



TECHNICKÁ UNIVERZITA V KOŠICIACH  
Fakulta výrobných technológií

## Prehľad publikačnej činnosti

Ing. František Botko, PhD.  
Prešov, 2022

## 1. Najvýznamnejšie vedecké práce

<b>Web of Science™ Articles</b>	
Title	<b>Comparison of the influence of acoustically enhanced pulsating water jet on selected surface integrity characteristics of CW004A copper and CW614N brass</b>
Authors	LEHOCKÁ, Dominika - KLICHOVÁ, Dagmar - FOLDYNA, Josef - HLOCH, Sergej - HVIZDOŠ, Pavol - FIDES, Martin - BOTKO, František
Source information	Measurement. Vol. 110 (2017), p. 230-238
Specification	Curent Contents Connect IF= 2.359, Q1
Title	<b>Pulsating water jet erosion effect on a brass flat solid surface</b>
Authors	LEHOCKÁ, Dominika - KLICH, Jiří - BOTKO, František - FOLDYNA, Josef - HLOCH, Sergej - KEPIČ, Ján - KOVÁL, Karol - KREJČÍ, Lucie - ŠTORKÁN, Zdeněk
Source information	International Journal of Advanced Manufacturing Technology. Vol. 97, no. 1-4 (2018), p. 1099-1112
Specification	Curent Contents Connect : IF= 2.601, Q2
Title	<b>Technological assurance of high-efficiency machining of Internal rope threads on CNC milling machines</b>
Authors	NESHTA, Anna - KRYVORUCHKO, Dmytro - HATALA, Michal - IVANOV, Vitalii - BOTKO, František - RADCHENKO, Svetlana - MITAL, Dušan
Source information	Journal of manufacturing science and engineering : Transactions of the ASME B. Journal of manufacturing science. - New York (USA) : ASME Press Roč. 140, č. 7 (2018), s. 1-36
Specification	Curent Contents Connect (2020): IF= 2.578, Q3
Title	<b>Ergonomic rationalization of lighting in the working environment. Part I.: Proposal of rationalization algorithm for lighting redesign</b>
Authors	DUPLÁKOVÁ, Darina - FLIMEL, Marián - DUPLÁK, Ján - HATALA, Michal - RADCHENKO, Svetlana - BOTKO, František
Source information	International Journal of Industrial Ergonomics. - Amsterdam (Holandsko) : Elsevier, 1986 Roč. 71 (2019), s. 92-102
Specification	Curent Contents Connect: IF= 1.429, Q2
Title	<b>Prediction Model of Surface Roughness Parameters of Structural Steel Created by Plasma Arc Cutting via Full Factor Experiment</b>
Authors	Duplák, Ján - Hatala, Michal - Dupláková, Darina - Botko, Frantisek
Source information	Materialwissenschaft und Werkstofftechnik, Vol. 50, No. 10, p. 1207-1220, 2019
Specification	Curent Contents Connect (2018): IF= 0.556, Q4

Title	<b>Effect of Glass and Carbon Fibres on the Compressive and Flexural Strength of the Polymer Concrete Composite</b>
Authors	Petruska, Ondrej - Zajac, Jozef - Duplakova, Darina - Simkulet, Vladimir - Duplak, Jan - Botko, Frantisek
Source information	Advances in Production Engineering & Management, Vol. 15, No. 4, p. 441-452, 2020
Specification	Curent Contents Connect (2019): IF= 2.347, Q2
Title	<b>Comparison of ultrasonically enhanced pulsating water jet erosion efficiency on mechanical surface treatment on the surface of aluminum alloy and stainless steel</b>
Authors	LEHOCKÁ, Dominika - KLICH, Jiří - BOTKO, František - SIMKULET, Vladimír - FOLDYNA, Josef - KREJČÍ, Lucie - ŠTORKÁN, Zdeněk - KEPIČ, Ján - HATALA, Michal
Source information	The International Journal of Advanced Manufacturing Technology. - Berlin (Nemecko) : Springer International Publishing AG Roč. 103, č. 5-8 (2019), s. 1647-1656
Specification	Curent Contents Connect : IF= 2.496, Q2
Title	<b>Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L</b>
Authors	LEHOCKÁ, Dominika - BOTKO, František - KLICH, Jiří - SITEK, Libor - HVIZDOŠ, Pavol - FIDES, Martin - ČEP, Robert
Source information	The International Journal of Advanced Manufacturing Technology. - Berlin (Nemecko) : Springer International Publishing AG Roč. 107, č. 5-6 (2020), s. 2719-2730
Specification	Curent Contents Connect : IF= 2.496, Q2
Title	<b>Identification of Topography of Surfaces Created by Turning Biomaterials with Optical Profilometry</b>
Authors	MITALOVÁ, Zuzana - MITAL, Dušan - BOTKO, František - LITECKÁ, Juliána - ZAJAC, Jozef - HARNIČÁROVÁ, Marta - VALÍČEK, Jan
Source information	BioResources. - Raleigh (USA) : NC State University Roč. 15, č. 2 (2020), s. 2483-2494
Specification	Curent Contents Connect : IF= 1.409, Q2
Title	<b>Effect of friction coefficient change on internally shaped tubes drawing process using finite elements method</b>
Authors	BOTKO, František - BELLA, Peter - HATALA, Michal - BERAXA, Pavol - LEHOCKÁ, Dominika - ŠUŤÁK, Dušan
Source information	Materialwissenschaft und Werkstofftechnik = Materials Science and Engineering Technology. - Weinheim (Nemecko) : Wiley-VCH Roč. 51, č. 7 (2020), s. 948-956
Specification	Curent Contents Connect : IF= 0.854, Q4
Title	<b>Comprehensive analysis of cold formed tube in drawing process using simulation</b>
Authors	ŠUŤÁK, Dušan - HATALA, Michal - MITAL, Dušan - DUPLÁKOVÁ, Darina - BOTKO, František

Source information	International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 20, č. 1 (2021), s. 99-110
Specification	Curent Contents Connect: IF= 2.492, Q3
Title	<b>Impact of nitrocarburizing on hardening of reciprocating compressor's valves</b>
Authors	BERLADIR, Kristina - HATALA, Michal - HOVORUN, Tetiana - PAVLENKO, Ivan - IVANOV, Vitalii - BOTKO, František - GUSAK, Oleksandr
Source information	Coatings. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 5 (2022), s. [1-20]
Specification	Curent Contents Connect: IF= 2.881, Q2
Title	<b>Machining of wood plastic composite using awj technology with controlled output quality</b>
Authors	MITALOVÁ, Zuzana - BOTKO, František - VANDŽURA, Radoslav - LITECKÁ, Juliána - MITAL, Dušan - MITAL, Dušan - SIMKULET, Vladimír
Source information	Machines. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 10, č. 7 (2022), s. [1-12]
Specification	Curent Contents Connect: IF= 2.899, Q2
Title	<b>Locating Chart Choice Based on the Decision-Making Approach</b>
Authors	IVANOV, Vitalii - BOTKO, František - DEHTIAROV, Ivan - KOČIŠKO, Marek - EVTUHOV, Artem - PAVLENKO, Ivan - TROJANOWSKA, Justyna
Source information	Materials. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 15, č. 10 (2022), s. [1-15]
Specification	Curent Contents Connect (2018): IF= 3.748, Q1
Title	<b>Development of flexible fixtures with incomplete locating: connecting rods machining case study</b>
Authors	Vitalii - BOTKO, František - DEHTIAROV, Ivan - KOČIŠKO, Marek - EVTUHOV, Artem - PAVLENKO, Ivan - TROJANOWSKA, Justyna
Source information	Machines. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 10, č. 7 (2022), s. [1-13]
Specification	Curent Contents Connect: IF= 2.899, Q2
Title	<b>Eddy current testing of artificial defects in 316l stainless steel samples made by additive manufacturing technology</b>
Authors	GELATKO, Matúš - HATALA, Michal - BOTKO, František - VANDŽURA, Radoslav - HAJNYŠ, Jiří
Source information	Materials. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 15, č. 19 (2022), s. [1-21]
Specification	Curent Contents Connect (2018): IF= 3.748, Q1
Title	<b>Friction properties of the heat-treated electroless Ni coatings embedded with c-BN nanoparticles</b>

Authors	KANDEVA, Mara - ZAGORSKI, Mihail - NIKOLIČ, Ružica - STOJANOVIĆ, Blaža - BUT, Adrian - BOTKO, František - PITEL, Ján - VENCL, Aleksandar
Source information	Coatings. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 7(2022), s. [1-11] [online].
Specification	Curent Contents Connect (2022): IF= 3.236, Q2

## 2. Prehľad vedeckých prác, odborných prác a učebníc

Dátum generovania výstupu: 17.11.2022, 0:12:46

Skupina A1 (do 31.1.2022) - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)

Počet záznamov: 1

AAA - Vedecké monografie vydané v zahraničných vydavateľstvách (1)

Skupina A2 (do 31.1.2022) - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, CAA, CAB, EAI, EAJ, FAI)

Počet záznamov: 2

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (2)

Skupina B (do 31.1.2022) - Publikácie v karentovaných časopisoch alebo registrované vo WoS a Scopus (ADC, ADD, BDC, BDD, CDC, CDD, ADM, ADN, BDM, BDN)

Počet záznamov: 26

ADC - Vedecké práce v zahraničných karentovaných časopisoch (11)

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (15)

Skupina D (do 31.1.2022) - Ostatné publikácie (ACC, ACD, ADE, ADF, AEC, AED, AEG, AEH, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, AEM, AEN, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEE, BEF, BFA, BFB, CBA, CBB, CDE, CDF)

Počet záznamov: 45

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (7)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (1)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (3)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (10)

AFD - Publikované príspevky na domácich vedeckých konferenciách (17)

AFG - Abstrakty príspevkov zo zahraničných konferencií (3)

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (2)

BFA - Abstrakty odborných prác zo zahraničných podujatí (konferencie...) (1)

Skupina Patenty (do 31.1.2022) - Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky dizajnov, prihlášky ochranných známok,... (AGJ)

Počet záznamov: 3

AGJ - Autorské osvedčenia, patenty, objavy (3)

Záznamy v kategóriách od 1.2.2022

Skupina V - Vedecký výstup publikačnej činnosti (V1, V2, V3)

Počet záznamov: 10

V2 - Výstup publikačnej činnosti ako časť editovanej knihy alebo zborník - Vedecký (3)

### V3 - Výstup publikačnej činnosti z časopisu - Vedecký (9)

Počet záznamov spolu: 89

Menný zoznam publikácií:

#### AAA - Vedecké monografie vydané v zahraničných vydavateľstvách(1)

AAA001 HATALA, Michal - BOTKO, František - MITAL', Dušan: **Non-destructive techniques for testing cold drawn tubes** / - 1. vyd. - Lüdenscheid : RAM-Verlag - 2020. - 100 s. [print]. - ISBN 978-3-942303-97-2.

#### ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách(2)

ACB001 BOTKO, František - HATALA, Michal - BOTKOVÁ, Dominika: **Technológia tvárnenia Procesy objemového tvárnenia** / - 1. vyd. - Košice : Technická univerzita v Košiciach - 2020. - 92 s. [CD-ROM]. - ISBN 978-80-553-3647-3.

ACB002 ZAJAC, Jozef - HATALA, Michal - BOTKO, František: **Aplikácie procesných médií vo výrobných technológiách** / - 1. vyd. - Košice : Technická univerzita v Košiciach - 2020. - 99 s. [CD-ROM]. - ISBN 978-80-553-3656-5.

#### ADC - Vedecké práce v zahraničných karentovaných časopisoch(11)

ADC001 BOTKOVÁ, Dominika - KLICHOVÁ, Dagmar - FOLDYNA, Josef - HLOCH, Sergej - HVIZDOŠ, Pavol - FIDES, Martin - BOTKO, František: **Comparison of the influence of acoustically enhanced pulsating water jet on selected surface integrity characteristics of CW004A copper and CW614N brass** / - 2017. In: Measurement. Vol. 110 (2017), p. 230-238. - ISSN 0263-2241

#### Ohlasy:

2018 [01] HOU, Rongguo et al. Experimental study of the ultrasonic vibration-assisted abrasive waterjet micromachining the quartz glass In: Advances in Materials Science and Engineering (2018), Art. no. 8904234 ISSN: 1687-8434 DB: WOS [WOS:000425402200001]

2018 [01] MICHALIK, Peter et al. Draft jig structure design for measuring deformation of thin-walled robotic or conveyor components In: Advances in science and technology-research journal Vol. 12, no. 3 (2018), p. 55-60 ISSN: 2299-8624 DB: WOS [WOS:000451866500008]

2018 [01] LEHOCKA, D., KLICH, J., BOTKO, F. et al.: Pulsating water jet erosion effect on a brass flat solid surface In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.97, no.1-4 (2018) p.1099-1112 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-018-1882-4 [WOS:000435594100084]

2019 [01] LIU, Xiaochu et al. Waterjet machining and research developments: a review In: International Journal of Advanced Manufacturing Technology Vol. 102, no. 5-8 (2019), p. 1257-1335 ISSN: 0268-3768 DB: WOS [WOS:000469002200019]

2019 [2] SRIVASTAVA, Ashish Kumar et al. Parametric Study During Abrasive Water Jet Turning of Hybrid Metal Matrix Composite In: ICMEM 2018 : Advances in Manufacturing Engineering and Materials : Lecture Notes in Mechanical Engineering : Nový Smokovec : 18-22 Jun, 2018 P. 72-84 ISSN: 2195-4356 ISBN: 978-3-319-99353-9 DB: WOS [WOS:000462541600009]

2019 [01] TIRPAK, P. et al. Evaluation of the Longitudinal Roughness of the Thin-Walled Cooler for the Robot Control System Made Using CAM Programming In: Lecture Notes in Mechanical Engineering DOI: 10.1007/978-3-030-18682-1\_22 (2019), p. 285-296 ISSN: 2195-4356 DB: Scopus [WOS:000490714000022]

2019 [01] MICHALIK, Peter et al. Assessment of the Production Reducer for Clamping the Drilling Tools In: ICMEM 2018 : International Conference on Manufacturing Engineering and Materials : Nový Smokovec, 18-22 Jul, 2018 P. 557-566 ISBN: 978-3-319-99353-9 DB: WOS [WOS:000462541600059]

2019 [01] TIRPAK, Peter et al. Intelligent Programming of Robotic Flange Production by Means of CAM Programming In: Open Engineering Vol. 9, no. 1 (2020), p. 571-579 ISSN: 2391-5439 DB: WOS [WOS:000505160300001]

