

Publikační list

Jméno: Ing. Martin Koller
Studijní program: Aplikace přírodních věd
Studijní obor: Fyzikální inženýrství

Publikace vztažené k tématu dizertační práce:

- [A] **M. KOLLER**, H. SEINER, M. LANDA, A. NIETO, A. AGARWAL, Anisotropic Elastic and Acoustic Properties of Bulk Graphene Nanoplatelets Consolidated by Spark Plasma Sintering. *Acta Physica Polonica A* **128** (4) (2015) 670–674. doi:10.12693/APhysPolA.128.670
- [B] H. SEINER, C. RAMIREZ, **M. KOLLER**, P. SEDLÁK, M. LANDA, P. MIRANZO, M. BELMONTE, M. I. OSENDI, Elastic properties of silicon nitride ceramics reinforced with graphene nanofillers. *Materials and Design* **87** (2015) 675–680. doi:10.1016/j.matdes.2015.08.044
- [C] **M. KOLLER**, T. CHRÁSKA, J. CINERT, O. HECZKO, J. KOPEČEK, M. LANDA, R. MUŠÁLEK, M. RAMEŠ, H. SEINER, J. STRÁSKÝ, M. JANEČEK, Mechanical and magnetic properties of semi-Heusler/light-metal composites consolidated by spark plasma sintering. *Materials and Design* **126** (2017) 351–357. doi:10.1016/j.matdes.2017.04.028
- [D] **M. KOLLER**, A. KRUISOVÁ, R. MUŠÁLEK, J. MATĚJÍČEK, H. SEINER, M. LANDA, On the relation between microstructure and elastic constants of tungsten/steel composites fabricated by spark plasma sintering. *Fusion Engineering and Design* **133** (2018) 51–58. doi:10.1016/j.fusengdes.2018.05.056
- [E] **M. KOLLER**, M. VILÉMOVÁ, F. LUKÁČ, P. BERAN, J. ČÍŽEK, H. HADRABA, J. MATĚJÍČEK, J. VEVERKA, H. SEINER, An ultrasonic study of relaxation processes in pure and mechanically alloyed tungsten. *International Journal of Refractory Metals & Hard Materials* **90** (2020) 105233. doi:10.1016/j.ijrmhm.2020.105233
- [F] **M. KOLLER**, A. KRUISOVÁ, H. SEINER, P. SEDLÁK, B. ROMÁN-MANSO, P. MIRANZO, M. BELMONTE, M. LANDA, Anisotropic elasticity of ceramic micro-scaffolds fabricated by robocasting. *Acta Physica Polonica A* **134** (2018) 799–803. doi:10.12693/APhysPolA.134.799
- [G] T. GRABEC, **M. KOLLER**, P. SEDLÁK, A. KRUISOVÁ, B. ROMÁN-MANSO, M. BELMONTE, P. MIRANZO, H. SEINER, Frequency-dependent acoustic energy focusing in hexagonal ceramic micro-scaffolds. *Wave Motion* **92** (2020) 102417. doi:10.1016/j.wavemoti.2019.102417

[H] M. BELMONTE, **M. KOLLER**, J. J. MOYANO, H. SEINER, P. MIRANZO, M. I. OSENDI, J. GONZÁLEZ-JULIÁN, Multifunctional 3D-Printed Cellular MAX-Phase Architectures. *Advanced Materials Technologies* (2019) 1900375. doi:10.1002/admt.201900375

Ostatní publikace:

- [I] H. SEINER, P. SEDLÁK, **M. KOLLER**, M. LANDA, C. RAMÍREZ, M. I. OSENDI, M. BELMONTE, Anisotropic elastic moduli and internal friction of graphene nanoplatelets/ silicon nitride composites. *Composites Science and Technology* **75** (2013) 93–97. doi:10.1016/j.compscitech.2012.12.003
- [II] **M. KOLLER**, P. SEDLÁK, H. SEINER, M. ŠEVČÍK, M. LANDA, J. STRÁSKÁ, M. JANEČEK, An ultrasonic internal friction study of ultrafine-grained AZ31 magnesium alloy. *Journal of Materials Science* **50** (2015) 808–818. doi:10.1007/s10853-014-8641-1
- [III] **M. KOLLER**, H. SEINER, P. SEDLÁK, J. KOTLAN, P. CTIBOR, R. MUŠÁLEK, M. LANDA, Application of laser-ultrasound for characterization of plasma-sprayed ceramics. *Defect and Diffusion Forum* **368** (2016) 69–72. doi:10.4028/www.scientific.net/ddf.368.69
- [IV] **M. KOLLER**, A. KRUISOVA, H. SEINER, P. SEDLAK, T. GRABEC, B. ROMAN-MANSO, P. MIRANZO, M. BELMONTE, M. LANDA, Ceramic phononic crystals with MHz-range frequency band gaps. *Proceedings of Meetings on Acoustics* **32** (2017) 045005. doi:10.1121/2.0000690
- [V] S. HEUER, J. MATĚJÍČEK, 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. *Surface and Coatings Technology* **366** (2019) 170–178. doi:10.1016/j.surfcoat.2019.03.017
- [VI] J. CIZEK, M. VILEMOVA, F. LUKAC, **M. KOLLER**, J. KONDAS, R. SINGH, Cold Sprayed Tungsten Armor for Tokamak First Wall. *Coatings* (2019) **9**(12) 836. doi:10.3390/coatings9120836
- [VII] M. JANOVSÁ, P. SEDLÁK, J. CIZEK, **M. KOLLER**, F. ŠIŠKA, H. SEINER, Characterization of bonding quality of a cold-sprayed deposit by laser resonant ultrasound spectroscopy. *Ultrasonics* **106** (2020) 106140. doi:10.1016/j.ultras.2020.106140

ORCID: <http://orcid.org/0000-0002-8213-4760>