

## POSTER SESSION B - WEDNESDAY, 19 JUNE, 2024

Code	Presenting author	Title, authors
PB01	Kuanyshbek Shunkeyev	The nature of high-temperature peaks of thermally stimulated luminescence in NaCl, NaC:Li, KCl and KCl:Na crystals <b>Kuanyshbek Shunkeyev</b> , Shynar Sagimbayeva, Lyudmila Myasnikova, Adelya Kenzhebayeva
PB02	Aliya Omarova	Studying the prospects for using photosensitive ACdSe (A – Co, Ni) thin films <b>Aliya Omarova</b> , Artem L. Kozlovskiy
PB03	Kymbat Tynyshbayeva	Application of optical analysis methods to assess destructive changes in the surface layer of SiC ceramics exposed to high-dose irradiation <b>Kymbat Tynyshbayeva</b> , Artem L. Kozlovskiy
PB04	Zhussupbek Salikhodzha	First principles calculations of the structure, electronic structure, elastic properties, and processes of formation of some defects in the Na <sub>2</sub> SO <sub>4</sub> -V crystal <b>Zhussupbek SALIKHODZHA</b> , Fatima ABUOVA, Turlybek NURAKHMETOV, Aset KAINARBAY, Abzal AKHMEDOV, Aislu KASSEKEYEVA
PB05	Zhussupbek Salikhodzha	DFT STUDY OF STRUCTURAL, ELECTRONIC AND ELASTIC PROPERTIES OF c-ZrO <sub>2</sub> <b>Zhussupbek SALIKHODZHA</b> , Guldari BAIRBAYEVA, Raigul SULEIMEN
PB06	Aisulu Abuova	Investigating novel double half-Heusler Alloys: a study of electronic, magnetic, elastic properties and their Implications Nurgul SOLTANBEK, Nurpeiis MERALI, Fatima Abuova, <b>Aisulu Abuova</b>
PB07	Leonid Rusevich	First principles calculations of the advanced phosphor materials <b>Leonid RUSEVICH</b> , Ilya CHERVYAKOV, Eugene KOTOMIN, Igor MIKHAILOV, Dmitry BOCHAROV, Mikhail BRIK
PB08	Jurij Grechenkov	DFT study of ternary zinc based pnictogenides (ZnAX <sub>2</sub> ) with chalcopyritic structure <b>Jurij Grechenkov</b> , Dmitry Bocharov, Sergei Piskunov
PB09	Viktorija Veretennikova	Predictions of LiInSe <sub>2</sub> scintillating properties from DFT calculations <b>Viktorija Veretennikova</b> , Jurij Grechenkov, Dmitry Bocharov, Sergei Piskunov