2019 [01] SRIVASTAVA, Ashish Kumar, NAG, Akash, DIXIT, Amit Rai, HLOCH, Sergej et al.: Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED In: MEASUREMENT vol.131, (2019) p.628-639 ISSN:0263-2241 eISSN:1873-412X Doi:10.1016/j.measurement.2018.09.026 [WOS:000447167700067]

2019 [01] KLICHOVA, Dagmar, KLICH, Jiri, ZLAMAL, Tomas et al.: The Use of Areal Parameters for the Analysis of the Surface Machined Using the Abrasive Waterjet Technology In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.36-44 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_5 [WOS:000462541600005]

2019 [01] KLICH, Jiri, KLICHOVA, Dagmar, SOUCEK, Kamil et al.: Comparison of Non-destructive Sensing Methods on Surface Created by Waterjet Technology In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.114-123 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_13 [WOS:000462541600013]

2019 [01] LEHOCKA, Dominika, SIMKULET, Vladimir, KLICH, Jiri et al.: Evaluation of Possibility of AISI 304 Stainless Steel Mechanical Surface Treatment with Ultrasonically Enhanced Pulsating Water Jet In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.163-172 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_18 [WOS:000462541600018]

2019 [01] NAG, Akash, HLOCH, Sergej, DIXIT, Amit Rai et al.: Investigation on Pulsating Liquid Jet with Physiological Saline on Aluminium Surface In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.63-71 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_8 [WOS:000462541600008]

2019 [01] SRIVASTAVA, Madhulika, HLOCH, Sergej, GUBELJAK, Nenad et al.: Surface integrity and residual stress analysis of pulsed water jet peened stainless steel surfaces In: MEASUREMENT vol.143, (2019) p.81-92 ISSN:0263-2241 eISSN:1873-412X Doi:10.1016/j.measurement.2019.04.082 [WOS:000470062200009]

2019 [01] LEHOCKA, Dominika, KLICH, Jiri, BOTKO, Frantisek et al.: Comparison of ultrasonically enhanced pulsating water jet erosion efficiency on mechanical surface treatment on the surface of aluminum alloy and stainless steel In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.103, no.5-8 (2019) p.1647-1656 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-019-03680-8 [WOS:000476625500001]

2019 [01] LEHOCKA, Dominika, KLICH, Jiri, PITEL, Jan et al.: Analysis of the Pulsating Water Jet Maximum Erosive Effect on Stainless Steel In: ADVANCES IN MANUFACTURING II, VOL 4 - MECHANICAL ENGINEERING : Poznan (2019) p.233-241 ISBN:978-3-030-16943-5 ISSN:2195-4356 Doi:10.1007/978-3-

030-16943-5\_21

[WOS:000490712900021]

2020 [01] ZELENÁK, Michal - RIHA, Zdenek - JANDACKA, Petr Visualization and velocity analysis of a high-speed modulated water jet generated by a hydrodynamic nozzle In: Measurement Vol. 159 (2020), art no. 107753 ISSN: 0263-2241 DB: WOS  
[WOS:000535953600014]

2020 [01] ANSARI, M.A., ABDI BEHNAGH, R., SALVADORI, A. Numerical analysis of high-speed water jet spot welding using the arbitrary Lagrangian-Eulerian (ALE) method In: International Journal of Advanced Manufacturing Technology DOI: 10.1007/s00170-020-06358-8 (2020) ISSN: 0268-3768 DB: Scopus

2020 [01] MICHALIK, Peter et al. Optimizing Component Production with Multi-axis Turning Technology In: EAI/Springer Innovations in Communication and Computing DOI: 10.1007/978-3-030-34272-2\_25 ISSN: 2522-8595 DB: Scopus

2020 [01] LEHOČKA, Dominika, BOTKO, František, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3  
[WOS:000521789600004]

2020 [01] HLOCH, Sergej, SRIVASTAVA, Madhulika, NAG, Akash et al.: Effect of pressure of pulsating water jet moving along stair trajectory on erosion depth, surface morphology and microhardness In: WEAR vol.452, (2020) ISSN:0043-1648 eISSN:1873-2577 Doi:10.1016/j.wear.2020.203278  
[WOS:000539275900005]

2021 [01] ANSARI, Mohammad Ali, BEHNAGH, Reza Abdi, SALVADORI, Alberto: Numerical analysis of high-speed water jet spot welding using the arbitrary Lagrangian-Eulerian (ALE) method In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.112, no.1-2 (2021) p.491-504 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-06358-8  
[WOS:000591272500004]

2021 [01] SRIVASTAVA, Madhulika, NAG, Akash, CHATTOPADHYAYA, Somnath, HLOCH, Sergej: Standoff Distance in Ultrasonic Pulsating Water Jet In: MATERIALS vol.14, no.1 (2021) eISSN:1996-1944 Doi:10.3390/ma14010088  
[WOS:000606122600001]

2021 [01] MICHALIK, Peter, FABIANOVA, Jana, HRABOVSKY, Leopold et al.: Assessment of a robot base production using CAM programming for the FANUC control system In: OPEN ENGINEERING vol.11, no.1 (2021) p.922-928 ISSN:2391-5439 Doi:10.1515/eng-2021-0085  
[WOS:000704516800001]

2021 [01] DUPLAK, Jan, DUPLAKOVA, Darina, HATALA, Michal et al.: Surveying the topography and examining the quality of the machined surface of selected hardened steels in the milling process In: JOURNAL OF ENGINEERING RESEARCH vol.9, no.3B (2021) p.285-301 ISSN:2307-1877 eISSN:2307-1885 Doi:10.36909/jer.v9i3A.9337  
[WOS:000693243300019]

ADC002 BOTKOVÁ, Dominika - KLICH, Jiří - BOTKO, František - FOLDYNA, Josef - HLOCH, Sergej - KEPIČ, Ján - KOVÁĽ, Karol - KREJČÍ, Lucie - ŠTORKÁN, Zdeněk: **Pulsating water jet erosion effect on a brass flat solid surface** / - 2018. In: International Journal of Advanced Manufacturing Technology. Vol. 97, no. 1-4 (2018), p. 1099-1112. - ISSN 0268-3768 Spôsob prístupu:  
[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=1&SID=F36QBxk4dqZ6eEY8Pb&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F36QBxk4dqZ6eEY8Pb&page=1&doc=1).

Ohlasy:



- 2019 [01] LIU, Xiaochu et al. Waterjet machining and research developments: a review In: International Journal of Advanced Manufacturing Technology Vol. 102, no. 5-8 (2019), p. 1257-1335 ISSN: 0268-3768 DB: WOS [WOS:000469002200019]
- 2019 [01] PEREC, Andrzej - RADOMSKA-ZALAS, Aleksandra Modeling of Abrasive Water Suspension Jet Cutting Process Using Response Surface Method In: TKI 2018 : 15th Conference Computational Technologies in Engineering : Book series: AIP Conference Proceedings : Jora Wielka, 16-19 October, 2018 Vol. 2078 (2019), article no. UNSP 020051 ISSN: 0094-243X ISBN: 978-0-7354-1806-6 DB: WOS [WOS:000472949600051]
- 2019 [01] PEREC, Andrzej Investigation of Limestone Cutting Efficiency by the Abrasive Water Suspension Jet In: ICMEM 2018 : International Conference on Manufacturing Engineering and Materials : Novy Smokovec, 18-22 Jun, 2018 P. 124-134 ISBN: 978-3-319-99353-9 DB: WOS [WOS:000462541600014]
- 2019 [01] LEHOCKA, Dominika, KLICH, Jiri, BOTKO, Frantisek et al.: Comparison of ultrasonically enhanced pulsating water jet erosion efficiency on mechanical surface treatment on the surface of aluminum alloy and stainless steel In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.103, no.5-8 (2019) p.1647-1656 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-019-03680-8 [WOS:000476625500001]
- 2019 [01] LEHOCKA, Dominika, KLICH, Jiri, PITEL, Jan et al.: Analysis of the Pulsating Water Jet Maximum Erosive Effect on Stainless Steel In: ADVANCES IN MANUFACTURING II, VOL 4 - MECHANICAL ENGINEERING : Poznan (2019) p.233-241 ISBN:978-3-030-16943-5 ISSN:2195-4356 Doi:10.1007/978-3-030-16943-5\_21 [WOS:000490712900021]
- 2019 [01] GAJDOVCIK, Peter, LEHOCKA, Dominika, DUPLAKOVA, Darina et al.: Design of Printed Circuit Board Production using Water Jet Technology In: TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS vol.8, no.4 (2019) p.1313-1318 ISSN:2217-8309 eISSN:2217-8333 Doi:10.18421/TEM84-30 [WOS:000500710200030]
- 2020 [01] LIANG, Zhongwei et al. Adaptive Prediction of Abrasive Impacting Pressure Effectiveness in Strengthen Jet Grinding using NSAE-ANFIS In: International Journal of Advanced Manufacturing Technology Vol. 106, no. 7-8 (2020), p. 2805-2828 ISSN: 0268-3768 DB: WOS [WOS:000506725800011]
- 2020 [01] LIN, B., WANG, Z., WANG, R. Fracture extension and coal breaking performance by high-pressure gas-liquid jet flow In: Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology Vol. 49, no. 1 (2020), p. 1-12 ISSN: 1000-1964 DB: Scopus
- 2020 [01] Lin, Baiquan, Wang, Zheng, Wang, Rui Fracture extension and coal breaking performance by high-pressure gas-liquid jet flow In: Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology Roč. 49, č. 1 (2020), 1-12 ISSN: 1000-1964 DB: Scopus
- 2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3 [WOS:000521789600004]
- 2020 [01] TRIPATHI, Rupam, HLOCH, Sergej, CHATTOPADHYAYA, Somnath et al.: Influence of frequency change during sandstone erosion by pulsed waterjet In: MATERIALS AND MANUFACTURING PROCESSES vol.35, no.2 (2020) p.187-194 ISSN:1042-6914 eISSN:1532-2475 Doi:10.1080/10426914.2019.1669800 [WOS:000488070500001]

2021 [01] SRIVASTAVA, Madhulika, NAG, Akash, CHATTOPADHYAYA, Somnath, HLOCH, Sergej: Standoff Distance in Ultrasonic Pulsating Water Jet In: MATERIALS vol.14, no.1 (2021) eISSN:1996-1944 Doi:10.3390/ma14010088 [WOS:000606122600001]

2021 [01] NAG, Akash, HVIZDOS, Pavol, DIXIT, Amit Rai, HLOCH, Sergej et al.: Influence of the frequency and flow rate of a pulsating water jet on the wear damage of tantalum In: WEAR vol.477, (2021) ISSN:0043-1648 eISSN:1873-2577 Doi:10.1016/j.wear.2021.203893 [WOS:000679170600003]

2021 [01] AMEGADZIE, M. Y., MOREAU, E. D., CHRISTENSEN, B. et al.: Ultrasonic pulsed waterjet surface peening of an industrial aluminum-based metal matrix composite In: SURFACE & COATINGS TECHNOLOGY vol.426, (2021) ISSN:0257-8972 eISSN:1879-3347 Doi:10.1016/j.surfcoat.2021.127795 [WOS:000710726700022]

2022 [01] HLOCH, Sergej, SOUCEK, Kamil, SVOBODOVA, Jaroslava et al.: Subsurface microtunneling in ductile material caused by multiple droplet impingement at subsonic speeds In: WEAR vol.490-491, (2022) ISSN:0043-1648 eISSN:1873-2577 Doi:10.1016/j.wear.2021.204176 [WOS:000754298000001]

ADC003 NESHTA, Anna - KRYVORUCHKO, Dmytro - HATALA, Michal - IVANOV, Vitalii - BOTKO, František - RADCHENKO, Svetlana - MITAL', Dušan: **Technological assurance of high-efficiency machining of Internal rope threads on CNC milling machines** / - 2018. In: Journal of manufacturing science and engineering : Transactions of the ASME B. Journal of manufacturing science. - New York (USA) : ASME Press Roč. 140, č. 7 (2018), s. 1-36 [print]. - ISSN 1087-1357 Spôsob prístupu: [https://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=3&SID=D2t56hH8S92S5WXalpb&page=1&doc=1](https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=3&SID=D2t56hH8S92S5WXalpb&page=1&doc=1).

#### Ohlasy:

2019 [01] PANDA, A. et al. Modelling Business Process of Manufacturing for Air Compressors In: TEM Journal -Technology Education Management Informatics Vol. 8, no. 2 (2019), p. 430-436 ISSN: 2217-8309 DB: WOS

2020 [01] KUSHNIROV, Pavlo et al. Investigation of the dynamic state of adjustable milling heads In: Lecture Notes in Mechanical Engineering : Advances in Design, Simulation and Manufacturing 2 P. 169-179 ISSN: 2195-4356 ISBN: 978-3-030-22365-6 DB: WOS

2020 [01] ZAJAC, Jozef et al. Prediction of Cutting Material Durability by  $T = f(vc)$  Dependence for Turning Processes In: Processes Vol. 7, no. 8 (2020), art.no. 789 ISSN: 2227-9717 DB: WOS

2020 [01] Zajac, Jozef et al. Prediction of Cutting Material Durability by  $T = f(vc)$  Dependence for Turning Processes In: Processes Roč. 8, č. 7 (2020), s. [1-20] [online] ISSN: 2227-9717 (online) DB: WOS

2019 [01] Panda, Anton et al. Modelling business process of manufacturing for air compressors In: TEM Journal : Technology, Education, Management, Informatics Roč. 8, č. 2 (2019), s. 430-436 [print, online] ISSN: 2217-8309 DB: WOS

2020 [01] Kushnirov, Pavlo et al. Investigation of the dynamic state of adjustable milling heads In: Advances in Design, Simulation and Manufacturing 2 : Proceedings of the 2nd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange, DSMIE-2019, June 11-14, 2019, Lutsk, Ukraine 169-179 [print, online] ISBN: 978-3-030-22364-9 DB: Scopus

ADC004 DUPLÁKOVÁ, Darina - FLIMEL, Marián - DUPLÁK, Ján - HATALA, Michal - RADCHENKO, Svetlana - BOTKO, František: **Ergonomic rationalization of lighting in the working environment. Part I.: Proposal of rationalization algorithm for lighting redesign** / - 2019. In: International Journal of Industrial Ergonomics. - Amsterdam (Holandsko) :

Elsevier, 1986 Roč. 71 (2019), s. 92-102 [print]. - ISSN 0169-8141 Spôsob prístupu:  
[http://apps.webofknowledge.com/full\\_record.do?product=CCC&search\\_mode=GeneralSearch&qid=24&SID=D5U1v8YYraEFX4TZ2PJ&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=CCC&search_mode=GeneralSearch&qid=24&SID=D5U1v8YYraEFX4TZ2PJ&page=1&doc=1).

