

Armor materials' behavior under repetitive dense plasma shots

Shirokova, Veroonika; Laas, Tõnu; **Mikli, Valdek** Physica scripta 2014 / Art. 014045, 5 p. : ill <https://doi.org/10.1088/0031-8949/2014/T161/014045> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Colored-noise-induced Hopf bifurcations in predator-prey communities

Mankin, Romi; Laas, Tõnu; Sauga, Ako; Ainsaar, Ain; **Reiter, Eerik** Physical review E 2006 / p. 021101-1 - 021101-9
<https://journals.aps.org/pre/pdf/10.1103/PhysRevE.74.021101>

Coloured-noise-induced transitions in nonlinear structures

Mankin, Romi; Laas, Tõnu; Soika, Erkki; **Sauga, Ako**; Rekker, Astrid; Ainsaar, Ain; Ugaste, Ülo Nukleonika 2008 / 3, p. 127-134 : ill
<https://bibliotekanauki.pl/articles/147752>

Comparison of damages in tungsten and tungsten doped with lanthanum-oxide exposed to dense deuterium plasma shots

Shirokova, Veroonika; Laas, Tõnu; **Mikli, Valdek** Journal of nuclear materials 2013 / p. 181-188 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0022311512006848> <https://doi.org/10.1016/j.jnucmat.2012.12.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of multifractal parameters of surface defects and non-defects

Martsepp, Merike; Laas, Tõnu; Tõkke, Siim; **Priimets, Jaanis; Mikli, Valdek** Proceedings of the Estonian Academy of Sciences 2023 / p. 115-127 : ill <https://doi.org/10.3176/proc.2023.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrigendum to "Generation and development of damages in double forged tungsten in different regimes of irradiation with extreme heat loads" [J. Nucl. Mater. 495 (2017) 91-102]

Paju, Jana; Väli, Berit; Laas, Tõnu; **Shirokova, Veroonika; Antonov, Maksim** Journal of nuclear materials 2018 / p. 323-324 : tab
<https://doi.org/10.1016/j.jnucmat.2018.03.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dependence of multifractal analysis parameters on the darkness of a processed image

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; **Priimets, Jaanis; Tõkke, Siim; Mikli, Valdek** Chaos, Solitons & Fractals 2022 / art. 111811 <https://doi.org/10.1016/j.chaos.2022.111811> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys

Tõkke, Siim; Laas, Tõnu; Priimets, Jaanis; **Tarraste, Marek; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of pulsed deuterium plasma irradiation on dual-phase tungsten medium-entropy alloys

Laas, Tõnu; Tõkke, Siim; Paju-Hamburg, Jana; **Tarraste, Marek; Mikli, Valdek; Antonov, Maksim; Priimets, Jaanis;** Czarkowski, Piotr; Miklaszewski, Ryszard; Paduch, Marian Fusion engineering and design 2025 / art. 115229
<https://doi.org/10.1016/j.fusengdes.2025.115229>

Environmental-fluctuations-induced slow-fast cycles in ratio-dependent predator-prey systems

Mankin, Romi; **Sauga, Ako**; Laas, Tõnu; Soika, Erkki WSEAS transactions on systems 2007 / 5, p. 934-941 : ill
https://www.researchgate.net/publication/289308978_Environmental-fluctuations-induced_slow-fast_cycles_in_ratio-dependent_predator-prey_systems

Erratum: Multifractal analysis of high-temperature plasma irradiated tungsten surfaces (Surface Topography: Metrology and Properties (2021) 9 (035030) DOI: 10.1088/2051-672x/ac1dc3)

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; **Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim** Surface topography : metrology and properties 2023 / art. 029501 <https://doi.org/10.1088/2051-672X/acc81c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The experimental and theoretical investigations of damage development and distribution in double-forged tungsten under plasma irradiation-initiated extreme heat loads

Väli, Berit; Laas, Tõnu; Paju, Jana; **Antonov, Maksim** Nukleonika 2016 / p. 169-177 : ill <https://doi.org/10.1515/nuka-2016-0029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Generation and development of damage in double forged tungsten in different combined regimes of irradiation with extreme heat loads

Paju, Jana; Väli, Berit; Laas, Tõnu; **Shirokova, Veroonika; Antonov, Maksim** Journal of nuclear materials 2017 / p. 91-102 : ill
<https://doi.org/10.1016/j.jnucmat.2017.07.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hydrogen interaction with point defects in the Si-SiO₂ structures and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Kämer, T.; Ugaste, Ülo; Laas, Tõnu; Heinmaa, I.; Abru, Uno; Medvid, A. Solid state phenomena 2008 / p. 345-350 <https://www.scientific.net/SSP.131-133.345>