PB10	Zhakyp Karipbayev	Thermal stability of color centers in lithium fluoride crystals irradiated with electrons and N, O, Kr, U ions Zhadra MALIKOVA, <b>Zhakyp KARIPBAYEV</b> , Abdirash AKILBEKOV, Alma DAULETBKOVA, Guldar BAUBEKOVA, Anatoli POPOV
PB11	Inesh E. Kenzhina	Use of optical and luminescent methods for detecting radiation damage in ZrO <sub>2</sub> – Al <sub>2</sub> O <sub>3</sub> ceramics <b>Inesh E. Kenzhina</b> , Aktolkyn Tolenova, Artem L. Kozlovskiy
PB12	Edgars ELSTS	Thermoluminescence study of neutron-irradiated MgAl <sub>2</sub> O <sub>4</sub> crystals doped with rare-earth ions <b>Edgars ELSTS</b> , Marina KONUHOVA, Nina MIRONOVA-ULMANE, and Anatoli I. POPOV
PB13	Dmitry Bocharov	XANES analysis sheds new light on the structural properties of up- converting TiO <sub>2</sub> nanoparticles doped with rare earth elements Alise PODELINSKA, Elina NEILANDE, Victoria PANKRATOVA, Jurij GRECHENKOV, Vladimir PANKRATOV, Aliaksandr BURKO, Diana LAPUTSKO, Valeria MURASHKO, Anatoli I POPOV, Hanna BANDARENKA, <b>Dmitry BOCHAROV</b>
PB14	Halyna Klym	Exploring Luminescence Spectra of Eu-Doped BaGa <sub>2</sub> O <sub>4</sub> Ceramics through Synchrotron Studies <b>Halyna KLYM</b> , Yuriy KOSTIV, Vladimir PANKRATOV, Ivan KARBOVNYK
PB15	Rafał Porzeziński	Quasi-equilibrium conditions in the model of semi-localized transitions (SLT) <b>Rafał PORZEZIŃSKI</b> , Arkadiusz MANDOWSKI
PB16	Vasyl Stasiv	Studies of optically stimulated luminescence of the YAlO <sub>3</sub> :Mn <sup>2+</sup> crystals grown by the floating zone and Czochralski methods <b>Vasyl STASIV</b> , Oleksandr POSHYVAK, Jan FINK-FINOWICKI, Yaroslav ZHYDACHEVSKYY, Sergii UBIZSKII, Marek BERKOWSKI, Andrzej SUCHOCKI
PB17	Pavels Rodionovs	Optical properties of multi-site CaAl <sub>12</sub> O <sub>19</sub> phosphors doped with Cr <sup>3+</sup> , Fe <sup>3+</sup> , or Mn <sup>2+</sup> <b>Pavels RODIONOVS</b> , Meldra KEMERE, Andris ANTUZEVIC, Andris FEDOTOVS, Uldis ROGULIS, Anatolijs SARAKOVSKIS
PB18	Dace Nilova	Characterization and enhancement of UV-C persistent luminescence in Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> :Pr <sup>3+</sup> <b>Dace NILOVA</b> , Guna DOKE, Guna KRIEKE, Pavels RODIONOV, Andris ANTUZEVIC

PB19	Aleksandra Jung	Thermoluminescence and optically stimulated luminescence properties of some gemstones Barbara WOJTAS, Julia ŁEPKOWSKA, Magdalena DUMAŃSKA-SŁOWIK, <b>Aleksandra JUNG</b>
PB20	Viktorija Pankratova	Temperature Behavior of Luminescence in LYSO:Ce Single Crystals under Synchrotron Radiation Excitation in VUV Range <b>Viktorija PANKRATOVA</b> , Kirill CHERNENKO, Vladimir PANKRATOV
PB21	Viktorija Pankratova	Study of Swift Heavy Ion Induced Radiation Defects in Relevant Garnet Crystals by VUV Excitation of Synchrotron Radiation <b>Viktorija PANKRATOVA</b> , Kirill CHERNENKO, Aleksei KOTLOV, Zhakyp T. KARIPBAEV, Gulnara M. ARALBAYEVA, Igor A. IVANOV, and Vladimir PANKRATOV
PB22	Zhakyp Karipbayev	Temperature dependence and dynamics of luminescence of gallium oxide single crystals Aizat BAKYTKYZY, <b>Zhakyp KARIPBAYEV</b> , Alma DAULETBEKOVA, Yana SUCHIKOVA, Abay USSEINOV, Meldra KEMERE, Anatoli I. POPOV
PB23	Zhakyp Karipbayev	Optimizing Ga <sub>2</sub> O <sub>3</sub> :Ce for Advanced Optoelectronic Applications: Synthesis and Properties Askhat KAKIMOV, <b>Zhakyp KARIPBAYEV</b> , Kuat KUMARBEBKOV, Zhunusbekov AMANGELDY, Aizat BAKYTKYZY, Yana SUCHIKOVA, Anatoli POPOV
PB24	Yana Suchikova	Effects of High-Energy Ion Irradiation on Luminescent Properties of Gallium Oxide Crystals Aizat BAKYTKYZY, Zhakyp KARIPBAYEV, Alma DAULETBEKOVA, <b>Yana SUCHIKOVA</b> , Igor IVANOV, Vladimir PANKRATOV, Anatoli I. POPOV
PB25	Yana Suchikova	Enhanced Luminescence in YAG Ceramics Doped with Eu, Cr, and Er Zhassulan ZhILGILDINOV, <b>Yana SUCHIKOVA</b> , Zhakyp KARIPBAYEV, Kuat KUMARBEBKOV, ZHUNUSBEBKOV Amangeldy
PB26	Zhakyp Karipbayev	Luminescence of Unintentional Impurities in Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> Crystals Kuat KUMARBEBKOV, <b>Zhakyp KARIPBAYEV</b> , Gulnar ARALBAYEVA, Amangeldy ZHUNUSBEBKOV, Anatolii I. POPOV, Dmitro SUGAK, Sergei B. UBIZSKII
PB27	Didzis Salnajs	Phosphate matrix-based phosphors for luminescence in UV spectral range <b>Didzis SALNAJS</b> , Dace NILOVA, Pavels RODIONOVŠ, Andris ANTUZEVIČS

