

## Poster Session B

### Poster Session B – Wednesday, Sept. 2

- P-B01 **Comparison of microstructural changes in ZnAl<sub>2</sub>O<sub>4</sub> spinel under ion irradiation in the electronic and in the nuclear energy loss regime**  
Quentin, Monnet, Gosset, Simeone, Trautmann, Hervé, Bouffard
- P-B02 **Hard resistance of AlN under swift heavy ion irradiation by comparison with others III-V nitrides.**  
Guillouet, Sonnerfeld, Girard, Sall, Chauvat, Monnet, Ruterana
- P-B03 **Ion Beam Synthesis of Glasses and Their Modifications**  
Deshkovskaya
- P-B04 **Forming of Protective Nanostructure Coatings on Metals and Glasses and Their Properties Investigation**  
Deshkovskaya, Lynkou, Nagibarov, Richter, Pham
- P-B05 **Fluoride glasses implanted with ions of transition elements**  
Bogomolova, Caccavale, Krasil'nicova
- P-B06 **The investigation of silica glass implanted with Er**  
Bogomolova, Deshkovskaya
- P-B07 **Ionizing Effect in Proton Conductivity at Interface between Electrode and Electrolyte of Gamma-ray irradiated Polymers**  
Tsuchiya
- P-B08 **Radiation Induced Phenomena on Electrical Property of Proton Conducting Oxides under Reactor Irradiation**  
Tsuchiya
- P-B09 **Diffusion of silver and iodine implants in silicon carbide**  
Friedland, van der Berg, Malherbe, Wendler, Wesch
- P-B10 **Disordering Behavior of Ion Irradiated Nanocrystalline SiC**  
Jiang  
WITHDRAWN
- P-B11 **Influence of ion energy on damage induced by gold implantation in silicon carbide single crystals**  
Gentils, Barthe, Thomé, Canizarès, Simon, Behar
- P-B12 **Ion track effect on SiC point defect production**  
Litrico, Zimbone, Baratta, Musumeci, Calcagno
- P-B13 **Enhanced defect recombination in ion irradiated SiC**  
Izzo, Litrico, Grassia, Calcagno, Foti
- P-B14 **Ion-beam irradiation effects on reactively sputtered Cr-N thin films**  
Novaković, Popović, Bibić
- P-B15 **Structural characterization of TiN/Si bilayers irradiated with Ar ions**  
Popović, Novaković, Bibić
- P-B16 **Role of Grain Boundaries on Defect Creation and Defect Processes**  
Gao
- P-B17 **Rare Earth implantation of AlN for light emission from IR to UV**  
Lorenz, Magalhães, Alves, Peres, Monteiro, Gloux, Ruterana, Bockowski
- P-B18 **Modification of electronic properties of three layered SiN<sub>x</sub> films due to excimer laser irradiation**  
Efremov, Arzhannikova, Volodin, Kamaev, Marin, Kochubei, Popov

- P-B19 **Temperature dependence of damage formation in Ag ion irradiated 6H-SiC**  
Wendler, Bierschenk, Wesch, Friedland, Malherbe
- P-B20 **Impact of ion implantation on the defect production and stability of N<sub>2</sub>O-nitrided oxides**  
Naumova, Fomin, Popov  
WITHDRAWN
- P-B21 **Swift Heavy Ion Irradiation of Pressurized Boron Nitride**  
Klein, Miletich, Schuster, Trautmann, Neumann
- P-B22 **Effect of Low-Energy Ion Irradiation on the Growth and Properties of Cubic Boron Nitride Films**  
Teij, Yamao, Matsumoto
- P-B23 **Modification of polyether sulphone induced by 80 MeV O<sub>6+</sub> ions**  
Singh, Qureshi, Singh, Avasthi
- P-B24 **Effect of SHI on dielectric and magnetic properties of metal oxide/PMMA nanocomposites**  
Singh, Gavade, Avasthi, Benarjee
- P-B25 **Radiation induced modification of dielectric and structural properties of the metal/ polymer composites**  
Singh, Singh, Qureshi, Avasthi, Gulluoglu, Kulriya, Tripathi
- P-B26 **Novel nanocomposite materials produced by laser irradiation of polymers “doped” with metal thiolate precursors**  
Resta, Laera, Piscopiello, Tapfer
- P-B27 **Investigation of ion track core chemistry by in-situ QMA: SHI irradiation in Ni-PTFE system**  
Prakash, Tripathi, Khan, Pivin, Singh, Tripathi, Mishra, Avasthi
- P-B28 **Monte Carlo study of molecular weight distribution changes induced by degradation of ion beam irradiated polymers.**  
Chappa, Pastorino, del Grosso, Arbeitman, Müller, Garcia Bermudez
- P-B29 **New membranes obtained by grafting implanted PVDF foils.**  
Mazzei, Garcia Bermudez, Arbeitman, Chappa, del Grosso, Behar
- P-B30 **Pulsed laser treatments of polyethylene films**  
Torrisi, Borrielli, Visco, Campo
- P-B31 **Thermomechanical relaxation of surface tracks induced by MeV ions in polycarbonate thin films**  
Leal, Souza, Fakhraai, Forrest, Papaléo
- P-B32 **Transport, Chemical and Mechanical Properties of Ion Irradiated Polymer films**  
Kulshrestha, Agarwal, Awasthi, Awasthi, Jain, Vijay
- P-B33 **Radiation hardness of polysiloxane scintillators analyzed by Ion Beam Induced Luminescence**  
Quaranta, Carturan, Marchi, Antonaci, Buffa, Scian, Kravchuk, Degerlier, Gramegna, Maggioni
- P-B34 **Release of Light Elements from Polyimide, Polyethylene Telephthalate and Polyethylene Naphthalate Foils during MeV Proton Beam Irradiation: Effect of Al Deposition on Foils**  
Saito, Kobayashi, Nishiyama, Nagata, Takahiro
- P-B35 **Well-Ordered Arrangement of Ag Nanoparticles in SiO<sub>2</sub>/Si by Ion Implantation**  
Minakuchi, Saito, Isshiki, Nishio, Nishiyama, Yamamoto, Sasase, Takahiro
- P-B36 **The influence of elongation of heavy ions irradiated polyethylenetereftalate films on polymer structure and track membrane pore formation**  
Kochnev, Vlasov, Vilensky, Zagorsky, Shamyrganov, Mchedlishvili
- P-B37 **Stopping powers of mylar for <sup>16</sup>O, <sup>19</sup>F, <sup>28</sup>Si from 1.6 to 5.5 MeV/u**  
Mamoun, Choudhury, Biswas, Ammi, Tobbeche
- P-B38 **Modification of PTFE surface by argon plasma treatment**  
Singh, Pelagade, Singh, Shah, Rane, Mukherjee, Deshpande, Ganesan, Shripathi
- P-B39 **Radiation induced luminescence of PET and PEN films under MeV ion and UV laser irradiation**