**Ohlasy:**

2019 [01] CIMINO, C., NEGRI, E., FUMAGALLI, L. Review of digital twin applications in manufacturing In: Computers in Industry Vol. 113 (2019), article no. 103130 ISSN: 0166-3615 DB: Scopus  
[WOS:000498330800006]

2019 [01] Cimino, Chiara, Negri, Elisa, Fumagalli, Luca Review of digital twin applications in manufacturing In: Computers in Industry : An International, Application Oriented Research Journal Roč. 113 (2019)[print] ISSN: 0166-3615 DB: Scopus

2020 [01] ABDOLLAHIA, R., AREF, M.H. A Novel Lighting Design System in Masoumeh With an Approach to Improving Technical and Economic Conditions In: Journal of Applied Research and Technology Vol. 18, no. 4 (2020), p. 161-168 ISSN: 1665-6423 DB: Scopus

2020 [01] LIM, Kendrik Yan Hong - ZHENG, Pai - CHEN, Chun-Hsien A state-of-the-art survey of digital twin: Techniques, engineering product lifecycle management and business innovation perspectives In: Journal of Intelligent Manufacturing Vol. 31, no. 6 (2020), p. 1313-1337 ISSN: 1572-8145 DB: WOS  
[WOS:000544047100001]

2020 [01] Lim, Kendrik Yan Hong, Zheng, Pai, Chen, Chun Hsien A state-of-the-art survey of Digital Twin: techniques, engineering product lifecycle management and business innovation perspectives In: Journal of Intelligent Manufacturing Roč. 31, č. 6 (2020), s. ? 1313-? 1337 [print, online] ISSN: 0956-5515 DB: WOS

2020 [01] Abdollahia, Rohollah, Aref, Mohammad Hossein A novel lighting design system in Masoumeh with an approach to improving technical and economic conditions In: Journal of Applied Research and Technology Roč. 18, č. 4 (2020), 161-168 [print, online] ISSN: 1665-6423 DB: Scopus

2021 [01] Kalyanam, Raghuram, Hoffmann, Sabine A Reinforcement Learning-Based Approach to Automate the Electrochromic Glass and to Enhance the Visual Comfort In: Applied sciences Roč. 11, č. 15 (2021)[online] ISSN: 2076-3417 (online) DB: WOS  
[WOS:000681848100001]

2021 [01] Kossowski, Tomasz, Matuszewski, Lukasz Non-Real-Time Wireless System for Lightning Effect Measurements In: Applied sciences Roč. 11, č. 9 (2021)[online] ISSN: 2076-3417 (online) DB: WOS  
[WOS:000649916300001]

2021 [01] CIMINO, Chiara, FERRETTI, Gianni, LEVA, Alberto: Harmonising and integrating the Digital Twins multiverse: A paradigm and a toolset proposal In: COMPUTERS IN INDUSTRY vol.132, (2021) ISSN:0166-3615 eISSN:1872-6194 Doi:10.1016/j.compind.2021.103501  
[WOS:000697757400010]

2021 [01] EO, Yun Jae, KIM, Seohyeon, LEE, Keyong Nam et al.: Fabrication of Circadian Light Meter with Non-Periodic Optical Filters to Evaluate the Non-Visual Effects of Light on Humans In: APPLIED SCIENCES-BASEL vol.11, no.18 (2021) eISSN:2076-3417 Doi:10.3390/app11188283  
[WOS:000699157100001]

2021 [01] ABDOLLAHI, Rohollah: Design of lighting system for sacred places with the approach of improving technical and economic conditions In: AIN SHAMS ENGINEERING JOURNAL vol.12, no.3 (2021) p.2899-2905 ISSN:2090-4479 eISSN:2090-4495 Doi:10.1016/j.asej.2021.02.021  
[WOS:000700788600012]

2021 [01] ZAUNER, Johannes, PLISCHKE, Herbert: Designing Light for Night Shift Workers:

Application of Nonvisual Lighting Design Principles in an Industrial Production Line In: APPLIED SCIENCES-BASEL vol.11, no.22 (2021) eISSN:2076-3417 Doi:10.3390/app112210896 [WOS:000724160400001]

2022 [01] SCORPIO, Michelangelo, LAFFI, Roberta, TEIMORZADEH, Ainoor et al.: A calibration methodology for light sources aimed at using immersive virtual reality game engine as a tool for lighting design in buildings In: JOURNAL OF BUILDING ENGINEERING vol.48, (2022) eISSN:2352-7102 Doi:10.1016/j.jobe.2022.103998 [WOS:000775471200003]

ADC005 DUPLÁK, Ján - HATALA, Michal - DUPLÁKOVÁ, Darina - BOTKO, František: **Prediction model of surface roughness parameters of structural steel created by plasma arc cutting via full factor experiment** / - 2019. In: Materialwissenschaft und Werkstofftechnik = Materials Science and Engineering Technology. - Weinheim (Nemecko) : Wiley-VCH Roč. 50, č. 10 (2019), s. 1207-1220 [print, online]. - ISSN 0933-5137

#### Ohlasy:

2020 [01] CHUAH, Yon Jin et al. Surface Modifications to Polydimethylsiloxane Substrate for Stabilizing Prolonged Bone Marrow Stromal Cell Culture In: Colloids and Surfaces B-Biointerfaces Vol. 191 (2020), art. no. 110995 ISSN: 0927-7765 DB: WOS [WOS:000535696800037]

2020 [3] AGBONOGA, Ekhaesomi A. Effect of Process Parameters on the Surface Roughness and Kerf Width of Mild Steel during Plasma Arc Cutting Using Response Surface Methodology In: FUOYE Journal of Engineering and Technology Vol. 5, no. 1 (2020), p. 67-71 ISSN: 2579-0625

2020 [01] Chuah, Yon Jin et al. Surface modifications to polydimethylsiloxane substrate for stabilizing prolonged bone marrow stromal cell culture In: Colloids and Surfaces B: Biointerfaces : An International Journal Devoted to Fundamental and Applied Research on Colloid and Interfacial Phenomena in Relation to Systems of Biological Origin č. 191 (2020)[print, online] ISSN: 0927-7765 DB: WOS

2020 [3] Agbonoga, A., Ekhaesomi et al. Effect of Process Parameters on the Surface Roughness and Kerf Width of Mild Steel during Plasma Arc Cutting Using Response Surface Methodology In: FUOYE Journal of Engineering and Technology Roč. 5, č. 1 (2020), s. 67-71 [print, online] ISSN: 2579-0617

2021 [01] KLICHOVA, D. et al. Creating a Database for Turned Surfaces In: Lecture Notes in Mechanical Engineering : WJ 2019 : 6th International Conference on Water Jet - Research, Development, Application : Celadna, 20-22 November, 2019 P. 105-114 ISSN: 2195-4356 ISBN: 978-3-030-53490-5 DB: Scopus

2021 [01] Klichová, Dagmar et al. Creating a Database for Turned Surfaces In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications 105-114 [online, print] ISBN: 978-3-030-53490-5 DB: Scopus

2022 [01] MANGARAJ, Soumya Ranjan, BAGAL, Dilip Kumar, PARHI, Nirmalya, BARUA, Abhishek et al.: Experimental study of a portable plasma arc cutting system using hybrid RSM-nature inspired optimization technique In: MATERIALS TODAY-PROCEEDINGS : Phagwara vol.50, (2022) p.867-878 ISSN:2214-7853 Doi:10.1016/j.matpr.2021.06.138 [WOS:000753396100004]

ADC006 BOTKOVÁ, Dominika - KLICH, Jiří - BOTKO, František - SIMKULET, Vladimír - FOLDYNA, Josef - KREJČÍ, Lucie - ŠTORKÁN, Zdeněk - KEPIČ, Ján - HATALA, Michal: **Comparison of ultrasonically enhanced pulsating water jet erosion efficiency on mechanical surface treatment on the surface of aluminum alloy and stainless steel** / - 2019. In: The International Journal of Advanced Manufacturing Technology. - Berlin (Nemecko) : Springer International Publishing AG Roč. 103, č. 5-8 (2019), s. 1647-1656 [print, online]. - ISSN 0268-3768 Spôsob prístupu:

[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=2&SID=D65n9aTl1WAH2M47cHW&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=2&SID=D65n9aTl1WAH2M47cHW&page=1&doc=1).

**Ohlasy:**

2019 [01] PORTARO, R., SADEK, J., NG, H.D. On the application of gas detonation-driven water jet for material surface treatment proces In: Manufacturing Letters Vol. 21 (2019), p. 70-74 ISSN: 2213-8463 DB: Scopus

2019 [01] Portaro, Rocco, Sadek, Jad, Ng, Hoi Dick On the application of gas detonation-driven water jet for material surface treatment process In: Manufacturing Letters Roč. 21 (2019), 70-74 [online] ISSN: 2213-8463 (online) DB: Scopus [WOS:000645113200015]

2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3 [WOS:000521789600004]

2021 [01] CUHA, D. et al. Erosion of Titanium and Aluminium Alloys Using Pulsating Water Jet: Effect of Standoff Distance In: Lecture Notes in Mechanical Engineering : WJ 2019 : 6th International Conference on Water Jet - Research, Development, Application : Celadna, 20-22 November, 2019 P. 56-66 (2021) ISSN: 2195-4356 ISBN: 978-303053490-5 DB: Scopus

2021 [01] SVABENSKA, E, et al. Evolution of Microstructure of Silicon Steel After Pulsating Water Jet Treatment In: Lecture Notes in Mechanical Engineering : WJ 2019 : 6th International Conference on Water Jet - Research, Development, Application : Celadna, 20-22 November, 2019 P. 219-228 (2021) ISSN: 2195-4356 ISBN: 978-303053490-5 DB: Scopus

2021 [01] PEREC, A. et al. Multi-criteria Optimization of the Abrasive Waterjet Cutting Process for the High-Strength and Wear-Resistant Steel Hardox® 500 In: Lecture Notes in Mechanical Engineering P. 145-154 (2021) ISSN: 2195-4356 ISBN: 978-303053490-5 DB: Scopus

2021 [01] Čuha, Dominik et al. Erosion of Titanium and Aluminium Alloys Using Pulsating Water Jet: Effect of Standoff Distance In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications s. 56-66 [online, print] ISBN: 978-3-030-53490-5 DB: Scopus

2021 [01] Švábenská, Eva et al. Evolution of Microstructure of Silicon Steel After Pulsating Water Jet Treatment In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications 219-228 [online, print] ISBN: 978-3-030-53490-5 DB: Scopus

2021 [01] Perec, Andrzej et al. Multi-criteria Optimization of the Abrasive Waterjet Cutting Process for the High-Strength and Wear-Resistant Steel Hardox®500 In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications 145-154 [online, print] ISBN: 978-3-030-53490-5 DB: Scopus

2021 [01] PAVLENKO, Ivan, ZAJAC, Jozef, KHARCHENKO, Nadiia, IVANOV, Vitalii et al.: Estimation of Wear Resistance for Multilayer Coatings Obtained by Nitrogenchroming In: METALS vol.11, no.8 (2021) eISSN:2075-4701 Doi:10.3390/met11081153 [WOS:000689373000001]

2021 [01] AMEGADZIE, M. Y., MOREAU, E. D., CHRISTENSEN, B. et al.: Ultrasonic pulsed waterjet surface peening of an industrial aluminum-based metal matrix composite In: SURFACE & COATINGS TECHNOLOGY vol.426, (2021) ISSN:0257-8972 eISSN:1879-3347 Doi:10.1016/j.surfcoat.2021.127795 [WOS:000710726700022]

2021 [01] PEREC, Andrzej, WATROBSKI, J, SALABUN, W et al.: Multiple Response Optimization of

Abrasive Water Jet Cutting Process using Response Surface Methodology (RSM) In: KNOWLEDGE-BASED AND INTELLIGENT INFORMATION & ENGINEERING SYSTEMS (KSE 2021) : Szczecin vol.192, (2021) p.931-940 ISBN:\*\*\*\*\* ISSN:1877-0509 Doi:10.1016/j.procs.2021.08.096 [WOS:000720289000095]

ADC007 BOTKOVÁ, Dominika - BOTKO, František - KLICH, Jiří - SITEK, Libor - HVIZDOŠ, Pavol - FIDES, Martin - ČEP, Robert: **Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L** / - 2020. In: The International Journal of Advanced Manufacturing Technology. - Berlin (Nemecko) : Springer International Publishing AG Roč. 107, č. 5-6 (2020), s. 2719-2730 [print, online]. - ISSN 0268-3768 Spôsob prístupu: <https://doi.org/0.1007/s00170-020-05191-3>.

Kvartil: WOS:Q2,SCO:Q1 | Impakt faktor: 2.496  
Databázy: WOS: áno CCC: áno SCOPUS: áno

#### Ohlasy:

2021 [01] LLANTO, Jennifer Milaor, VAFADAR, Ana, AAMIR, Muhammad et al.: Analysis and Optimization of Process Parameters in Abrasive Waterjet Contour Cutting of AISI 304L In: METALS vol.11, no.9 (2021) eISSN:2075-4701 Doi:10.3390/met11091362 [WOS:000701424400001]

ADC008 MITALOVÁ, Zuzana - MITAL', Dušan - BOTKO, František - LITECKÁ, Juliána - ZAJAC, Jozef - HARNIČAROVÁ, Marta - VALÍČEK, Jan: **Identification of Topography of Surfaces Created by Turning Biomaterials with Optical Profilometry** / - 2020. In: BioResources. - Raleigh (USA) : NC State University Roč. 15, č. 2 (2020), s. 2483-2494 [online]. - ISSN 1930-2126 (online) Spôsob prístupu: <https://doi.org/10.15376/biores.15.2.2483-2494>.

Kvartil: WOS:Q2,SCO:Q3 | Impakt faktor: 1.409  
Databázy: WOS: áno CCC: áno SCOPUS: áno

#### Ohlasy:

2020 [01] HATALA, Michal et al. New Trends of Mineral Composite Application in the Production of CNC Machine Tools In: Tem Journal-Technology Education Management Informatics Vol. 9, no. 3 (2020), p. 977-982 ISSN: 2217-8309 DB: WOS [WOS:000565865300020]

ADC009 BOTKO, František - BELLA, Peter - HATALA, Michal - BERAXA, Pavol - BOTKOVÁ, Dominika - ŠUŤÁK, Dušan: **Effect of friction coefficient change on internally shaped tubes drawing process using finite elements method** / - 2020. In: Materialwissenschaft und Werkstofftechnik = Materials Science and Engineering Technology. - Weinheim (Nemecko) : Wiley-VCH Roč. 51, č. 7 (2020), s. 948-956 [print, online]. - ISSN 0933-5137 Spôsob prístupu: <https://doi.org/10.1002/mawe.201900177>.

