

PUBLICATIONS (most important publications in 2016)

List of publications contains authentic translations of the titles into English in the original wording as translated by the Institute, i.e. without English language proofreading.

BOŽEK, Pavol - POKORNÝ, Peter - SVETLÍK, Jozef - LOZHNIKIN, Alexander - ARKHIPOV, Igor. The calculations of Jordan curves trajectory of the robot movement. In *International Journal of Advanced Robotic Systems*. Vol. 13, no. 5 (2016), online, [7]s. ISSN 1729-8806. V databáze: CC: CCC:000394805700001 ; WOS ; SCOPUS: DOI: 10.1177/1729881416663665.

CHAUS, Alexander. Structural and phase changes in carbides of the high-speed steel upon heat treatment. In *Physics of metals and metallography*. Vol. 117, no. 7 (2016), s. 684-692. ISSN 0031-918X. V databáze: DOI: DOI:10.1134/S0031918X16070048 ; SCOPUS ; WOS: CCC:000380217300005 ; MLJ.

CHAUS, Alexander - MARUKOVICH, Evgeny I. - SAHUL, Martin. Microstructure and Properties of Secondary Al-12%Si Alloy Rapidly Quenched from the Melt. In *Journal of Materials Engineering and Performance*. Vol. 25, iss. 11 (2016), online, s. 4776-4784. ISSN 1059-9495. V databáze: SCOPUS ; WOS: WOS:000386688600020 ; MLJ.

KOLEŇÁK, Roman - KOSTOLNÝ, Igor - SAHUL, Martin. Direct bonding of silicon with solders type Sn-Ag-Ti. In *Soldering and Surface Mount Technology*. Vol. 28, Iss. 3 (2016), s. 149-158. ISSN 0954-0911. V databáze: SCOPUS: DOI: 10.1108/SSMT-11-2015-0040 ; WOS ; MLJ: CCC:000382170800004.

TURYGIN, Yuri - BOŽEK, Pavol - NIKITIN, Yury R. - SOSNOVICH, Ella V. - ABRAMOV, Andrei I. Enhancing the reliability of mobile robots control process via reverse validation. In *International Journal of Advanced Robotic Systems*. Vol. 13, iss. 6 (2016), s. 1-8. ISSN 1729-8806. V databáze: CC: CCC:000394817400002 ; WOS ; SCOPUS: DOI:10.1177/1729881416680521.

DRBÚL, Mário - STANČEKOVÁ, Dana - BABIK, Ondrej - HOLUBJAK, Jozef - GÖRÖGOVÁ, Ingrid - VARGA, Daniel. Simulation possibilities of 3D measuring in progressive control of production. In *Manufacturing technology*. Vol. 16, No. 1 (2016), s. 53-58. ISSN 1213-2489. V databáze: SCOPUS.

KAPUSTOVÁ, Mária - GÖRÖGOVÁ, Ingrid. Application of computer simulation for optimization of technological parameters of precision forging. In *Tehnički Vjesnik - Technical Gazette*. Vol. 23, iss. 2 (2016), s. 357-361. ISSN 1330-3651. V databáze: SCOPUS: DOI: 10.17559/TV-20140625102450 ; WOS: WOS:000380230400006.

KOLEŇÁK, Roman - KOSTOLNÝ, Igor - DŘÍMAL, Daniel - RABATIN, Andrej. Wettability of soldering alloys at heating by electron beam. In *International Review of Mechanical Engineering*. Vol.10, no.2 (2016), s. 95-98. ISSN 1970-8734. V databáze: SCOPUS: DOI: <http://dx.doi.org/10.15866/ireme.v10i2.8283>.

KOLEŇÁK, Roman - PRACH, Michal - KOSTOLNÝ, Igor. Ultrasonic soldering of Cu and Al₂O₃ ceramics by use of Bi-La and Bi-Ag-La solders. In *Acta*

Polytechnica. Vol. 56, No. 2 (2016), online, s. 126-131. ISSN 1210-2709. V databáze: DOI: doi:10.14311/AP.2016.56.0126 ; SCOPUS.

KOLEŇÁK, Roman - KOSTOLNÝ, Igor. Study of direct bonding of ceramic and metallic materials with Zn4Al solder. In *Acta Polytechnica Hungarica*. Vol. 13, no. 4 (2016), s. 7-19. ISSN 1785-8860. V databáze: SCOPUS: DOI: 10.12700/APH.13.4.2016.4.1 ; WOS: WOS:000384766900001.

KOLEŇÁK, Roman. Solderability of Ceramic and Metal Materials with Utilization of Active Solders and Power Ultrasound. In *International Review of Mechanical Engineering*. Vol. 10, no. 6 (2016), s. 405-408. ISSN 1970-8734. V databáze: SCOPUS: DOI: 10.15866/ireme.v10i6.9516.

QAZIZADA, M.Emal - SVIATSKII, Vladislav - BOŽEK, Pavol. Analysis performance characteristics of centrifugal pumps. In *MM Science Journal*. October 2016, (2016), s. 1151-1159. ISSN 1803-1269(P). V databáze: SCOPUS.

RIDZOŇ, Martin - MOJŽIŠ, Milan - MARTINKOVIČ, Maroš - BELLA, Peter - DOMOVCOVÁ, Lucia - PARILÁK, Ľudovít. Mechanical properties and macroscopic deformation of precision seamless tubes during cold drawing. In *Academic Journal of Manufacturing Engineering*. Vol. 13, iss. 4 (2015), s. 26-31. ISSN 1583-7904. V databáze: SCOPUS.

ŠUGÁR, Peter - ŠUGÁROVÁ, Jana - PETROVIČ, Ján. Analysis of the effect of process parameters on part wall thickness variation in conventional metal spinning of Cr-Mn austenitic stainless steels. In *Strojníski vestnik - Journal of Mechanical Engineering*. Vol. 62, no. 3 (2016), s. 171-178. ISSN 0039-2480. V databáze: DOI: <http://dx.doi.org/10.5545/sv-jme.2015.2901> ; SCOPUS ; WOS.

ŠUGÁR, Peter - ŠUGÁROVÁ, Jana - FRNČÍK, Martin. Laser surface texturing of tool steel: textured surfaces quality evaluation. In *Open Engineering*. Vol. 6, iss. 1 (2016), online, s. 90-97. ISSN 2391-5439. V databáze: SCOPUS: DOI: 10.1515/eng-2016-0012 ; WOS.

URMINSKÝ, Ján - JÁŇA, Miroslav - MARÔNEK, Milan - MOROVIČ, Ladislav. Analysis of weld joint deformations by optical 3D scanning. In *Acta Polytechnica*. Vol. 56, No. 1 (2016), online, s. 76-80. ISSN 1210-2709. V databáze: DOI: doi:10.14311/APP.2016.56.0076 ; SCOPUS.