- Nagata, Takahiro, Tsuchiya, Katsui, Shikama
- P-B40 **Structural modifications induced by swift heavy ions in yttria fully stabilised zirconia thin films**  
Caricato, Lamperti, Ossi, Radnoczi, Trautmann
- P-B41 **Synthesis and characterization of SnO<sub>2</sub> nanoparticles embedded in silica by ion implantation**  
Tagliente, Mattei, Mazzoldi, Pellegrini, Bello, Massaro
- P-B42 **A Deceleration System Providing Very Slow Highly Charged Ions for Surface Nanostructuring Purposes**  
Ginzel, Higgins, Mrowcynski, Simon, Crespo López-Urrutia, Ullrich, Kowarik, Meissl, Vasko, Gösselsberger, El-Said, Aumayr
- P-B43 **Formation nanocrystals and nanofilms on a surface oxide films, at bombardment by active metals ions with annealing**  
Umirzakov, Tashmukhamedova, Tashatov, Qurbanov
- P-B44 **Surface plasmon resonances of metallic nanowire arrays**  
Duan, Cornelius, Liu, Karim, Yao, Picht, Rauber, Müller, Neumann
- P-B45 **Electron-beam induced modification of photo-thermo-refractive glasses with Ag ions**  
Podsvirov, Sidorov, Vostokov, Ignatiev, Nikonorov, Tsekhomsky, Nashchekin, Usov
- P-B46 **Laser beam irradiation of silver-doped silicate glasses**  
Gonella, Cattaruzza, Trave, Canton, Quaranta
- P-B47 **Silicon nanopowder produced using electron 1.6MeV-accelerator for nanoelectronic memory devices**  
Efremov, Antonenko, Arzhannikova, Vishnyakov, Volodin, Gismatulin, Kamaev, Marin, Voschenkov
- P-B48 **Multilayer Si/SiO<sub>2</sub> nanostructures produced using plasmochemical reactor of induction type**  
Arzhannikova, Efremov, Antonenko, Vishnyakov, Volodin, Kamaev, Marin, Kochubei, Voschenkov
- P-B49 **Er site in Er- and Er+Au-implanted silica**  
Maurizio, Perotto, Trave, Pellegrini, Mattei, Battaglin, Mazzoldi
- P-B50 **Enhanced low energy ion sputtering of alumina layers nanostructured by Ti ion implantation**  
Duvanov, Balogh
- P-B51 **Thermally tuning the aspect ratio of silver nanospheroids embedded in silica and produced by ion implantation**  
Rodríguez-Iglesias, Peña, Silva-Pereyra, Rodríguez-Fernández, Cheang-Wong, Crespo-Sosa, Oliver
- P-B52 **Ion Tracks Route to Nanotechnology and Carbon Ion Irradiation Effects on Cadmium Oxide Quantum dots**  
Virk
- P-B53 **Silicon nanowire growth in-situ of irradiated SiO<sub>2</sub> films for all-Silicon solar cell applications**  
Nychyporuk, Canut, Fave, Lemiti
- P-B54 **Amorphous Phase Formation in Cobalt Nanoparticles**  
Sprouster, Guilan, Araujo, Kluth, Llewellyn, Johannessen, Nordlund, Ridgway
- P-B55 **Au-Fe nanoparticles in silica matrix: a novel nano-composite obtained by ion implantation**  
de Julián Fernández, Mattei, Paz Pérez de Colosia, Novak, Caneschi, Palomares, Mazzoldi, Gatteschi
- P-B56 **Fe-implanted SiC as a potential DMS: X-ray diffraction and Rutherford backscattering and channelling study**  
Dupeyrat, Declémy, Debelle, Thomé
- P-A17 **Electrical property modifications of In-doped ZnO films by ion irradiation**  
Matsunami, Sataka, Okayasu, Sugai