Kvartil: WOS:Q4,SCO:Q3 | Impakt faktor: 0.854  
Databázy: WOS: áno CCC: áno SCOPUS: áno

#### Ohlasy:

2020 [01] Belarhzal, Samya, Boudi, El Mostapha Effect of profile shift factor on contact stress and natural frequencies of spur gear In: International Review on Modelling and Simulations = IREMOS Roč. 13, č. 6 (2020), 400-409 [print] ISSN: 1974-9821 DB: Scopus

ADC010 PETRUŠKA, Ondrej - ZAJAC, Jozef - DUPLÁKOVÁ, Darina - SIMKULET, Vladimír - DUPLÁK, Ján - BOTKO, František: **Effect of glass and carbon fibres on the compressive and flexural strength of the polymer concrete composite** / - 2020. In: Advances in Production Engineering & Management. Roč. 15, č. 4 (2020), s. 441-452 [print]. - ISSN 1854-6250 Spôsob prístupu: <https://doi.org/10.14743/apem2020.4.377>.

Kvartil: WOS:Q2,SCO:Q1 | Impakt faktor: 2.347

Databázy: WOS: áno CCC: áno SCOPUS: áno

**Ohlasy:**

2022 [01] BARON, Petr, KOCISKO, Marek, FRANAS, Eduard: COMPUTER ANALYSIS OF THE TECHNOLOGICAL PROCESS OF A SELECTED COMPONENT'S PLASTIC INJECTION In: MM SCIENCE JOURNAL vol.2022, (2022) p.5575-5581 ISSN:1803-1269 eISSN:1805-0476  
Doi:10.17973/MMSJ.2022\_03\_2022004  
[WOS:000767282800001]

ADC011 ŠUŤÁK, Dušan - HATALA, Michal - MITAĽ, Dušan - DUPLÁKOVÁ, Darina - BOTKO, František: **Comprehensive analysis of cold formed tube in drawing process using simulation** / - 2021. In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 20, č. 1 (2021), s. 99-110 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/IJSIMM20-1-547>.

Kvartil: WOS:Q3,SCO:Q2 | Impakt faktor: 2.492

Databázy: WOS: áno CCC: áno SCOPUS: áno

**ADE - Vedecké práce v zahraničných nekarentovaných časopisoch(7)**

ADE001 ZAJAC, Jozef - BERAXA, Pavol - MICHALIK, Peter - BOTKO, František - POLLÁK, Martin: **Simulation of Weld Elbows Hot Forming Process** / - 2016. In: International Journal of Modeling and Optimization. Vol. 6, no. 2 (2016), p. 77-80. - ISSN 2010-3697

**Ohlasy:**

2016 [04] DUPLÁKOVÁ, Darina et al. Simulation as ergonomic tool for evaluation of illumination quality in engineering In: Acta Simulatio Roč. 2, č. 3 (2016), s. 1-7 ISSN: 1339-9640

2018 [03] DUPLÁKOVÁ, Darina et al. Application of Simulation Software in the Production Process of Milled Parts In: SAR Journal Vol. 1, no. 2 (2018), p. 42-46 ISSN: 2619 -9955

2017 [01] DUPLÁKOVÁ, Darina et al. Software support of modelling using ergonomic tools in engineering In: TEM Journal-Technology Education Management Informatics Vol. 6, no. 3 (2017), p. 567-571 ISSN: 2217 -8309 DB: WOS

2018 [01] DUPLÁKOVÁ, D. et al. Determination of optimal production process using scheduling and simulation software In: International Journal of Simulation Modelling Vol. 17, no. 4 (2018), p. 609-622 ISSN: 1726-4529 DB: WOS

ADE002 MIČKO, Miroslav - BOTKO, František - HATALA, Michal - RADCHENKO, Svetlana - RADIČ, Pavol: **Prediction model of surface quality after plasma cutting of steel S355** / - 2016. In: Scientific Bulletin Series C : Fascicle Mechanics, Tribology, Machine Manufacturing Technology. - Baia Mare : North University Center of Baia Mare, 2016 P. 63-66. - ISSN 1224-3264 Spôsob prístupu: <http://search.proquest.com/docview/1864467837/D475436A274F4175PQ/15?accountid=49346>.

ADE003 MITAĽ, Dušan - BOTKO, František - HATALA, Michal - BERNÁT, Andrej - BREZÍKOVÁ, Katarína: **Unconventional Methods of Measuring Residual Stress** / - 2016. In: Scientific Bulletin Series C : Fascicle Mechanics, Tribology, Machine Manufacturing Technology. - Baia Mare : North University Center of Baia Mare, 2016 P. 71-74. - ISSN 1224-3264 Spôsob prístupu: <http://search.proquest.com/docview/1864526371/D475436A274F4175PQ/17?accountid=49>

346.

ADE004 BOTKO, František - HATALA, Michal - DUPLÁK, Ján - OLEXA, Igor - BIRČÁK, Jaroslav: **Study of high feed cutting efficiency of aluminum alloy AW - Alzn5,5mgcu / - 2018.** In: SAR Journal. Vol. 1, no. 2 (2018), p. 53-56. - ISSN 2619-9955

**Ohlasy:**

2018 [01] KURUC, M. et al. Comparison of high feed machining with conventional milling in terms of dimension accuracy and productivity In: DAAAM 2018 : 29 th International symposium on intelligent manufacturing and automation : Zadar, 24-27 October, 2018 Vol. 29, no. 1 (2018), p. 0426-0434 ISSN: 1726-9679 ISBN: 978-3-902734-20-4 DB: Scopus

2018 [01] Kuruc, Marcel et al. Comparison of high feed machining with conventional milling in terms of dimension accuracy and productivity In: Proceedings of the 29th DAAAM International Symposium : Intelligent Manufacturing and Automation s. 1-9 [online] ISSN: 2304-1382 ISBN: 978-3-902734-20-4 DB: Scopus

ADE005 PETRUŠKA, Ondrej - ZAJAC, Jozef - BOTKO, František - MITAL', Dušan - KNAPČÍKOVÁ, Lucia: **Polymer Concrete Composite - Preparation of Testing Samples / - 2018.** In: SAR Journal - Science and Research. Roč. 1, č. 4 (2018), s. 135-139 [print]. - ISSN 2619-9955

ADE006 MITAL'OVÁ, Zuzana - MITAL', Dušan - BOTKO, František - HATALA, Michal - LITECKÁ, Juliána - HARNIČÁROVÁ, Marta - OHLÍDAL, Miroslav: **Rozbor topografie povrchu kompozitného materiálu na báze WPC aplikáciou optickej bezkontaktnéj metódy / - 2018.** In: Jemná mechanika a optika : Fine mechanics and optics : vedecko-technický časopis. - Praha (Česko) : Fyzikální ústav AV ČR Roč. 63, č. 10 (2018), s. 287-290 [print]. - ISSN 0447-6441

ADE007 BOTKO, František - HATALA, Michal - BOTKOVÁ, Dominika - RADCHENKO, Svetlana: **Mechanical analysis of the rotating drawing mandrel with selected bearings configuration / - 2020.** In: STED Journal : Journal of Social and Technological Development. - Banja Luka (Bosna a Hercegovina) : University PIM, Banja Luka Roč. 2, č. 2 (2020), s. 9-12 . - ISSN 2637-2150 Spôsob prístupu: <https://doi.org/10.7251/STED0220009B>.

**ADF - Vedecké práce v domácich nekarentovaných časopisoch(1)**

ADF001 BOTKO, František - HATALA, Michal - BERAXA, Pavol - DUPLÁK, Ján - RADCHENKO, Svetlana - BOTKOVÁ, Dominika: **Návrh nástrojov a proces výroby drážkovaných rúr / - 2019.** In: Strojárstvo/Strojírnenství = Engineering Magazine. - Žilina (Slovensko) : Media/ST Roč. 23, č. 2 (2019), s. 40-41 [print]. - ISSN 1335-2938

**ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS(15)**

ADM001 DOBRÁNSKY, Jozef - BOTKO, František - VOJNOVÁ, Eva: **Monitoring of production quality for plastic component / - 2016.** In: MM Science Journal. Vol. 2016, no. September (2016), p. 927-930. - ISSN 1803-1269

ADM002 DOBRÁNSKY, Jozef - BOTKO, František - VOJNOVÁ, Eva: **Heat transfer monitoring of injection mold / - 2016.** In: MM Science Journal. Vol. 2016, no. October (2016), p. 1073-1076. - ISSN 1803-1269

**Ohlasy:**



2017 [01] DULEBOVÁ L. et al. Analysis of the mechanical properties change of PA6/MMT nanocomposite system after ageing In: Key Engineering Materials Vol. 756 (2017), p. 52-59 ISSN: 1013-9826 DB: Scopus

ADM003 BREZÍKOVÁ, Katarína - HATALA, Michal - DUPLÁK, Ján - MITAL', Dušan - RADCHENKO, Svetlana - BOTKO, František: **Proposal of measuring fixture for serial production** / - 2016. In: MM Science Journal. DOI: 10.17973/MMSJ.2016\_10\_201658 (2016), p. 1082-1085. - ISSN 1803-1269

**Ohlasy:**

2018 [01] BALARA, Milan - DUPLAKOVA, Darina - MATISKOVA, Darina Application of a signal averaging device in robotics In: Measurement Vol. 115 (2018), p. 125-132 ISSN: 0263-2241 DB: WOS

2017 [3] KOČIŠKO, Marek et al. Verification of static strain and deformation of industrial robot actuator in ANSYS environment In: MATEC Web of Conferences : MTeM 2017 - AMaTUC : Modern Technologies in Manufacturing : volume 137 : Cluj-Napoca, 12-13 October, 2017 P. 1-8 ISSN: 2261-236X ISBN: 978-2-7598-9027-9

2018 [01] DOBRÁNSKY, J., STEJSKAL, T., SVETLÍK, J. Analysis of Mean Reversal Value of on Axis of Linear Guide Depending on the Load In: INES 2018 : IEEE 22nd International Conference on Intelligent Engineering Systems : Las Palmas de Gran Canaria, 21-23 June, 2018 P. 000163-000166 ISBN: 978-153861122-7 DB: Scopus

2019 [01] IVANOV, V. Process-oriented approach to fixture design In: Lecture Notes in Mechanical Engineering p. 42-50 ISSN: 2195-4356 DB: Scopus

2019 [01] PITEL, J., MATISKOVÁ, D., MARASOVÁ, D. A new approach to evaluation of the material cutting using the artificial neural networks In: TEM Journal Vol. 8, no. 2 (2019), p. 325-332 ISSN: 2217-8309 DB: Scopus

ADM004 BOTKO, František - HATALA, Michal - BERAXA, Pavol - DUPLÁK, Ján - ZAJAC, Ján: **Determination of CVD coating thickness for shaped surface tool** / - 2018. In: TEM Journal. Vol. 7, no. 2 (2018), p. 428-432. - ISSN 2217-8309

**Ohlasy:**

2019 [2] ALBERT, Marian et al. Positive Environmental and Economic Impact of Polyvinyl Butyral Waste Material after Recycled Windscreen In: Acta Montanistica Slovaca Roč. 24, č. 2 (2019), s. 120-128 ISSN: 1335-1788 DB: WOS  
[WOS:000488588400004]

2019 [01] LEHOCKÁ, D. et al. Analysis of the Pulsating Water Jet Maximum Erosive Effect on Stainless Steel In: Advances in Manufacturing : Mechanics Engineering : 6th International Scientific Technical Conference : Poznan, Poland : May 19-22, 2019 Vol. 2, no. 4 (2019), p. 233-241 ISSN: 2195-4356 ISBN: 978-3-030-16943-5 DB: WOS  
[WOS:000490712900021]

2019 [01] STRAKA, Luboslav - DITTRICH, Gabriel Influence of Graphite Tool Electrode Shape on TWR and MRR at EDM In: MM Science Journal Vol. 2019, no December (2019), p. 3479-3485 ISSN: 1803-1269 DB: WOS  
[WOS:000532572200014]

2019 [01] Lehocká, Dominika et al. Analysis of the pulsating water jet maximum erosive effect on stainless steel In: Advances in Manufacturing 2 : Volume 4 - Mechanical Engineering s. 233-241 [print, online] ISBN: 978-3-030-16942-8 DB: WOS

2019 [01] Albert, Marián et al. Positive Environmental and Economic Impact of Polyvinyl Butyral Waste Material after Recycled Windscreen In: Acta Montanistica Slovaca Roč. 24, č. 2 (2019), s. 120-128 [print, online] ISSN: 1335-1788 DB: WOS

2019 [01] Straka, Luboslav, Dittrich, Gabriel Influence of graphite tool electrode shape on TWR and MRR at EDM In: MM Science Journal č. December (2019), s. 3479-3485 [print, online] ISSN: 1803-1269 DB: WOS

2021 [01] STRAKA, Luboslav, PITEL, Jan, MICHALIK, Peter: Research of Geometric Accuracy of Circular Holes Machined by Wire EDM Technology In: TEHNICKI VJESNIK-TECHNICAL GAZETTE vol.28, no.5 (2021) p.1532-1538 ISSN:1330-3651 eISSN:1848-6339 Doi:10.17559/TV-20200925142859 [WOS:000686904600014]

2021 [01] STRAKA, Luboslav, KUČHTA, Patrik: DYNAMIC CONTROL OF DISCHARGE ENERGY DURING WEDM FOR THE PURPOSE OF ELIMINATING VIBRATIONS OF THE WIRE TOOL ELECTRODE In: MANAGEMENT SYSTEMS IN PRODUCTION ENGINEERING vol.29, no.4 (2021) p.260-265 ISSN:2299-0461 eISSN:2450-5781 Doi:10.2478/mspe-2021-0032 [WOS:000753841800002]

ADM005 ZAJAC, Jozef - HATALA, Michal - DUPLÁKOVÁ, Darina - BOTKO, František - DUPLÁK, Ján - ŠUŤÁK, Dušan: **Implementation of Computer - Aided Design of Fixture in the Educational Process** / - 2018. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 7, č. 4 (2018), s. 808-812 [print]. - ISSN 2217-8309

ADM006 MITALOVÁ, Zuzana - MITAL, Dušan - BOTKO, František - LITECKÁ, Juliána - HARNIČÁROVÁ, Marta - VALÍČEK, Jan - OHLÍDAL, Miroslav: **Influence of factors on surface topography of wood-based composite material** / - 2018. In: Academic journal of manufacturing engineering. - Temešvár (Rumunsko) : Editura Politehnica Roč. 16, č. 4 (2018), s. 110-114 [print]. - ISSN 1583-7904

ADM007 BOTKO, František - HATALA, Michal - MITALOVÁ, Zuzana - ČEP, Robert - RIMÁR, Miroslav - BERNÁT, Andrej - VÝBOŠTEK, Jaroslav: **Qualitative evaluation of machined surface of aluminum alloy AlCu4Mg1 depend on feed rate** / - 2018. In: Manufacturing Technology. - Ústí nad Labem (Česko) : Univerzita Jana Evangelisty Purkyně v Ústí nad Labem Roč. 18, č. 2 (2018), s. 201-207 [print]. - ISSN 1213-2489 Spôsob prístupu: <https://doi.org/10.21062/ujep/78.2018/a/1213-2489/MT/18/2/201>.

