

List of author's publications related to the thesis

- [I] J. Veverka, M. Vilémová, Z. Chlup, H. Hadraba, F. Lukáč, Š. Csáki, J. Matějčíček, J. Vontorová, T. Chráska, Evolution of carbon and oxygen concentration in tungsten prepared by field assisted sintering and its effect on ductility, *Int. J. Refract. Met. Hard Mater.* 97 (2021) 105499. <https://doi.org/10.1016/J.IJRMHM.2021.105499>.

Cited 8 times.

- [II] M. Vilémová, F. Lukáč, J. Veverka, K. Illková, J. Matějčíček, Controlling the carbide formation and chromium depletion in W-Cr alloy during field assisted sintering, *Int. J. Refract. Met. Hard Mater.* 79 (2019) 217–223. <https://doi.org/10.1016/j.ijrmhm.2018.11.010>.

Cited 2 times.

- [III] J. Veverka, F. Lukáč, A.P. Kądziaława, M. Koller, Z. Chlup, H. Hadraba, M. Karlík, D. Legut, J. Vontorová, T. Chráska, M. Vilémová, Ultrafine-grained W-Cr composite prepared by controlled W-Cr solid solution decomposition, *Mater. Lett.* 304 (2021) 130728. <https://doi.org/10.1016/J.MATLET.2021.130728>.

Cited 1 time.

- [IV] J. Veverka, M. Vilémová, F. Lukáč, A.P. Kądziaława, D. Legut, J. Vontorová, J. Kozlík, T. Chráska, Decreasing the W-Cr solid solution decomposition rate: Theory, modelling and experimental verification, *J. Nucl. Mater.* 576 (2023) 154288. <https://doi.org/10.1016/J.JNUCMAT.2023.154288>.

List of other author's publications

- [V] J. Matějčík, J. Veverka, V. Nemanič, L. Cvrček, F. Lukáč, V. Havránek, K. Illková, Characterization of less common nitrides as potential permeation barriers, *Fusion Eng. Des.* 139 (2019) 74–80. <https://doi.org/10.1016/J.FUSENGDES.2018.12.056>.
Cited 10 times.
- [VI] J. Matějčík, R. Mušálek, J. Veverka, Materials and processing factors influencing stress evolution and mechanical properties of plasma sprayed coatings, *Surf. Coatings Technol.* 371 (2019) 3–13. <https://doi.org/10.1016/J.SURFCOAT.2019.01.105>.
Cited 8 times.
- [VII] S. Heuer, J. Matějčík, M. Vilémová, M. Koller, K. Illkova, J. Veverka, T. Weber, G. Pintsuk, J.W. Coenen, C. Linsmeier, Atmospheric plasma spraying of functionally graded steel/tungsten layers for the first wall of future fusion reactors, *Surf. Coatings Technol.* 366 (2019) 170–178. <https://doi.org/10.1016/J.SURFCOAT.2019.03.017>.
Cited 35 times.
- [VIII] J. Matějčík, M. Vilémová, J. Veverka, J. Kubásek, F. Lukáč, P. Novák, D. Preisler, J. Stráský, Z. Weiss, On the Structural and Chemical Homogeneity of Spark Plasma Sintered Tungsten, *Met.* 2019, Vol. 9, Page 879. 9 (2019) 879. <https://doi.org/10.3390/MET9080879>.
Cited 6 times.
- [IX] D. Terentyev, M. Vilémová, C. Yin, J. Veverka, A. Dubinko, J. Matějčík, Assessment of mechanical properties of SPS-produced tungsten including effect of neutron irradiation, *Int. J. Refract. Met. Hard Mater.* 89 (2020) 105207. <https://doi.org/10.1016/j.ijrmhm.2020.105207>.
Cited 24 times.
- [X] M. Koller, M. Vilémová, F. Lukáč, P. Beran, J. Čížek, H. Hadraba, J. Matějčík, J. Veverka, H. Seiner, An ultrasonic study of relaxation processes in pure and mechanically alloyed tungsten, *Int. J. Refract. Met. Hard Mater.* 90 (2020) 105233. <https://doi.org/10.1016/J.IJRMHM.2020.105233>.

[XI] J. Matějčík, J. Veverka, C. Yin, M. Vilémová, D. Terentyev, M. Wirtz, M. Gago, A. Dubinko, H. Hadraba, Spark plasma sintered tungsten – mechanical properties, irradiation effects and thermal shock performance, *J. Nucl. Mater.* 542 (2020) 152518. <https://doi.org/10.1016/J.JNUCMAT.2020.152518>.

Cited 13 times.

[XII] M. Biesuz, T.G. Saunders, J. Veverka, M. Bortolotti, J. Vontorová, M. Vilémová, M.J. Reece, Solidification microstructures of multielement carbides in the high entropy Zr-Nb-Hf-Ta-Cx system produced by arc melting, *Scr. Mater.* 203 (2021) 114091. <https://doi.org/10.1016/J.SCRIPTAMAT.2021.114091>.

Cited 5 times.

[XIII] Š. Csáki, F. Lukáč, T. Húlan, J. Veverka, M. Knappek, Preparation of anorthite ceramics using SPS, *J. Eur. Ceram. Soc.* 41 (2021) 4618–4624. <https://doi.org/10.1016/J.JEURCERAMSOC.2021.03.004>.

Cited 5 times.

[XIV] H. Deng, M. Biesuz, M. Vilémová, M. Kermani, J. Veverka, V. Tyrpekl, C. Hu, S. Grasso, Ultrahigh temperature flash sintering of binder-less tungsten carbide within 6 s, *Materials (Basel)*. 14 (2021) 7655. <https://doi.org/10.3390/MA14247655/S1>.

Cited 2 times

[XV] Š. Csáki, F. Lukáč, J. Veverka, T. Chráska, Preparation of Ti₃SiC₂ MAX phase from Ti, TiC, and SiC by SPS, *Ceram. Int.* 48 (2022) 28391–28395. <https://doi.org/10.1016/J.CERAMINT.2022.06.149>.

Cited 2 times.

[XVI] A.N. Oyedeji, D.O. Obada, M. Dauda, L.S. Kuburi, S. Csaki, J. Veverka, Fabrication and characterization of hydroxyapatite-strontium/polylactic acid composite for potential applications in bone regeneration, *Polym. Bull.* (2022). <https://doi.org/10.1007/S00289-022-04541-3>.