Impact of pulsed deuterium plasma irradiation on dual-phase tungsten alloys

Tökke, Siim; Laas, Tõnu; **Primets, Jaanis; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2021 / art. 112215, 10 p. : ill <https://doi.org/10.1016/j.fusengdes.2020.112215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impurity interaction with point defects in the Si-SiO₂ structures and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Kärner, T.; Ugaste, Ülo; Laas, Tõnu; Heinmaa, I.; Medvid, A. Materials science and engineering : B 2006 / p. 222-226 : ill <https://www.sciencedirect.com/science/article/pii/S0921510706004375>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Kärner, Tiit; Heinmaa, Ivo; Laas, Tõnu; Londos, Charalampos; Misiuk, Andrzej Solid state phenomena 2011 / p. 263-266 <https://www.sciencedirect.com/science/article/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Kärner, Tiit; Dolgov, Sergei; Heinmaa, Ivo; Laas, Tõnu; Londos, Charalampos Physica status solidi (c) 2011 / p. 694-696 : ill <https://www.sciencedirect.com/science/article/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Kärner, Tiit; Dolgov, Sergei; Heinmaa, Ivo; Laas, Tõnu; Londos, C. A. The 9th International Conference on Global Research and Education : August 9-12, 2010, Riga : digest 2010 / p. 231-233 <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Lott, Kalju; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Solid state phenomena 2010 / p. 145-148 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Rebohle, L.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Thin solid films 2010 / 9, p. 2374-2376 <https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Multidimensional analysis of inertial fusion devices relevant materials irradiated with high energy plasma beams with plasma focus device

Laas, Tõnu; Laas, Katrin; Paju, Jana; **Shirokova, Veroonika; Priimets, Jaanis;** Väli, Berit Pathways to Energy from Inertial Fusion: Structural materials for Inertial Fusion Facilities : Final Report of a Coordinated Research Project 2020 / p. 46-74 : ill. "[Multidimensional analysis of inertial fusion devices relevant materials irradiated with high energy plasma beams with plasma focus device](#)"

Multifractal analysis of high-temperature plasma irradiated tungsten surfaces

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; **Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim** Surface topography : metrology and properties 2021 / 13 p. : ill <https://doi.org/10.1088/2051-672X/ac1dc3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multifractal defects versus non-defects in surface analysis

Martsepp, Merike; Laas, Tõnu; Tökke, Siim; **Mikli, Valdek** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 37 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

On the effects of different regimes of plasma pulses affecting the material due to their succession

Paju, Jana; Laas, Tõnu; **Priimets, Jaanis;** Väli, Berit; **Shirokova, Veroonika;** Laas, Katrin Nuclear materials and energy 2019 / p. 312-320 : ill <https://doi.org/10.1016/j.nme.2019.01.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Stochastic multiresonance and correlation-time-controlled stability for a harmonic oscillator with fluctuating frequency

Mankin, Romi; Laas, Katrin; Laas, Tõnu; **Reiter, Eerik** Physical review E 2008 / 3, p. 031120 [11 p.] <https://journals.aps.org/pre/abstract/10.1103/PhysRevE.78.031120>

Strain relaxation mechanism in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Volobujeva, Olga; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A. Physica B : condensed matter 2009 / 23/24, p. 5153-5155 : ill

Strain relaxation mechanism in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Volobujeva, Olga; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A. Radiation Interaction with Materials and its use in Technologies : Kaunas, 24-27.09.2008 2008 / p. 204-207 <https://www.sciencedirect.com/science/article/pii/S0921510706004375>

Stress relaxation mechanism by strain in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Kärner, Tiit; Laas, Tõnu; Medvid, Arthur; Onufrijevs, Pavels; Dauksta, Edvins Solid state

phenomena 2011 / p. 259-262 https://globaljournals.org/GJSFR_Volume17/1-Stresses-Relaxation-Mechanism.pdf

Surface structure transformation in double forged tungsten upon single and sequenced irradiation using different types of radiation facilities

Demina, E. V.; Gribkov, V. A.; Laas, Tõnu; **Shirokova, Veroonika** Inorganic materials : applied research 2018 / p. 832–847 : ill
<https://doi.org/10.1134/S2075113318050088>