Peipei Hu, Khan Maaz, Youmei Sun, Jie Liu
- PB47 Evidence of defect-annealing effect in swift heavy ion irradiated InP,
Peipei Hu, Lijun Xu, Pengfei Zhai, Jian Zeng, Shengxia Zhang, Zongzhen Li, Khan Maaz, Jie Liu
- PB48 Tuning Critical Current Density Properties of High-Tc Superconductors under Longitudinal Magnetic Field by Heavy-ion Irradiation
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- PB50 Investigation of the detailed structure of swift heavy ion tracks in polymer foils
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