#### Ohlasy:

2018 [01] HAUSNEROVÁ, B., Sanétník, D., PATA, V. Surface properties of powder injection moulded parts related to processing conditions In: Manufacturing Technology Vol. 18, no. 6 (2018), p. 895-899 ISSN: 1213-2489 DB: Scopus

2020 [01] HERMAWAN, Y. et al. Cutting Forces, Chips Formation and Surface Roughness in Rock Cutting Using Negative Rake Angle In: Manufacturing Technology Vol. 20, no. 1 (2020), p. 27-35 ISSN: 1213-2489 DB: Scopus

2019 [01] LIPINSKI, T. Effect of Sr, Ti and B additions as powder and a preliminary alloy with Al on microstructure and tensile strength AlSi9Mg alloy In: Manufacturing Technology Vol. 19, no. 5 (2019), p. 807-812 ISSN: 1213-2489 DB: Scopus

2020 [01] Hermawan, Yuni et al. Cutting forces, chips formation and surface roughness in rock cutting using negative rake angle In: Manufacturing Technology Roč. 20, č. 1 (2020), 27-35 [print, online] ISSN: 1213-2489 DB: Scopus

2018 [01] Hausnerová, Berenika, Sanétník, Daniel, Pata, Vladimír Surface properties of powder injection moulded parts related to processing conditions In: Manufacturing Technology Roč. 18, č. 6 (2018), 895-899 [print, online] ISSN: 1213-2489 DB: Scopus

2019 [01] Lipinski, Tomasz Effect of Sr, Ti and B additions as powder and a preliminary alloy with Al on microstructure and tensile strength AlSi9Mg alloy In: Manufacturing Technology Roč. 19, č. 5 (2019), s. 807-812 [print, online] ISSN: 1213-2489 DB: Scopus

ADM008 HATALA, Michal - DUPLÁK, Ján - DUPLÁKOVÁ, Darina - BOTKO, František: **Effect of Traverse Speed on Surface Roughness Parameters after Laser Cutting of Non-alloy Structural Steel** / - 2019. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 8, č. 2 (2019), s. 402-408 [print]. - ISSN 2217-8309 Spôsob prístupu:  
[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=1&SID=E43vYnun6blAKsjmEIT&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E43vYnun6blAKsjmEIT&page=1&doc=1).

**Ohlasy:**

2020 [01] MILEŞAN, Mihaela et al. Mathematical Modelling Study of Hardox400 Steel Parts' Roughness and Hardness, Cut with CO<sub>2</sub> Laser In: Strojnicki Vestnik-Journal of Mechanical Engineering Vol. 66, no. 2 (2020), p. 127-141 ISSN: 0039-2480 DB: WOS

2020 [01] Mileşan, Mihaela et al. Mathematical modelling study of Hardox400 steel parts' roughness and hardness, cut with CO<sub>2</sub> laser In: Strojnicki vestnik = Journal of Mechanical Engineering Roč. 66, č. 2 (2020), s. 127-141 [online, print] ISSN: 0039-2480 DB: WOS  
[WOS:000513872300005]

2020 [01] MITALOVA, Zuzana, DUPLAKOVA, Darina, MITAL, Dusan et al.: MONITORING OF SURFACE INTEGRITY OF WPC MATERIALS BASE ON EVALUATION SELECTED SURFACE TOPOGRAPHY PARAMETERS In: INTERNATIONAL JOURNAL FOR QUALITY RESEARCH vol.14, no.3 (2020) p.817-827 ISSN:1800-6450 eISSN:1800-7473 Doi:10.24874/IJQR14.03-11  
[WOS:000562287400011]

ADM009 DITTRICH, Gabriel - STRAKA, Ľuboslav - BOTKO, František - DUPLÁK, Ján - BIRČÁK, Jaroslav - ALDAIHAN, Fahad: **Influence of recycled PA6 and PBT plastic material on the bonding strength** / - 2019. In: MM Science Journal. - Prague (Česko) : MM Publishing Roč. 2019, č. October (2019), 3005-3010 [print, online]. - ISSN 1803-1269

**Ohlasy:**

2022 [01] BARON, Petr, KOCISKO, Marek, FRANAS, Eduard: COMPUTER ANALYSIS OF THE TECHNOLOGICAL PROCESS OF A SELECTED COMPONENT'S PLASTIC INJECTION In: MM SCIENCE JOURNAL vol.2022, (2022) p.5575-5581 ISSN:1803-1269 eISSN:1805-0476  
Doi:10.17973/MMSJ.2022\_03\_2022004  
[WOS:000767282800001]

ADM010 GAJDOVČÍK, Peter - BOTKOVÁ, Dominika - DUPLÁKOVÁ, Darina - BOTKO, František - SITEK, Libor: **Design of Printed Circuit Board Production using Water Jet Technology** / - 2019. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 8, č. 4 (2019), s. 1313-1318 [print, online]. - ISSN 2217-8309

ADM011 ŠUŤÁK, Dušan - HATALA, Michal - DILÝOVÁ, Michaela - BOTKO, František - POKLEMBA, Róbert: **Reduction of Tubes Diameter by the Die and Mandrel in Simulation Software** / - 2020. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 9, č. 1 (2020), s. 380-385 [print, online]. - ISSN 2217-8309 Spôsob prístupu:  
<https://doi.org/10.18421/TEM91-52>.

**Ohlasy:**

2021 [01] SUTAK, D., HATALA, M., MITAL, D., DUPLAKOVA, D. et al.: COMPREHENSIVE ANALYSIS OF COLD FORMED TUBE IN DRAWING PROCESS USING SIMULATION In: INTERNATIONAL JOURNAL OF SIMULATION MODELLING vol.20, no.1 (2021) p.99-110 ISSN:1726-4529 eISSN:1996-8566  
Doi:10.2507/IJSIMM20-1-547  
[WOS:000627639100009]

ADM012 BOTKOVÁ, Dominika - BOTKO, František - MITALOVÁ, Zuzana - SIMKULET, Vladimír - ŠOMŠÁK, Maroš: **Evaluation of Stainless Steel AISI 316Ti Corner Joints Quality Produced by Tungsten Inert Gas Welding** / - 2020. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 9, č. 4 (2020), s. 1475-1479 [print, online]. - ISSN 2217-8309 Spôsob prístupu: <https://doi.org/10.18421/TEM94-20>.

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno

ADM013 VANDŽURA, Radoslav - SIMKULET, Vladimír - HATALA, Michal - DUPLÁKOVÁ, Darina - BOTKO, František: **Evaluation of the Yield Strength of a Carbon Composite Material Prepared by Wet Lamination and Vacuum Bag Molding** / - 2021. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 10, č. 3 (2021), s. 1045-1050 [print, online]. - ISSN 2217-8309 Spôsob prístupu: <https://doi.org/10.1842/TEM103-06>.

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno

ADM014 SIMKULET, Vladimír - DUPLÁKOVÁ, Darina - KOVALČÍKOVÁ, Alexandra - HATALA, Michal - BOTKO, František - MITALOVÁ, Zuzana - VANDŽURA, Radoslav: **Evaluation of tribological characteristics of material prepared by dmls technology** / - 2021. In: MM Science Journal. - Praha (Česko) : MM Publishing Roč. 2021-October (2021), s. 4941-4945 [print, online]. - ISSN 1803-1269 Spôsob prístupu: [https://doi.org/10.17973/MMSJ.2021\\_10\\_2021039](https://doi.org/10.17973/MMSJ.2021_10_2021039).

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno

ADM015 ŽIDZIK, Adrián - MITALOVÁ, Zuzana - BOTKO, František - SIMKULET, Vladimír - BOTKOVÁ, Dominika - MITAL, Dušan: **Evaluation of Mechanical Properties of Damascus Steel** / - 2021. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 10, č. 4 (2021), s. 1616-1620 [print, online]. - ISSN 2217-8309 Spôsob prístupu: <https://doi.org/10.18421/TEM104-17>.

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno

### **AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách(3)**

AEC001 MIČKO, Miroslav - DUPLÁK, Ján - ZAJAC, Jozef - HATALA, Michal - KACZMARSKA, Bozena - BOTKO, František - ALOWA, Mohammed: **Study of welding parameters effect on the weld quality for structural steel S235 J0** / - 2016. In: Key Engineering Materials vol. 669 : Operation and Diagnostics of Machines and Production Systems Operational States 3. - Switzerland : TTP, 2016 P. 79-86. - ISBN 978-3-03835-629-5 - ISSN 1013-9826

#### **Ohlasy:**

2016 [3] ZAJAC, J. et al. Simulation of weld elbows hot forming process In: International Journal of Modeling and Optimization Vol. 6, no. 2 (2016), p. 77-80 ISSN: 2010-3697

AEC002 DUPLÁK, Ján - HATALA, Michal - BOTKO, František - KORMOŠ, Miroslav: **Analysis of cutting tools durability importance in turning process of steel C60** / - 2016. In: Key Engineering Materials vol. 669 : Operation and Diagnostics of Machines and Production Systems Operational States 3. - Switzerland : TTP, 2016 P. 319-326. - ISBN 978-3-03835-629-5 - ISSN 1013-9826

**Ohlasy:**

2016 [01] HAJNYS, Jiri et al. Impact of Cutting Tool Geometry on the Dynamic Load of System in the Machining Process of Nickel Alloy 625 In: Advances in Science and Technology-Research Journal Vol. 10, no. 32 (2016), p. 24-31 ISSN: 2299-8624 DB: WOS

2018 [01] CARACH, J. et al. Surface roughness of graphite and aluminium alloy after hydro-abrasive machining In: Lecture Notes in Mechanical Engineering : MANUFACTURING 2017 : 5th International Scientific-Technical Conference : Poznan, 24-23 October, 2017 P. 805-813 ISBN: 978-3-319-68619-6 DB: WOS

2018 [01] LEHOCKA, Dominika - SIMKULET, Vladimír - LEGUTKO, Stanislaw Assessment of deformation characteristics on CW004A copper influenced by acoustically enhanced water jet In: Advances in Manufacturing : MANUFACTURING 2017 : 5th International Scientific-Technical Conference, Poznań, 24-26 October, 2017 P. 717-724 ISSN: 2195-4356 ISBN: 978-3-319-68619-6 DB: WOS

AEC003 MITALOVÁ, Zuzana - MITAL, Dušan - BOTKO, František: **Measuring of roughness and roundness parameters after turning of composite material with natural reinforcement** / - 2016. In: Science report : Project CIII - PL-0007 : Research on modern systems for manufacture and measurement of components of machines and devices. - Kielce : Wydawnictwo Politechniki Świętokrzyskiej, 2016 P. 49-58. - ISBN 978-83-63792-15-2

**AFC - Publikované príspevky na zahraničných vedeckých konferenciách(10)**

AFC001 FEDORKO, Gabriel - MOLNÁR, Vierošlav - MICHALIK, Peter - ZAJAC, Jozef - HATALA, Michal - BOTKO, František - MIČKO, Miroslav: **Analýza napätovo-deformačných stavov v dopravných pásoch hadicových dopravníkov** / - 2015. In: TechSoft Engineering ANSYS 2015. - Praha : TechSoft, 2015 P. 1-6. - ISBN 978-80-905040-4-2

AFC002 ZAJAC, Jozef - MITAL, Dušan - BOTKO, František - ČIŽMÁR, Peter: **Complex accreditation of research activities at universities in Slovakia** / - 2015. In: Advances in Social and Behavioral Sciences : SSR-SSI 2015. - Singapore : Singapore management and sports science institute, 2015 P. 36-39. - ISBN 978-981-09-6304-0 - ISSN 2339-5133 Spôsob prístupu:  
[https://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=5&SID=X1wpvTTra7atyNAgeMU&page=1&doc=1](https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=X1wpvTTra7atyNAgeMU&page=1&doc=1).

AFC003 ZAJAC, Jozef - HATALA, Michal - MITALOVÁ, Zuzana - MROŠKOVÁ, Lenka - BOTKO, František: **Quality of education in research and educational institutions** / - 2015. In: Advances in Social and Behavioral Sciences : SSR-SSI 2015. - Singapore : Singapore management and sports science institute, 2015 P. 40-43. - ISBN 978-981-09-6304-0 - ISSN 2339-5133 Spôsob prístupu:  
[https://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=5&SID=X1wpvTTra7atyNAgeMU&page=1&doc=2](https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=X1wpvTTra7atyNAgeMU&page=1&doc=2).

AFC004 TÖRÖK, Jozef - ZAJAC, Jozef - BOTKO, František - MITAL, Dušan - MROŠKOVÁ, Lenka: **Virtual reality in Educational Process** / - 2017. In: EESD 2017. - Lancaster : DEStech Publications, 2017 P. 277-281. - ISBN 978-1-60595-452-3 Spôsob prístupu:  
<http://dpi-proceedings.com/index.php/dteees/article/view/12015>.

AFC005 BOTKO, František - ZAJAC, Jozef - CZÁN, Andrej - RADCHENKO, Svetlana - BOTKOVÁ, Dominika - DUPLÁK, Ján: **Influence of Residual Stress Induced in Steel Material on Eddy Currents Response Parameters** / - 2019. In: Advances in Manufacturing II : Volume 4 - Mechanical Engineering. - Cham (Švajčiarsko) : Springer Nature s. 551-560 [print, online]. - ISBN 978-3-030-16942-8 Spôsob prístupu: [http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=3&SID=E6NQtXk13wHmZVgCpUt&page=1&doc=6&cacheurlFromRightClick=no](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=3&SID=E6NQtXk13wHmZVgCpUt&page=1&doc=6&cacheurlFromRightClick=no).

