

List of author's publications related to the doctoral thesis (impacted journals)

- [I] O. Kovarik, A. Materna, J. Siegl, J. Cizek, J. Klecka, Fatigue Crack Growth in Plasma-Sprayed Refractory Materials, *Journal of Thermal Spray Technology* 28 (2019) 87–97. <https://doi.org/10.1007/S11666-018-0790-3>.
- [II] J. Klecka, J. Cizek, J. Matejcek, F. Lukac, R. Zlatnik, T. Chraska, Tailoring the structure of RF-ICP tungsten coatings, *Surf Coat Technol* 406 (2021) 126745. <https://doi.org/10.1016/J.SURFCOAT.2020.126745>.
- [III] O. Kovarik, J. Cizek, J. Klecka, M. Karlik, J. Cech, J. Kozlik, H. Lauschmann, Tungsten Heavy Alloys from Mixed Feedstock by RF Plasma, *Journal of Thermal Spray Technology* (2023) 1–16. <https://doi.org/10.1007/S11666-023-01647-6>.
- [IV] O. Kovarik, J. Cizek, J. Klecka, Fatigue Crack Growth Rate Description of RF-Plasma-Sprayed Refractory Metals and Alloys, *Materials* 16 (2023). <https://doi.org/10.3390/ma16041713>.
- [V] J. Klecka, J. Cizek, J. Matejcek, F. Lukac, J. Vala, Thick functionally-graded W-316L composite coatings for nuclear fusion applications, *Nuclear Materials and Energy* 34 (2023). <https://doi.org/10.1016/J.NME.2023.101373>.

List of other author's publications (impacted journals)

- [I] J. Klecka, F. Di Gabriele, A. Hojna, Mechanical properties of the steel T91 in contact with lead, *Nuclear Engineering and Design* 283 (2015) 131–138. <https://doi.org/10.1016/J.NUCENGDES.2014.10.004>.
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- [IV] F. Lukáč, M. Vilémová, B. Nevrlá, J. Klečka, T. Chráska, O. Molnárová, Properties of Mechanically Alloyed W-Ti Materials with Dual Phase Particle Dispersion, *Metals* 2017, Vol. 7, Page 3 7 (2016) 3. <https://doi.org/10.3390/MET7010003>.
- [V] F. Di Gabriele, A. Hojna, M. Chocholousek, J. Klecka, Behavior of the Steel T91 under Multi Axial Loading in Contact with Liquid and Solid Pb, *Metals* 2017, Vol. 7, Page 342 7 (2017) 342. <https://doi.org/10.3390/MET7090342>.
- [VI] M. Vilémová, K. Illková, F. Lukáč, J. Matějčíček, J. Klečka, J. Leitner, Microstructure and phase stability of W-Cr alloy prepared by spark plasma sintering, *Fusion Engineering and Design* 127 (2018) 173–178. <https://doi.org/10.1016/J.FUSENGDES.2018.01.012>.
- [VII] F. Lukac, M. Dudr, R. Musalek, J. Klecka, J. Cinert, J. Cizek, T. Chraska, J. Cizek, O. Melikhova, J. Kuriplach, J. Zyka, J. Malek, Spark plasma sintering of gas atomized high-entropy alloy HfNbTaTiZr, *J Mater Res* 33 (2018) 3247–3257. <https://doi.org/10.1557/JMR.2018.320>.
- [VIII] J. Cizek, J. Klecka, Harnessing Fusion Power: W and W-Cr Armor Coatings for Plasma Facing Components in Tokamaks, *AM&P Technical Articles* 177 (2019) 46–49. <https://doi.org/10.31399/ASM.AMP.2019-05.P046>.
- [IX] M. Vilémová, K. Illková, Š. Csáki, F. Lukáč, H. Hadraba, J. Matějčíček, Z. Chlup, J. Klečka, Thermal and Oxidation Behavior of CoCrFeMnNi Alloy with and Without Yttrium Oxide Particle Dispersion, *J Mater Eng Perform* 28 (2019) 5850–5859. <https://doi.org/10.1007/S11665-019-04311-9>.
- [X] J. Matějčíček, M. Vilémová, D. Moskal, R. Mušálek, J. Krofta, M. Janata, Z. Kutílek, J. Klečka, S. Heuer, J. Martan, E. Nardoza, Š. Houdková, D. Dorow-Gerspach, The Role of Laser Texturing in Improving the Adhesion of Plasma Sprayed Tungsten Coatings, *Journal of Thermal Spray Technology* 28 (2019) 1346–1362. <https://doi.org/10.1007/S11666-019-00924-7>.
- [XI] S. Samal, O. Tyc, J. Cizek, J. Klecka, F. Lukáč, O. Molnárová, E. de Prado, Z. Weiss, J. Kopeček, L. Heller, P. Šittner, T. Chráska, Fabrication of Thermal Plasma Sprayed NiTi Coatings Possessing Functional Properties, *Coatings* 2021, Vol. 11, Page 610 11 (2021) 610. <https://doi.org/10.3390/COATINGS11050610>.

- [XII] J. Cizek, J. Klecka, L. Babka, R. Musalek, H. Hadraba, J. Kondas, R. Singh, M. Pazderova, Protective Mo and Fe Coatings by CS and RF-ICP for PbLi Coolant Environments in Generation IV Fission Reactors, *Journal of Thermal Spray Technology* 32 (2023) 363–374. <https://doi.org/10.1007/S11666-022-01519-5>.
- [XIII] S. Kraft, O. Peters, J. Schille, R. Mušálek, J. Martan, Ž. Dlouhá, J. Klečka, J. Matějčík, Š. Houdková, D. Moskal, M. Vilémová, U. Löschner, High-Speed Laser Surface Structuring for Thermal Spray Coating Preparation, *Physica Status Solidi (a)* (2024) 2300710. <https://doi.org/10.1002/PSSA.202300710>.
- [XIV] J. Valtr, P. Roztočil, D. Dašek, R. Mušálek, F. Lukáč, J. Klečka, M. Janata, M. Arnoult-Růžičková, E. Mištová, L. Jelínek, P. Sajdl, J. Macák, Measurement system for in-situ estimation of instantaneous corrosion rate in supercritical water, *J Supercrit Fluids* 204 (2024) 106091. <https://doi.org/10.1016/J.SUPFLU.2023.106091>.