

Poster session - virtual

June 22, 2022

- Pb1v Stopping power in lanthanides, from Ce to Lu  
*Jesica Paola Peralta, Alejandra M. P. Mendez, Claudia C. Montanari*
- Pb2v Dependence of the electronic stopping on the method of measurement  
*Pavel Babenko, Aleksandr Zinoviev*
- Pb3v Fast electron contribution to electronic stopping  
*Pavel Babenko, Aleksandr Zinoviev*
- Pb4v Reflected particles energy spectra during bombarding a tungsten surface with hydrogen atoms  
*Vladislav Mikhailov, Pavel Babenko, Daria Tensin, Aleksandr Zinoviev*
- Pb5v Hydrogen atoms reflection coefficient from the beryllium surface saturated with hydrogen  
*Vladislav Mikhailov, Pavel Babenko, Daria Tensin, Aleksandr Zinoviev*
- Pb6v Channeling of hydrogen isotopes in gold and tungsten  
*Daria Tensin, Pavel Babenko, Andrey Shergin, Aleksandr Zinoviev*
- Pb7v Nuclear stopping powers for DFT potentials  
*Aleksandr Zinoviev, Pavel Babenko, Kai Nordlund*
- Pb8v The potential determination for the H-Au system from experimental data  
*Pavel Babenko, Aleksandr Zinoviev, Vladislav Mikhailov, Daria Tensin, Andrey Shergin*
- Pb9v The Levine-Mermin dielectric function to describe stopping of inner-shells.  
*Jesica Paola Peralta, Marcelo Fiori, Claudia C. Montanari, Alejandra M. P. Mendez*
- Pb10v Molecular Dynamics Simulations of Silicon Vacancy and Nitrogen Vacancy Color Centers in Diamond  
*WEI ZHAO, ZONGWEI XU, FEI REN, JINTONG WU, TIANZE SUN*
- Pb11v Photoionization of a Quantum Grating formed by a Single Atom  
*Shaofeng ZHANG*
- Pb12v Soft potential and van der Waals effects in He-KCl(001) grazing-incidence fast atom diffraction.  
*Gisela Anahí Bocan, Hanadi Breiss, Samir Szilasi, Anouchah Momeni, Elena Magdalena Staicu Casagrande, Esteban Alejandro Sánchez, María Silvia Gravielle, Hocine Khemliche*

- Pb13v Effective collision frequency of electrons in dense partially ionized plasma  
*Erik Shalenov, Madina Seisembayeva, Karlygash Dzhumagulova*
- Pb14v Channeling electronic stopping power of Li ions in silicon crystal: Monte Carlo study  
*Omar EL BOUNAGUI, Najim Tahiri, Hassane Erramli*
- Pc1v A graphical user interface for SDTrimSP  
*Paul S. Szabo, David Weichselbaum, Herbert Biber, Christian Cupak, Andreas Mutzke, Richard A. Wilhelm, Friedrich Aumayr*
- Pc2v On the problem of Be and W impurities in ITER plasma  
*Aleksandr Zinoviev, Pavel Babenko, Maxim Mironov, Andrey Shergin*
- Pc3v Modeling the interaction of hydrogen and helium isotopes with the first wall of a tokamak reactor  
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- Pc4v Molecular dynamics simulations of tungsten and beryllium sputtering near threshold  
*Daria Tensin, Aleksandr Zinoviev, Pavel Babenko, Andrey Shergin*
- Pc5v Nonlinear effect on Au sputtering by C60- and C70-ion bombardment  
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- Pc6v Focusing effect in the formation of azimuthal distributions of atoms ejected from (001) Ni face  
*Artem Igorevich Musin, Vladimir Nikolaevich Samoïlov*
- Pc7v Effect of molecular axis orientation of 3.6 MeV Si<sup>2+</sup> on secondary electron emission from carbon foils  
*Naruki Uno, Takuya Majima, Manabu Saito, Hidetsugu Tsuchida*
- Pd1v Effect of Deposition of Submonolayer Cs Coatings on the Density of Electronic States and Energy Band Parameters of CoSi<sub>2</sub>/Si(111)  
*Ilkhom Bekpulatov, Boltakhodja Umirzakov, Ilkhom Turapov, Bakhrom Igamov*
- Pd2v Effect of various actions on the surface of single-crystal Si  
*Ilkhom Bekpulatov, Boltakhodja Umirzakov, Zukhra Tursunmetova*
- Pd3v Obtaining a two-layer system silicide – silicon

*Ilkhom Bekpulatov, Murodulla Normurodov, Kuvondik Dovranov, Khujamkul Dovranov, Dilshod Normurodov*

Pd4v Type and size of the nanostructure formed on a metal surface by an impact of highly charged ions

*N.N. Nedeljković, M.D. Majkić, M.A. Mirković, I. Stabrawa, D. Banaś*

Pd5v EFFECT OF IMPLANTATION OF Ba<sup>+</sup> IONS ON THE COMPOSITION AND ELECTRONIC STRUCTURE OF THE W(111) AND WO<sub>2</sub> SURFACES

*Baltahkadja Ermatovich Umirzakov, Dilnoza Artikbaevna Tashmukhamedova, Yoqub Suvonovich Ergashov, Maxsuna Bahodirovna Yusupjanova, Saodat Tulyaganovna Gulyamova*

Pd6v Structure and stress in nc-ZrN/a-ZrCu multilayered films irradiated by He ions

*I.A. Ivanov, V.V. Uglov, S.V. Zlotski, G. Abadias, I.S. Veremei, A.E. Ryskulov, A.L. Kozlovskiy, A.E. Kurakhmedov, M.V. Koloberdin, D.A. Mustafin*