**Ohlasy:**

2020 [01] Bai, Peigen et al. Joint effect of residual stress and plastic deformation on pulsed eddy current response signals in 304 austenitic stainless steel In: International Journal of Applied Electromagnetics and Mechanics Roč. 63, č. 1 (2020), 19-30 [print] ISSN: 1383-5416 DB: WOS [WOS:000536681200002]

2020 [01] STRAKA, Luboslav - DITTRICH, Gabriel Mechanism of Material Removal During Die-Sinking EDM of Tool In: MM Science Journal Vol. 2020 (2020), p. 3955-3959 ISSN: 1803-1269 DB: WOS

2020 [01] ELBAKIAN, Anri et al. Reasons for the formation of non-fibrous inclusions when preparing basalt fibers by the duplex method In: Materials Vol. 13, no. 21 (2020), art no. 5033 ISSN: 1996-1944 DB: WOS [WOS:000589262600001]

2020 [01] Straka, Luboslav, Dittrich, Gabriel Mechanism of material removal during die-sinking EDM of tool steel EN 90MnCrV8 In: MM Science Journal č. June (2020), s. 3955-3959 [print, online] ISSN: 1803-1269 DB: WOS [WOS:000544190600015]

2020 [01] Elbakian, Anri et al. Reasons for the formation of non-fibrous inclusions when preparing basalt fibers by the duplex method In: Materials Roč. 13, č. 3 (2020), s. [1-15] [online] ISSN: 1996-1944 (online) DB: WOS

2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3 [WOS:000521789600004]

2020 [01] BOTKOVA, Dominika, BOTKO, Frantisek, MITALOVA, Zuzana et al.: Evaluation of Stainless Steel AISI 316Ti Corner Joints Quality Produced by Tungsten Inert Gas Welding In: TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS vol.9, no.4 (2020) p.1475-1479 ISSN:2217-8309 eISSN:2217-8333 Doi:10.18421/TEM94-20 [WOS:000596297300020]

AFC006 DUPLÁKOVÁ, Darina - HATALA, Michal - KNEŽO, Dušan - BOTKO, František - RADIČ, Pavol - ŠUŤÁK, Dušan: **Comparison of the Weld Quality Created by Metal Active Gas and Shielded Metal Arc Welding** / - 2019. In: Advances in Manufacturing II : Volume 4 - Mechanical Engineering. - Cham (Švajčiarsko) : Springer Nature s. 242-256 [print, online]. - ISBN 978-3-030-16942-8

AFC007 DILÝOVÁ, Michaela - HATALA, Michal - RADCHENKO, Svetlana - BOTKO, František - MITALOVÁ, Zuzana: **Optimization of parameters for measurement of the tribological properties of coating for machine parts** / - 2019. In: International Conference on Social and Technological Development = Medunarodna konferencija o društvenom i tehnološkom razvoju : Proceedings. - Banja Luka (Srbsko) : University PIM, Banja Luka s. 357-361 . - ISBN 978-99955-40-44-9

AFC008 HATALA, Michal - BOTKO, František - PETERKA, Jozef - BELLA, Peter - RADIČ, Pavol: **Evaluation of strain in cold drawing of tubes with internally shaped surface** / - 2020. In: International conference on Nanomaterials and Biomaterials. - Amsterdam (Holandsko) : Elsevier s. 287-292 [online]. - ISSN 2214-7853

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: áno CCC: nie SCOPUS: áno

#### Ohlasy:

2020 [01] Okulov, R. A., Semenova, N. V. Simulating the Faceted Tube Drawing In: International Russian Conference on Materials Science and Metallurgical Technology 2020 DB: Scopus

2020 [01] SENTRYAKOV, Kirin, PETERKA, Jozef, SMIRNOV, Vitalii et al.: Modeling of Boring Mandrel Working Process with Vibration Damper In: MATERIALS vol.13, no.8 (2020) eISSN:1996-1944

Doi:10.3390/ma13081931

[WOS:000531829000135]

2021 [01] Okulov, R. A., Semenova, N. V. Modeling the Drawing of Square-Cross-Section Pipes/Tubes Made from Various Materials In: Metallurgist = Metallurg Roč. 65 (2021), s. 571-577

[print] ISSN: 0026-0894 DB: WOS

[WOS:000701381600008]

2022 [01] Li, Wei et al. Numerical and experimental investigation on precision forming of ribbed tube by cold drawing process In: Archives of Civil and Mechanical Engineering Roč. 22, č. 3 (2022)[print] ISSN: 1644-9665 DB: WOS

AFC009 ZAJAC, Jozef - HATALA, Michal - RADCHENKO, Svetlana - DUPLÁKOVÁ, Darina - BOTKO, František: **Chemical Management in Automotive and Mass Industry** / - 2020. In: 4th EAI International Conference on Management of Manufacturing Systems. - Cham (Švajčiarsko) : Springer Nature s. 161-174 [print, online]. - ISBN 978-3-030-34271-5 Spôsob prístupu: [https://doi.org/10.1007/978-3-030-34272-2\\_15](https://doi.org/10.1007/978-3-030-34272-2_15).

AFC010 BOTKO, František - HLAVÁČEK, Petr - BOTKOVÁ, Dominika - FOLDYNA, Vladimír - HATALA, Michal - SIMKULET, Vladimír: **Effect of abrasive water jet machining on the geometry of shapes in selected tool steels** / - 2021. In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications. - Cham (Švajčiarsko) : Springer Nature s. 49-55 [online, print]. - ISBN 978-3-030-53490-5 Spôsob prístupu: [https://doi.org/10.1007/978-3-030-53491-2\\_5](https://doi.org/10.1007/978-3-030-53491-2_5).

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: áno

#### AFD - Publikované príspevky na domácich vedeckých konferenciách(17)

AFD001 BOTKO, František - HATALA, Michal - KORMOŠ, Miroslav - UNGUREANU, Nicolae - ŠOLTÉS, Peter: **Using Edgcam for creating CNC programs in education process** / - 2015. In: SAMI 2015. - Danvers : IEEE, 2015 S. 255-259. - ISBN 978-1-4799-8220-2

#### Ohlasy:

2016 [01] OSADCHIY, I. et al. Development of integrated technology of FRP gear manufacturin In: Manufacturing Technology Vol. 16, no. 3 (2016), p. 574-578 ISSN: 1213-2489 DB: Scopus

2017 [01] IVANOV, Vitalii et al. Numerical simulation of the system "fixture-workpiece" for lever machining In: International Journal of Advanced Manufacturing Technology Vol. 91, no. 1-4 (2017), p. 79-90 ISSN: 0268-3768 DB: DCI

2017 [01] IVANOV, Vitalii, MITAL, Dusan, KARPUS, Vladyslav et al.: Numerical simulation of the system "fixture-workpiece" for lever machining In: INTERNATIONAL JOURNAL OF ADVANCED

MANUFACTURING TECHNOLOGY vol.91, no.1-4 (2017) p.79-90 ISSN:0268-3768 eISSN:1433-3015  
Doi:10.1007/s00170-016-9701-2  
[WOS:000402260300008]

2018 [01] TELIŠKOVÁ, Monika et al. Non-Destructive Diagnostics of Hard-to-Reach Places by Spatial Digitization In: TEM Journal-Technology Education Management Informatics Vol. 7, no. 3 (2018), p. 612-616 ISSN: 2217-8333 DB: WOS  
[WOS:000442699500018]

2018 [01] LEHOCKA, D., SIMKULET, V., LEGUTKO, S, Assessment of deformation characteristics on CW004A copper influenced by acoustically enhanced water jet In: Lecture Notes in Mechanical Engineering : MANUFACTURING 2017 : 5th International Scientific-Technical Conference on Advances in Manufacturing : Poznan, 24-26 October, 2017 No. 201519 (2018), p. 717-724 ISSN: 2195-4356 DB: Scopus  
[WOS:000441196700069]

2019 [2] LEHOCKA, D. et al. Evaluation of Possibility of AISI 304 Stainless Steel Mechanical Surface Treatment with Ultrasonically Enhanced Pulsating Water Jet In: Advances Manufacturing Engineering and Materials : ICMEM 2018 : Lecture Notes in Mechanical Engineering : Novy Smokovec, Slovakia : Jun 18-22, 2018 P. 163-172 ISSN: 2195-4356 ISBN: 978-3-319-999353-9 DB: WOS  
[WOS:000462541600018]

2020 [01] STANCEKOVA, D. et al. Milling of technical ceramics ROCAR SiSiC In: Manufacturing Technology Vol. 20, no. 2 (2020), p. 250-256 ISSN: 1213-2489 DB: Scopus

2020 [01] ZAJAC, Jozef et al. Hardness Testing of Polymer Concrete Castings by Schmidt Hammer In: Materials Today-Proceedings : ICNB 2018 : 2nd International Conference on Nanomaterials and Biomaterials : Barcelona, 10-12 December, 2018 Vol. 22 (2020), p. 293-299 ISSN: 2214-7853 DB: WOS  
[WOS:000514852200023]

AFD002 BOTKOVÁ, Dominika - KLICH, Jiří - FOLDYNA, Josef - HLOCH, Sergej - HVIZDOŠ, Pavol - FIDES, Martin - BOTKO, František - CÁRACH, Ján: **Surface integrity evaluation of brass CW614N after impact of acoustically excited pulsating water jet** / - 2016. In: Procedia Engineering : ICMEN 2016. - S.l. : Elsevier, 2016 S. 236-244. - ISSN 1877-7058

#### Ohlasy:

2017 [01] POPAN, I.A., CONTIU, G., CAMPBELL, I. Investigation on standoff distance influence on kerf characteristics in abrasive water jet cutting of composite materials In: MATEC Web of Conferences : MTem - AMaTUC 2017 : 13th International Conference on Modern Technologies in Manufacturing : Cluj-Napoca, 12-13 October, 2017 Vol. 137 (2017), art. number 01009 ISSN: 2261-236X ISBN: 978-275989027-9 DB: Scopus

2017 [01] LEHOCKA, D., KLICHOVA, D., FOLDYNA, J. et al.: Comparison of the influence of acoustically enhanced pulsating water jet on selected surface integrity characteristics of CW004A copper and CW614N brass In: MEASUREMENT vol.110, (2017) p.230-238 ISSN:0263-2241 eISSN:1873-412X Doi:10.1016/j.measurement.2017.07.005  
[WOS:000409151400025]

2018 [01] LEHOCKA, D., KLICH, J., BOTKO, F. et al.: Pulsating water jet erosion effect on a brass flat solid surface In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.97, no.1-4 (2018) p.1099-1112 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-018-1882-4  
[WOS:000435594100084]

2018 [01] LEHOCKA, Dominika, SIMKULET, Vladimir, LEGUTKO, Stanislaw et al.: Assessment of Deformation Characteristics on CW004A Copper Influenced by Acoustically Enhanced Water Jet In: ADVANCES IN MANUFACTURING (MANUFACTURING 2017) : Poznan (2018) p.717-724 ISBN:978-3-319-68619-6 ISSN:2195-4356 Doi:10.1007/978-3-319-68619-6\_69  
[WOS:000441196700069]



- 2018 [01] HLOCH, Sergej, SRIVASTAVA, Madhulika, KROLCZYK, Jolanta B. et al.: Strengthening Effect after Disintegration of Stainless Steel Using Pulsating Water Jet In: TEHNICKI VJESNIK- TECHNICAL GAZETTE vol.25, no.4 (2018) p.1075-1079 ISSN:1330-3651 eISSN:1848-6339 Doi:10.17559/TV-20170327134630 [WOS:000442273000018]
- 2019 [01] LIU, Xiaochu et al. Waterjet machining and research developments: a review In: International Journal of Advanced Manufacturing Technology Vol. 102, no. 5-8 (2019), p. 1257-1335 ISSN: 0268-3768 DB: WOS [WOS:000469002200019]
- 2019 [01] KLICHOVA, Dagmar, KLICH, Jiri, ZLAMAL, Tomas et al.: The Use of Areal Parameters for the Analysis of the Surface Machined Using the Abrasive Waterjet Technology In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.36-44 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_5 [WOS:000462541600005]
- 2019 [01] KLICH, Jiri, KLICHOVA, Dagmar, SOUCEK, Kamil et al.: Comparison of Non-destructive Sensing Methods on Surface Created by Waterjet Technology In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.114-123 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_13 [WOS:000462541600013]
- 2019 [01] LEHOCKA, Dominika, SIMKULET, Vladimir, KLICH, Jiri et al.: Evaluation of Possibility of AISI 304 Stainless Steel Mechanical Surface Treatment with Ultrasonically Enhanced Pulsating Water Jet In: ADVANCES IN MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2018 : Novy Smokovec (2019) p.163-172 ISBN:978-3-319-99353-9 ISSN:2195-4356 eISSN:2195-4364 Doi:10.1007/978-3-319-99353-9\_18 [WOS:000462541600018]
- 2019 [01] LEHOCKA, Dominika, KLICH, Jiri, BOTKO, Frantisek et al.: Comparison of ultrasonically enhanced pulsating water jet erosion efficiency on mechanical surface treatment on the surface of aluminum alloy and stainless steel In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.103, no.5-8 (2019) p.1647-1656 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-019-03680-8 [WOS:000476625500001]
- 2019 [01] LEHOCKA, Dominika, KLICH, Jiri, PITEL, Jan et al.: Analysis of the Pulsating Water Jet Maximum Erosive Effect on Stainless Steel In: ADVANCES IN MANUFACTURING II, VOL 4 - MECHANICAL ENGINEERING : Poznan (2019) p.233-241 ISBN:978-3-030-16943-5 ISSN:2195-4356 Doi:10.1007/978-3-030-16943-5\_21 [WOS:000490712900021]
- 2019 [01] NAG, Akash, HLOCH, Sergej, CUHA, Dominik et al.: Acoustic chamber length performance analysis in ultrasonic pulsating water jet erosion of ductile material In: JOURNAL OF MANUFACTURING PROCESSES vol.47, (2019) p.347-356 ISSN:1526-6125 eISSN:2212-4616 Doi:10.1016/j.jmapro.2019.10.008 [WOS:000498668600033]
- 2020 [3] ABDELRAHMAN, Abouzaid The Effect of machining parameters of thin brass sheets using Abrasive Water Jetting technology on optimizing the cutting quality of products surfaces In: International Design Journal Vol. 10, no. 2 (2020), p. 151-158 ISSN: 2090-9632
- 2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3 [WOS:000521789600004]
- 2022 [01] HLOCH, Sergej, SOUCEK, Kamil, SVOBODOVA, Jaroslava et al.: Subsurface microtunneling

in ductile material caused by multiple droplet impingement at subsonic speeds In: WEAR vol.490-491, (2022) ISSN:0043-1648 eISSN:1873-2577 Doi:10.1016/j.wear.2021.204176  
[WOS:000754298000001]

