

## Publikationen

- (2020): Effect of temperature on the growth and surface bursting of He nano-bubbles in W under fusion-relevant He ion irradiations. In: Fusion Engineering and Design, vol. 163, no. Available online 26 December 2020. DOI: 10.1016/j.fusengdes.2020.112159.
- (2020): The effect of fusion-relevant He ion flux on the evolution of He nano-bubbles in W. In: Plasma Physics and Controlled Fusion, vol. 62, no. 6. DOI: 10.1088/1361-6587/ab8242.
- (2020): Tensile stress-driven cracking of W fuzz over W crystal under fusion-relevant He ion irradiations. In: Nuclear Fusion, vol. 60, no. 4. DOI: 10.1088/1741-4326/ab71bb.
- (2020): Effect of intermittent He/D ion irradiations on W nano-fuzz growth over W targets. In: Vacuum, vol. 173, no. March. DOI: 10.1016/j.vacuum.2019.109146.
- (2019): The evolution of He nanobubbles in tungsten under fusion-relevant He ion irradiation conditions. In: Nuclear Fusion, vol. 59, no. 8. DOI: 10.1088/1741-4326/ab2472.
- (2019): Mass loss of pure W, W-Re alloys, and oxide dispersed W under ITER-relevant He ion irradiations. In: Journal of Nuclear Materials, vol. 527. DOI: 10.1016/j.jnucmat.2019.151800.
- (2019): The effect of O<sub>2</sub> impurity on surface morphology of polycrystalline W during low-energy and high-flux He<sup>+</sup> irradiation. In: Fusion Engineering and Design, vol. 139, pp. 96-103. DOI: 10.1016/j.fusengdes.2019.01.003.
- (2018): Surface diffusion and growth of W self-interstitials during low-energy and large-flux H/He ion irradiations of polycrystalline W. In: International Conference on Plasma Surface Interactions in Controlled Fusion Devices, Princeton University, NJ, USA.
- (2018): Surface damages of polycrystalline W and La<sub>2</sub>O<sub>3</sub>-doped W induced by high-flux He plasma irradiation. In: Journal of Nuclear Materials, vol. 501, no. April, pp. 275-281.
- (2017): Academic domains as political battlegrounds. A global enquiry by 99 academics in the fields of education and technology. In: Information Development, vol. 33, no. 3, pp. 270-288. DOI: 10.1177/0266666916646415.
- (2016): Surface degeneration of W crystal irradiated with low-energy hydrogen ions. In: Scientific Reports (Nature Publishing Group), vol. 6, no. Article number: 23738. DOI: 10.1038/srep23738.
- (2016): High-flux He<sup>+</sup> irradiation effects on surface damages of tungsten under ITER relevant conditions. In: Journal of Nuclear Materials, vol. 471, no. April, pp. 1-7. DOI: 10.1016/j.jnucmat.2016.01.001.
- (2016): Characterization of the photocurrents generated by the laser of atomic force microscopes. In: Review of Scientific Instruments, vol. 87, no. 8. DOI: 10.1063/1.4960597.
- (2015): Nanostructured fuzz growth on tungsten under low-energy and high-flux He irradiation. In: Scientific Reports (Nature Publishing Group), vol. 5, no. Article number: 10959, pp. 1-9. DOI: 10.1038/srep10959.
- (2015): Observation of interstitial loops in He<sup>+</sup> irradiated W by conductive atomic force microscopy. In: Acta Materialia, vol. 92, pp. 178-188.
- (2010): Plasma-assisted chemical vapor deposition of titanium oxide films by dielectric barrier discharge. Submitted Article. In: Thin Solid Films.
- (2006): Properties and deposition processes of a-C: H films from CH<sub>4</sub>/Ar dielectric barrier discharge plasmas. In: Surface & Coatings Technology, vol. 200, no. 20-21, pp. 5819-5822.

- (2005): A triangular section magnetic solenoid filter for removal of macro- and nano-particles from pulsed graphite cathodic vacuum arc plasmas. In: Surface & Coatings Technology, vol. 200, no. 7, pp. 2243-2248. DOI: 10.1016/j.surfcoat.2004.09.032.
- (2005): Growth processes and surface properties of diamondlike carbon films. In: Journal of Applied Physics, vol. 97. DOI: 10.1063/1.1890446.
- (2004): Filtered pulsed carbon cathodic arc: plasma and amorphous carbon properties. In: Journal of Applied Physics, vol. 95, pp. 7624-7631. DOI: 10.1063/1.1753081.
- (2003): Medium- to high-pressure plasma deposition of a-C:H films by dielectric barrier discharge. In: New Diamond and Frontier Carbon Technology, vol. 13, no. 4, pp. 191-206.
- (2003): SPM investigation of diamond-like carbon and carbon nitride films. In: Surface & Coatings Technology, vol. 172, no. 2-3, pp. 194-203. DOI: 10.1016/S0257-8972(03)00338-4.
- (2003): Surface roughness, scratch resistance and tribological properties of hydrogenated amorphous carbon coatings prepared by low-pressure dielectric barrier discharge. In: Surface & Coatings Technology, vol. 174-175, no. September /Oktober, pp. 310-315. DOI: 10.1016/S0257-8972(03)00649-2.
- (2003): Surface and structural properties of ultrathin diamond-like carbon coatings. In: Diamond and Related Materials, vol. 12, pp. 1594-1600. DOI: 10.1016/S0925-9635(03)00248-6.
- (2002): Surface Roughness and Mechanical Properties of a-C:H Films Prepared by Low-pressure Dielectric Barrier Discharge. In: International Conference on Plasma Surface Engineering (PSE2002), Garmisch-Partenkirchen.
- (2000): Test Report of Clock Distributor in Changchun and Beijing. In: Proceedings of the 12th International Workshop on Laser Ranging, Matera, Italien, 16.-20.10.2000.