Pd7v Effect of Low Energy Ion Beam on Au-hBN

*Vidyotma Yadav, Manoj Kumar Kumawat, Tanuja Mohanty*

Pd8v EFFECT OF BA<sup>+</sup> ION IMPLANTATION ON THE COMPOSITION OF SILICATE GLASSES

*Dilnoza Artikbaevna Tashmukhamedova, Maxsuna Bahodirovna Yusupjanova, Shirin Abidovna Talipova, Xurshid Xamidovich Boltaev, Azimjon Narzullaevich Urokov*

Pd9v Structure and phase composition of concentrated TiVNbTa and TiVTa solid solutions irradiated by helium and krypton ions

*A.E. Ryskulov, V.V. Uglov, S.V. Zlotski, K. Jin, N.A. Stepanjuk, M.M. Belov, I.A. Ivanov, A.L. Kozlovskiy, M.V. Zdorovets, A.E. Kurakhmedov, A.D. Sapar, D.A. Mustafin, Y.V. Bikher*

Pd10v Structural and phase state of composite based on silicon carbide, irradiated by krypton ions

*Vladimir Uglov, Valentina Kholad, Pavel Grinchuk, Mikhail Kiyashko, Igor Ivanov, Artem Kozlovskiy, Maksim Zdorovets*

Pd11v Microstructural investigation of single-phase concentrated solid solution based on V-Nb-Ta-Ti under helium ion irradiation

- Azamat Ryskulov, Vladimir Uglov, Mikhail Belov, Sergey Zlotski, Ke Jin, Maksim Zdrorovets, Igor Ivanov, A. Kurakhmedov, Artem Kozlovskiy, D. Mustafin, Y. Bikhert, A. Sapar, Tatyana Kuznetsova, Vasilina Lapitskaya, Anastasiya Khabarava*
- Pd12v Radiation damage, conductivity type conversion and p-n nanojunction formation induced by low-energy Ar<sup>+</sup> ion collisions with the n-GaAs surface  
*Valery Mikoushkin*
- Pd13v Experimental and Theoretical Investigation of Defect Controlled Wetting Property of Carbon-based Nanomaterials  
*Pritam Das, Shyamal Chatterjee*
- Pd14v Room-temperature radiation-induced diffusion in the GaAs-oxide irradiated by low-energy Ar<sup>+</sup> ion beam  
*Valery Mikoushkin, Elena Makarevskaya, Anna Solonitsyna*
- Pd15v Ion implantation, nano-carbon, doping  
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- Pd16v A novel method for preparing highly sensitive graphene room temperature gas detectors  
*Jian Zeng, Pengcheng Ma, Shengxia Zhang, Lijun Xu, Peipei Hu, Jie Liu*
- Pd17v Surface Modifications by Fast Heavy Ions and Slow Highly Charged Ions: Similarities and Differences  
*Ayman Sherif El-Said*
- Pd18v Radiation tolerance of GaN and Ga<sub>2</sub>O<sub>3</sub>: role of the defect generation rate  
*Andrei Titov, Konstantin Karabeshkin, Andrei Struchkov, Alexander Azarov, Platon Karaseov*
- Pf1v Selective Bond Cleavage of ArCO by Electron Impact  
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- Pf2v Projectile dependence in dissociation on biomolecules by swift heavy ion irradiation  
*Tomoya Tezuka, Mizuki Hongo, Takuya Majima, Manabu Saito, Hidetsugu Tsuchida*
- Pg1v Surface treatment procedures to mitigate desorption processes induced by swift heavy ions

*Verena Velthaus, Trautmann Christina, Bender Markus*

- Pg2v Evolution of irradiation-induced defects in nitrogen implanted 4H-SiC  
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- Pg3v Probing the Helium Dimer by Relativistic Highly Charged Projectiles  
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- Pg4v Analysis of ion-track overlapping effects using Poisson distribution function and Monte Carlo simulation  
*Akihiro Iwase, Shigeru Nishio, Norito Ishikawa, Fuminobu Hori*
- Ph1v TREKIS-4: concurrent MC-MD modelling of ion track formation  
*Nikita Medvedev, Fedor Akhmetov, Ruslan A. Rymzhanov, Roman Voronkov, Alexander E. Volkov*
- Ph2v Atomistic model of wet chemical etching of SHI tracks in olivine  
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- Ph3v Observation of ion latent tracks in semicrystalline polymers by scanning electron microscopy  
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- Ph4v Swift heavy ion irradiation of bismuth nanowires pressurized in diamond anvil cells  
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- Ph6v Model of ion track formation in polyethylene  
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- Ph7v Effect of O+8 Swift Heavy Ion Irradiation on The Optical Properties of Graphene Oxide sheets  
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- Ph8v An atomistic simulation for the study of Nb-coated SRF cavities by HiPIMS method

*Milad Ghaemikermani, Alvaro Lopez Cazalilla, Flyura Djurabekova*

- Ph9v Phase Stability of Pre-irradiated CeO<sub>2</sub> with Swift Heavy Ions under High Pressure up to 45 GPa  
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- Ph10v Swift Heavy Ion Tracks in CeO<sub>2</sub>  
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- Ph11v Trion Emission in WSe<sub>2</sub> Tuned by Swift Heavy Ion Irradiation  
*Shengxia Zhang, Lijun Xu, Peipei Hu, Khan Maaz, Jian Zeng, Pengfei Zhai, Zongzhen Li, Li Liu, Jie Liu*
- Ph12v The Variation of Pinning Efficiency in Swift Heavy Ions Irradiated YBCO Superconducting Films  
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