AFD003 CÁRACH, Ján - HLOCH, Sergej - HLAVÁČEK, Petr - GOMBÁR, Miroslav - KLICHOVÁ, Dagmar - BOTKO, František - MITAL, Dušan - BOTKOVÁ, Dominika: **Hydro-abrasive disintegration of alloy Monel K-500 - the influence of technological and abrasive factors on the surface quality** / - 2016. In: Procedia Engineering : ICMEM 2016. - S.l. : Elsevier , 2016 Vol. 149 (2016), p. 17-23. - ISSN 1877-7058

**Ohlasy:**

2017 [01] SRIVASTAVA, A.K. Surface integrity in tangential turning of hybrid MMC A359/B4C/Al2O3 by abrasive waterjet In: Journal of Manufacturing Processes Vol. 28 (2017), p. 11-20 ISSN: 1526-6125 DB: WOS

[WOS:000407982200002]

2018 [01] SRIVASTAVA, A.K. A description of surfaces created on the hybrid MMC by the AWJ cutting technology In: International Journal of Mechanical and Production Engineering Research and Development Vol. 8, no. 6 (2018), p. 715-720 ISSN: 2249-6890 DB: Scopus

2018 [01] CARACH, Jan, HLOCH, Sergej, PETRU, Jana et al.: Hydroabrasive disintegration of rotating Monel K-500 workpiece In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.96, no.1-4 (2018) p.981-1001 ISSN:0268-3768 eISSN:1433-3015

Doi:10.1007/s00170-018-1653-2

[WOS:000428797500078]

2019 [01] LIU, X. et al. Waterjet machining and research developments: a review In: International Journal of Advanced Manufacturing Technology Roč. 102, č. 5-8 (2019), s. 1257-1335 ISSN: 0268-3768 DB: WOS

[WOS:000469002200019]

2019 [01] SRIVASTAVA, A.K. et al. Parametric Study During Abrasive Water Jet Turning of Hybrid Metal Matrix Composite In: Advances in Manufacturing Engineering and Materials : ICMEM 2018 : Lecture Notes in Mechanical Engineering : Novy Smokovec, Slovakia : Jun 18-22, 2018 P. 72-84 ISSN: 2195-4356 ISBN: 978-3-319-99353-9 DB: WOS

[WOS:000462541600009]

2019 [01] UTHAYAKUMAR, M. et al. Performance Study of LaPO4-Y2O3 Composite Fabricated by Sol-Gel Process Using Abrasive Waterjet Machining In: Handbook of Research on green engineering techniques for modern manufacturing : Advances in Mechatronics and Mechanical Engineering P. 143-161 ISSN: 2328-8205 ISBN: 978-1-5225-5446-2 DB: WOS

[WOS:000488754300011]

2019 [01] ARAVINDAN, M. et al. Handbook of Research on Green Engineering Techniques for Modern Manufacturing Foreword In: Handbook of Research on green engineering techniques for modern manufacturing : Advances in Mechatronics and Mechanical Engineering ISSN: 2328-823X ISBN: 978-1-5225-5446-2 DB: WOS

[WOS:000488754300001]

2019 [01] LIU, Xiaochu, LIANG, Zhongwei, WEN, Guilin et al.: Waterjet machining and research developments: a review (vol 102, pg 1257, 2019) In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.102, no.5-8 (2019) p.1337-1338 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-019-03556-x

[WOS:000469002200020]

2019 [01] LEHOCKA, Dominika, KLICH, Jiri, PITEL, Jan et al.: Analysis of the Pulsating Water Jet Maximum Erosive Effect on Stainless Steel In: ADVANCES IN MANUFACTURING II, VOL 4 - MECHANICAL ENGINEERING : Poznan (2019) p.233-241 ISBN:978-3-030-16943-5 ISSN:2195-4356 Doi:10.1007/978-3-030-16943-5\_21

[WOS:000490712900021]

2020 [01] BALAMURUGAN, K. et al. Process optimisation and exhibiting correlation in the exploitable variable of AWJM In: International Journal of Materials and Product Technology Vol. 61, no. 1 (2020), p. 16-33 ISSN: 0268-1900 DB: WOS  
[WOS:000595633400002]

2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3  
[WOS:000521789600004]

2020 [01] MITAL'OVA, Zuzana, MITAL, Dusan, BOTKO, Frantisek et al.: Identification of Topography of Surfaces Created by Turning Biomaterials with Optical Profilometry In: BIORESOURCES vol.15, no.2 (2020) p.2483-2494 ISSN:1930-2126 Doi:10.15376/biores.15.2.2483-2494  
[WOS:000540457600028]

2021 [3] BACHCHHAV, Bhanudas Investigation on Abrasive Water Jet Machining of Al-Al<sub>2</sub>O<sub>3</sub> MMC In: International Journal of Industrial Engineering and Production Research Vol. 32, no.1 (2021), p. 93-103 ISSN: 2345-363X

2021 [01] SINGH, Navneet K., ANG, Andrew S. M., MAHAJAN, Dhiraj K., SINGH, Harpreet: Cavitation erosion resistant nickel-based cermet coatings for monel K-500 In: TRIBOLOGY INTERNATIONAL vol.159, (2021) ISSN:0301-679X eISSN:1879-2464 Doi:10.1016/j.triboint.2021.106954  
[WOS:000639757200001]

2021 [01] SINGH, Navneet K., KUMAR, Avneesh, ANG, Andrew S. M., SINGH, Harpreet et al.: Characterization and Slurry Erosion Mechanisms of Nickel-Based Cermet Coatings on Monel K-500 In: JOURNAL OF THERMAL SPRAY TECHNOLOGY vol.30, no.8 (2021) p.2138-2154 ISSN:1059-9630 eISSN:1544-1016 Doi:10.1007/s11666-021-01267-y  
[WOS:000712493200001]

AFD004 ZAJAC, Jozef - DUPLÁK, Ján - BOTKO, František - BREZÍKOVÁ, Katarína - ROMAN, Ján - BERNÁT, Andrej: **Možnosti výroby malého CNC stroja s polymerbetónovou nosnou sústavou** / - 2017. In: ARTEP 2017. - Košice : TU, 2017 S. 1-10. - ISBN 978-80-553-3075-4

AFD005 ZAJAC, Jozef - BOTKO, František - RADCHENKO, Svetlana - RADIČ, Pavol - BERNÁT, Andrej - ROMAN, Ján - ZAJAC, Branislav: **Evaluation of selected surface integrity parameters after machining of composite materials with natural reinforcement** / - 2017. In: SmartCity360 2016. - Gent : EAI, 2017 S. 1-9. - ISBN 978-1-63190-149-2

AFD006 PETRUŠKA, Ondrej - BOTKO, František - DUPLÁK, Ján - RADCHENKO, Svetlana - UNGUREANU, Nicolae: **Možnosti využitia kompozitných materiálov na báze polymérbetónu pre výrobu CNC strojov** / - 2018. In: Automatizácia a riadenie v teórii a praxi : ARTEP 2018. - Košice : TU, 2018 S. 20-1 - 20-11. - ISBN 978-80-553-2914-7

AFD007 SIMKULET, Vladimír - BOTKO, František - DUPLÁK, Ján - ČIŽMÁR, Peter - BITTNER, Anton - ROMAN, Ján: **Analýza a interpretácia štruktúry polymérbetónových kompozitov** / - 2018. In: Transfer 2018 : využívanie nových poznatkov v strojárskych praxi. - Trenčín (Slovensko) : Trenčianska univerzita Alexandra Dubčeka v Trenčíne s. 1-5 [online]. - ISBN 978-80-8075-827-1

AFD008 BOTKO, František - HATALA, Michal - BERAXA, Pavol - RADCHENKO, Svetlana - ŠUŤÁK, Dušan: **Výskum, výroba a prevádzkové overenie prototypových nástrojov pre tvárnenie výmenníkových rúr s tvarovo členitým vnútorným povrchom pre zvyšovanie efektívnosti energetických zariadení - teoretické východiska riešenia** / - 2018. In:

ARTEP 2018 Automatizácia a riadenie v teórii a praxi 2018 : 12. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-11 [CD-ROM]. - ISBN 978-80-553-2914-7

AFD009 BOTKO, František - MITAL, Dušan - CZÁN, Andrej - ZAJAC, Jozef - ŠUŤÁK, Dušan: **Predikčný model zvyškových napätí po trieskovom obrábaní pre ocel 11SMn30** / - 2018. In: ARTEP 2018 Automatizácia a riadenie v teórii a praxi 2018 : 12. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-9 [CD-ROM]. - ISBN 978-80-553-2914-7

AFD010 BOTKO, František - HATALA, Michal - BERAXA, Pavol - RADCHENKO, Svetlana - RADIČ, Pavol - OLEXA, Igor: **Hodnotenie adhezívnych vlastností CVD povlakov pre nástroje na ťahanie rúr** / - 2018. In: Transfer 2018 : využívanie nových poznatkov v strojárkej praxi. - Trenčín (Slovensko) : Trenčianska univerzita Alexandra Dubčeka v Trenčíne s. 1-5 [online]. - ISBN 978-80-8075-827-1

AFD011 SIMKULET, Vladimír - PARILÁK, Ľudovít - KOVALČIKOVA, Alexandra - MITALOVÁ, Zuzana - BOTKOVÁ, Dominika - DUPLÁKOVÁ, Darina - BOTKO, František - KOČÍŠKO, Marek: **Hodnotenie tribologických charakteristík materiálu pripraveného technológiou laserového spekania kovu** / - 2019. In: Transfer 2019 : 20th international scientific conference. - Trenčín (Slovensko) : Trenčianska univerzita Alexandra Dubčeka v Trenčíne s. 200-204 [CD-ROM]. - ISBN 978-80-8075-889-9

AFD012 BOTKO, František - ZAJAC, Jozef - CZÁN, Andrej - RADCHENKO, Svetlana - SIMKULET, Vladimír - RADIČ, Pavol - BIRČÁK, Jaroslav: **Preliminary Study of Residual Stress Measurement Using Eddy Currents Phasor Angle** / - 2019. In: Advances in Manufacturing Engineering and Materials : proceedings of the International Conference on Manufacturing Engineering and Materials. - Cham (Švajčiarsko) : Springer International Publishing AG s. 386-397 [print, online]. - ISBN 978-3-319-99352-2

#### Ohlasy:

2019 [01] BOTKO, Frantisek, ZAJAC, Jozef, CZAN, Andrej et al.: Influence of Residual Stress Induced in Steel Material on Eddy Currents Response Parameters In: ADVANCES IN MANUFACTURING II, VOL 4 - MECHANICAL ENGINEERING : Poznan (2019) p.551-560 ISBN:978-3-030-16943-5 ISSN:2195-4356 Doi:10.1007/978-3-030-16943-5\_47 [WOS:000490712900047]

2020 [01] ELBAKIAN, Anri et al. Reasons for the formation of non-fibrous inclusions when preparing basalt fibers by the duplex method In: Materials Vol. 13, no. 21 (2020), art.no. 5033 ISSN: 1996-1944 DB: WOS [WOS:000589262600001]

2020 [01] SAGA, Milan et al. Research of the Fatigue Life of Welded Joints of High Strength Steel S960 QL Created Using Laser and Electron Beams In: Marterials Vol. 13, no. 11 (2020), art.no. 2539 ISSN: 1996-1944 DB: WOS [WOS:000551495800115]

2020 [01] Elbakian, Anri et al. Reasons for the formation of non-fibrous inclusions when preparing basalt fibers by the duplex method In: Materials Roč. 13, č. 3 (2020), s. [1-15] [online] ISSN: 1996-1944 (online) DB: WOS

2020 [01] LEHOCKA, Dominika, BOTKO, Frantisek, KLICH, Jiri et al.: Effect of pulsating water jet disintegration on hardness and elasticity modulus of austenitic stainless steel AISI 304L In: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY vol.107, no.5-6 (2020) p.2719-2730 ISSN:0268-3768 eISSN:1433-3015 Doi:10.1007/s00170-020-05191-3 [WOS:000521789600004]

AFD013 BOTKO, František - ZAJAC, Jozef - BERAXA, Pavol - DUPLÁK, Ján - BELLA, Peter: **Výskum, výroba a prevádzkové overenie prototypových nástrojov pre tvárnenie výmenníkových rúr s tvarovo členitým vnútorným povrchom pre zvyšovanie efektívnosti energetických zariadení - simulácia procesu tvárnenia / - 2019.** In: ARTEP 2019 Automatizácia a riadenie v teórii a praxi 2019 : 13. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-6 [CD-ROM]. - ISBN 978-80-553-3250-5

AFD014 DUPLÁKOVÁ, Darina - RADCHENKO, Svetlana - BOTKO, František - PETRUŠKA, Ondrej - GOLDYNYIAK, Dávid: **Výskum nového kompozitného materiálu na výrobu CNC strojov pre progresívne obrábanie výrobkov z práškových materiálov vyrábaných aditívnou technológiou DMLS - Skúšanie nového kompozitného materiálu / - 2019.** In: ARTEP 2019 Automatizácia a riadenie v teórii a praxi 2019 : 13. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 00-1-00-8 [CD-ROM]. - ISBN 978-80-553-3250-5

AFD015 BOTKOVÁ, Dominika - BOTKO, František - HATALA, Michal - MITALOVÁ, Zuzana - MITAL, Dušan - SITEK, Libor: **Prehľad možností obrábania abrazívnym vodným prúdom na báze ľadu / - 2020.** In: Automatizácia a riadenie v teórii a praxi 2020 : 14. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-10 . - ISBN 978-80-553-3487-5

AFD016 BOTKO, František - HATALA, Michal - RADCHENKO, Svetlana - BOTKOVÁ, Dominika - ŠUŤÁK, Dušan - DILYOVÁ, Michaela: **Hodnotenie koeficientu suchého trenia a adhézie pvd povlakov pre nástroje na ťahanie rúr / - 2020.** In: Automatizácia a riadenie v teórii a praxi 2020 : 14. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-7 . - ISBN 978-80-553-3487-5

AFD017 ŠUŤÁK, Dušan - ZAJAC, Jozef - HATALA, Michal - BOTKO, František - ČIŽMÁR, Peter - BITTNER, Anton - BETÁK, Peter: **Simulation of rifled tubes drawing process / - 2020.** In: 24th Slovak-Polish International Scientific Conference on Machine Modelling and Simulations. - Bristol (Veľká Británia) : IOP Publishing s. 1-9 [online]. - ISSN 1757-8981  
Spôsob prístupu: <https://doi.org/10.1088/1757-899X/776/1/012051>.