PB28	Viktorija Pankratova	Swift Heavy Ions Induced Defects Influence on Optical and Luminescent Properties of $Gd_3Ga_2Al_3O_{12}$ Single Crystals <b>Viktorija PANKRATOVA</b> , Kirill CHERNENKO, Aleksei KOTLOV, Zhakyp T. KARIPBAEV, Gulnara M. ARALBAYEVA, Igor A. IVANOV, and Vladimir PANKRATOV
PB29	Anatoly Trukhin	The study of $Ag^+(Cu^+)$ center creation in $\alpha$ -quartz crystals by thermal annealing at 1200°C in $O_2$ atmosphere from metallic Ag and Au <b>Anatoly Trukhin</b> , Madara Leimane
PB30	Fatima Abuova	Characteristics of rhombohedral $BaTiO_3$ /Graphene (111) surface Balzan Satanova, <b>Fatima Abuova</b> , Gulbanu Kaptagay, Aisulu Abuova
PB31	Daniela Constantin	Luminescence and ESR characterisation of quartz extracted from granite source rocks and the derived sediments used for provenance studies <b>Daniela Constantin</b> , Zuzanna Kabacińska, Aditi Dave, Mihai Ducea and Alida Timar-Gabor
PB32	Bauyrzhan K. Abyshev	Study of the influence of varying compositions for producing lithium- containing ceramics on changes in structural and optical properties determined using optical spectroscopy and luminescence methods <b>Bauyrzhan K. Abyshev</b> , Artem L. Kozlovskiy
PB33	Ilze MANIKA	Hardening effect and structural changes in $ZnWO_4$ crystals irradiated with swift $^{12}C$ , $^{16}O$ , $^{36}Kr$ and $^{54}Xe$ ions <b>Ilze MANIKA</b> , Anatoli I. POPOV, Zhakyp T. KARIPBAYEV, Marina Konuhova
PB34	Vladimir PANKRATOV	Time-Resolved Luminescence of Embedded Mixed-Halide Perovskite Nanocrystals Anastasiia BABKINA, Artur BOGACHOV, Yevheniia SMORTSOVA, <b>Vladimir PANKRATOV</b>
PB35	Zhakyp Karipbayev	Optical absorption, photoluminescence and Raman scattering of $LiNbO_3$ single crystals irradiated by $^{84}Kr^+$ ions D. Sugak, Ya. Zhydachevskyy, P. Ciepielewski, U.Yakhnevych, O. Buryy, A. Dauletbekova, <b>Zh. Karipbayev</b> , A. Kozlovskii, M. Konuhova, A. Suchocki, A.I. Popov
PB36	Edgars ELSTS	Thermostimulated luminescence properties of neutron and thermochemically-reduced $Y_3Al_5O_{12}$ <b>E. Elsts</b> V. Grāveris M. Konuhova, E. Shablonin, E. Vasil'chenko

PB37	Anatoli I. POPOV	Are color centers possible in ceria? <b>A.I. Popov</b> , E.A. Kotomin, D. Gryaznov and J. Maier
PB38	Anatoli I. POPOV	Analysis of the self-trapped hole center mobility and recombination in alkali halides and complex metal halides <b>Anatoli I. Popov</b> and Marina Konuhova
PB39	Ewa Mandowska	Thermoluminescence Spectra Properties of feldspars <b>Ewa MANDOWSKA</b> , Robert SMYKA, Arkadiusz MANDOWSKI