### AFG - Abstrakty príspevkov zo zahraničných konferencií(3)

AFG001 BOTKO, František - HATALA, Michal - ZAJAC, Jozef - CZÁN, Andrej - RADCHENKO, Svetlana - DUPLÁKOVÁ, Darina: **Dependence of eddy currents phasor angle on residual stress induced in milled steel parts / - 2018.** In: Book of abstracts of the 16th International Conference on Management and Innovative Technologies. - Ljubljana (Slovinsko) : LAT - Laboratory for Alternative Technologies s. 2-2 . - ISBN 978-961-6980-54-8  
Spôsob prístupu: [https://mitconference.files.wordpress.com/2019/06/mit2018\\_final.pdf](https://mitconference.files.wordpress.com/2019/06/mit2018_final.pdf).

AFG002 BOTKOVÁ, Dominika - KLICH, Jiří - BOTKO, František - SIMKULET, Vladimír - KOVAL, K. - KEPIČ, Ján - HATALA, Michal - MITALOVÁ, Zuzana: **Analysis of ultrasonically enhanced water jet maximum erosion effect on copper / - 2019.** In: Vodní paprsek 2019 - výzkum, vývoj, aplikace = Water Jet 2019 - Research, Development, Applications : sborník abstraktů konference o technologii vodního paprsku : book of abstracts of the conference on water jetting technology : Čeladná, 20.-22.11.2019. - Ostrava (Česko) : Ústav geoniky AV ČR s. 77-80 . - ISBN 978-80-86407-80-7

AFG003 BOTKO, František - HLAVÁČEK, Petr - BOTKOVÁ, Dominika - FOLDYNA, V. - HATALA, Michal: **Study of side angle of pockets in tool steels created using abrasive water jet milling / - 2019.** In: Vodní paprsek 2019 - výzkum, vývoj, aplikace = Water Jet

2019 - Research, Development, Applications : sborník abstraktů konference o technologii vodního paprsku : book of abstracts of the conference on water jetting technology : Čeladná, 20.-22.11.2019. - Ostrava (Česko) : Ústav geoniky AV ČR s. 15-18 . - ISBN 978-80-86407-80-7

#### **AGJ - Autorské osvedčenia, patenty, objavy(3)**

AGJ001 HATALA, Michal - BOTKO, František: **Tvárnici nástroj s grafitovými vložkami na zvýšenie mazacieho efektu** Prihláška úžitkového vzoru č. 50127-2020/ - Banská Bystrica : ÚPV SR - 2021. - 5 s.. Spôsob prístupu:  
<https://wbr.indprop.gov.sk/WebRegistre/UzitkovyVzor/Detail/50127-2020>.

AGJ002 HATALA, Michal - BOTKO, František: **Prípravok na kontrolu tolerancie kruhových výrobkov vírivými prúdmi** Prihláška úžitkového vzoru č. 50126-2020/ - Banská Bystrica : ÚPV SR - 2021. - 5 s.. Spôsob prístupu:  
<https://wbr.indprop.gov.sk/WebRegistre/UzitkovyVzor/Detail/50126-2020>.

AGJ003 HATALA, Michal - BOTKO, František: **Prípravok na kontrolu rotačných komponentov vírivými prúdmi s kompenzáciou efektu oddialenia** Prihláška úžitkového vzoru č. 50125-2020/ - Banská Bystrica : ÚPV SR - 2021. - 7 s.. Spôsob prístupu:  
<https://wbr.indprop.gov.sk/WebRegistre/UzitkovyVzor/Detail/50125-2020>.

#### **BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných)(1)**

BEE001 ZAJAC, Jozef - HATALA, Michal - BOTKO, František - OLEXA, Igor - GOLDYNYIAK, Dávid: **Effect of tungsten inert gas welding on structure and hardness of austenitic stainless steel** / - 2019. In: International conference on science technology and management. - Port Louis (India) : ISER-Explore s. 49-52 .

#### **BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných)(2)**

BEF001 ZAJAC, Jozef - HATALA, Michal - BOTKO, František - MIČKO, Miroslav - ZAJAC, Ján: **Simulácia procesu tvárnenia 180° navarovacích oblúkov** / - 2015. In: Odborná konferencia ŽP VVC 2015. - Podbrezová : ŽP Výskumno-vývojové centrum, 2015 S. 125-131. - ISBN 978-80-972091-4-8

BEF002 BERAXA, Pavol - MAŤAŠ, Pavol - KVAČKAJ, Tomáš - ŽEC, Michal - HREBÍČEK, Igor - BOTKO, František - PARILÁK, Ľudovít: **Zvyšovanie životnosti nástrojov v procese tvárnenie za tepla a za studena** / - 2018. In: Odborná konferencia ŽP VVC 2018. - Podbrezová (Slovensko) : ŽP Výskumno-vývojové centrum s.r.o. s. 141-146 . - ISBN 978-80-973141-0-1

#### **BFA - Abstrakty odborných prác zo zahraničných podujatí (konferencie...)(1)**

BFA001 HATALA, Michal - BOTKO, František - PETERKA, Jozef - BELLA, Peter - RADIČ, Pavol: **Evaluation of strain in cold drawing of tubes with internally shaped surface** / - 2019. In: ICCPE 2019. 2019 8th International conference on Chemical and Process Engineering. ICIEM 2019. 2019 3rd International Conference on Innovative Engineering Materials : Bali, Indonesia, April 25-27, 2019 : Conference Abstract. - Stockholm (Švédsko) : The Centre for Baltic and East European Studies s. 18-18 .

Ohlasy:

2020 [01] OKULOV, R., SEMENOVA, N. Simulating the Faceted Tube Drawing In: IOP Conference Series: Materials Science and Engineering : RusMetalCon 2020 : International Russian Conference on Materials and Metallurgical Technology : Chelyabinsk, 22-24th September, 2020 Vol. 969, no. 1 (2020), art. no. 012073 ISSN: 1757-8981 DB: Scopus

2020 [01] SENTRYAKOV, Kirin, PETERKA, Jozef, SMIRNOV, Vitalii et al.: Modeling of Boring Mandrel Working Process with Vibration Damper In: MATERIALS vol.13, no.8 (2020) eISSN:1996-1944 Doi:10.3390/ma13081931 [WOS:000531829000135]

2021 [01] OKULOV, R. A., SEMENOVA, N. V.: Modeling the Drawing of Square-Cross-Section Pipes/Tubes Made from Various Materials In: METALLURGIST vol.65, no.5-6 (2021) p.571-577 ISSN:0026-0894 eISSN:1573-8892 Doi:10.1007/s11015-021-01192-z [WOS:000701381600008]

## V2 - Výstup publikačnej činnosti ako časť editovanej knihy alebo zborník - Vedecký(3)

V2001 BOTKOVÁ, Dominika - KLICH, Jiří - SIMKULET, Vladimír - BOTKO, František - KOVAL', Karol - KEPIČ, Ján - MITAL'OVÁ, Zuzana - HATALA, Michal: **Effect of the ultrasonically enhanced water jet on copper surface topography at a low traverse speed** / - 2021. In: Advances in Water Jetting : Selected Papers from the International Conference on Water Jet 2019 : Research, Development, Applications. - Cham (Švajčiarsko) : Springer Nature s. 126-134 [online, print]. - ISBN 978-3-030-53490-5 Spôsob prístupu: [http://dx.doi.org/10.1007/978-3-030-53491-2\\_14](http://dx.doi.org/10.1007/978-3-030-53491-2_14).

Databázy: WOS: nie CCC: nie SCOPUS: áno

V2002 BOTKO, František - BOTKOVÁ, Dominika - KLICH, Jiří - KLICHOVÁ, Dagmar - SIMKULET, Vladimír: **Preliminary testing of production thin-walled ribs into aluminum alloy aw6060 using the abrasive water jet** / - 2021. In: Advances in Manufacturing Engineering and Materials II : Proceedings of the International Conference on Manufacturing Engineering and Materials. - Cham (Švajčiarsko) : Springer Nature s. 75-86 [print]. - ISBN 978-3-030-71955-5 Spôsob prístupu: [http://dx.doi.org/10.1007/978-3-030-71956-2\\_7](http://dx.doi.org/10.1007/978-3-030-71956-2_7).

Databázy: WOS: nie CCC: nie SCOPUS: áno

V2003 VANDŽURA, Radoslav - SIMKULET, Vladimír - BOTKO, František - GELATKO, Matúš: **A Study of Cut Surface After the Abrasive Water Jet Application on the MS1 Material Prepared by DMLS Method** / - 2022. In: Metallography & Fractography 2022 : Abstract Booklet : Abstracts of Contributions from the 18th International Symposium on Metallography, Fractography and Materials Science. - Košice (Slovensko) : Technická univerzita v Košiciach s. [41-41] [print, CD-ROM]. - ISBN 978-80-553-4064-7 Spôsob prístupu: [http://konferencie.net/metalo/docs/Abstract%20Booklet\\_Metallography%20&%20Fractography%202022.pdf](http://konferencie.net/metalo/docs/Abstract%20Booklet_Metallography%20&%20Fractography%202022.pdf).

## V3 - Výstup publikačnej činnosti z časopisu - Vedecký(9)

V3001 MITAL'OVÁ, Zuzana - BOTKO, František - LITECKÁ, Juliána - MITAL', Dušan - MITAL', Dušan: **Examination of surface quality after drilling of wood plastic composite** / - 2022. In: TEM Journal : Technology, Education, Management, Informatics. - Novi Pazar (Srbsko) : Association for Information Communication Technology Education and Science Roč. 11, č. 1 (2022), s. 323-327 [print, online]. - ISSN 2217-8309 Spôsob prístupu: <http://dx.doi.org/10.18421/tem111-40>.

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno

V3002 BERLADIR, Kristina - HATALA, Michal - HOVORUN, Tetiana - PAVLENKO, Ivan - IVANOV, Vitalii - BOTKO, František - GUSAK, Oleksandr: **Impact of nitrocarburizing on hardening of reciprocating compressor's valves** / - 2022. In: Coatings. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 5 (2022), s. [1-20] [online]. - ISSN 2079-6412 (online) Spôsob prístupu: <http://dx.doi.org/10.3390/coatings12050574>.

Kvartil: WOS:Q2,SCO:Q2 | Impakt faktor: 2.881  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3003 ŽIDZIK, Adrián - MITALOVÁ, Zuzana - BOTKO, František - SIMKULET, Vladimír - LITECKÁ, Juliána - VANDŽURA, Radoslav: **Pattern steel: production technology and fracture surface evaluation** / - 2022. In: Machines, Technologies, Materials. - Sofia (Bulharsko) : Scientific Technical Union of Mechanical Engineering Roč. 16, č. 5 (2022), s. 183-186 [print]. - ISSN 1313-0226 Spôsob prístupu: <https://stumejournals.com/journals/mtm/2022/5/183>.

V3004 MITALOVÁ, Zuzana - BOTKO, František - VANDŽURA, Radoslav - LITECKÁ, Juliána - MITAL, Dušan - MITAL, Dušan - SIMKULET, Vladimír: **Machining of wood plastic composite using awj technology with controlled output quality** / - 2022. In: Machines. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 10, č. 7 (2022), s. [1-12] [online]. - ISSN 2075-1702 (online) Spôsob prístupu: <http://dx.doi.org/10.3390/machines10070566>.

Kvartil: WOS:Q2,SCO:Q2 | Impakt faktor: 2.899  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3005 IVANOV, Vitalii - BOTKO, František - KOLOS, Vitalii - PAVLENKO, Ivan - HATALA, Michal - ANTOSZ, Katarzyna - TROJANOWSKA, Justyna: **Locating Chart Choice Based on the Decision-Making Approach** / - 2022. In: Materials. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 15, č. 10 (2022), s. [1-15] [online]. - ISSN 1996-1944 (online) Spôsob prístupu: <http://dx.doi.org/10.3390/ma15103557>.

Kvartil: WOS:Q1,SCO:Q2 | Impakt faktor: 3.748  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3006 IVANOV, Vitalii - BOTKO, František - DEHTIAROV, Ivan - KOČIŠKO, Marek - EVTUHOV, Artem - PAVLENKO, Ivan - TROJANOWSKA, Justyna: **Development of flexible fixtures with incomplete locating: connecting rods machining case study** / - 2022. In: Machines. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 10, č. 7 (2022), s. [1-13] [online]. - ISSN 2075-1702 (online) Spôsob prístupu: <http://dx.doi.org/10.3390/machines10070493>.

Kvartil: WOS:Q2,SCO:Q2 | Impakt faktor: 2.899  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3007 GELATKO, Matúš - HATALA, Michal - BOTKO, František - VANDŽURA, Radoslav - HAJNYŠ, Jiří: **Eddy current testing of artificial defects in 316l stainless steel samples made by additive manufacturing technology** / - 2022. In: Materials. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 15, č. 19 (2022), s. [1-21] [online]. - ISSN 1996-1944 (online) Spôsob prístupu:



<http://dx.doi.org/10.3390/ma15196783>.

Kvartil: WOS:Q1,SCO:Q2 | Impakt faktor: 3.748  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3008 KANDEVA, Mara - ZAGORSKI, Mihail - NIKOLIČ, Ružica - STOJANOVIĆ, Blaža - BUT, Adrian - BOTKO, František - PITEĽ, Ján - VENCL, Aleksandar: **Friction properties of the heat-treated electroless Ni coatings embedded with c-BN nanoparticles** / - 2022. In: Coatings. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 7 (2022), s. [1-11] [online]. - ISSN 2079-6412 (online) Spôsob prístupu: <http://dx.doi.org/10.3390/coatings12071008>.

Kvartil: WOS:Q2,SCO:Q2 | Impakt faktor: 3.236  
Databázy: WOS: áno CCC: áno SCOPUS: áno

V3009 VANEEV, Sergej - MARTSYNKOVSKYY, Vasyl - HATALA, Michal - MIROSHNICHENKO, Dmytro - BILYK, Yaroslav - SMOLENKO, Dmytro - LAZARENKO, Andrey - BOTKO, František: **Results of the study of a turbogenerator with a peripheral-side channel in non-dimensional and criterial complexes** / - 2022. In: MM Science Journal. - Praha (Česko) : MM Publishing č. October (2022), s. 5913-5917 [print, online]. - ISSN 1803-1269 Spôsob prístupu: [http://dx.doi.org/10.17973/mmsj.2022\\_10\\_2022008](http://dx.doi.org/10.17973/mmsj.2022_10_2022008).

Kvartil: neuvedené | Impakt faktor: neuvedené  
Databázy: WOS: áno CCC: nie SCOPUS: áno