

Prehľad preukázateľných citácií a ohlasov na vedecké a odborné práce

Ing. Marek Vrabel', PhD.

Košice 2020

AAA002 BREZINOVÁ, Janette - VIŇÁŠ, Ján - MARUSCHAK, Pavlo O. - GUZANOVÁ, Anna - DRAGANOVSKÁ, Dagmar - VRABEL' , Marek: **Sustainable renovation within metallurgical production /** - 1. vyd - Lüdenscheid : RAM - Verlag - 2017. - 215 p.. - ISBN 978-3-942303-58-3.

Ohlasy:

2019 [1] HUTSAYLYUK, V. et al. Effect of Hydrogen on the Wear Resistance of Steels upon Contact with Plasma Electrolytic Oxidation Layers Synthesized on Aluminum Alloys In: Metals Vol. 9, no. 3 (2019), article no. 280 ISSN: 2075-4701

2019 [3] MOGILNY, S. G. , SHOLOMITSKII, A. A. , SOTNIKOV, A. L. Technical Audit of Rotary Aggregates In: ICIE 2019 : Proceedings of the 5th International Conference on Industrial Engineering P. 541-549 ISSN: 2195-4364 ISBN: 978-3-030-22062-4

2019 [4] STUDENT , Mykhailo et al. Mechanical Characteristics and Wear Resistance of the Cladding Layers Obtained by Melting of Cored Wires with Simultaneous Vibration of Substrate In: Journal of MECHANICAL ENGINEERING –Strojnícky časopis Roč. 69, č. 1 (2019), s. 109-122 ISSN: 2450-5471

ADC001 BEŇO, Jozef - MAŇKOVÁ, Ildikó - VRABEL' , Marek - KOTTFER, Daniel: **Roughness measurement methodology for selection of tool inserts /** - 2013. In: Measurement. Vol. 46, no. 1 (2013), p. 582-592. - ISSN 0263-2241

Ohlasy:

2014 [1] VARGA, G. Can diamond burnishing be done in an environmentally friendly way? In: Applied Mechanics and Materials Vol. 474 (2014), p. 411-416 ISSN: 1660-9336

2014 [1] STANKOVICS, I., KUNDRAK, J. Some characteristic parameters of the run-in phase in rotational turning and their determination In: Applied Mechanics and Materials Vol. 474 (2014), p. 405-410 ISSN: 1660-9336 ISBN: 978-303785944-5

2014 [1] VARGA, G. Effects of technological parameters on the surface texture of burnished surfaces In: Key Engineering Materials Vol. 581 (2014), p. 403-408 ISSN: 1013-9826

2014 [1] SZABÓ, Gergely - KUNDRÁK, János Investigation of residual stresses in case of hard turning of case hardened 16MnCr5 steel In: Key Engineering Materials Vol. 581 (2014), p. 501-504 ISSN: 1013-9826

2014 [3] SANJAY, Ch., PRITHVI, Ch. Hybrid intelligence systems and artificial neural network (ANN) approach for modeling of surface roughness in drilling In: Cogent Engineering Vol. 1, no. 1 (2014), p. 1-14 ISSN: 2331-1916

2014 [1] BHUIYAN, M.S.H., CHOUDHURY, I.A. Review of Sensor Applications in Tool Condition Monitoring in Machining In: Comprehensive Materials Processing Vol. 13 (2014), p. 539-569 ISBN: 978-008096533-8

2014 [1] MAHESHBABU, T. S., KRISHNAN, N. M. An investigation of PCD 1600 grade insert on machining Al/SiC/B4C hybrid composites based on the Taguchi techniques In: Journal of the

balkan tribological association Vol. 20, no. 3 (2014), p. 463-478 ISSN: 1310-4772

2015 [1] SŁODKI, B., ZĘBALA, W., STRUZIKIEWICZ, G. Correlation between cutting data selection and chip form in stainless steel turning In: Machining Science and Technology Vol. 19, no. 2 (2015), p. 217-235 ISSN: 1091-0344

2014 [1] CAMPOS, P., et al. The Machinability of Hard Materials - A Review In: Machinability of Advanced Materials (2014), p. 145-173 .

2014 [1] FADIN, Y., et al. Acoustic emission and surface roughness of brittle materials In: Technical Physics Letters Vol. 40, no. 12 (2014), p. 1089-1091 ISSN: 1063-7850

2016 [1] FELHÖ, C., KUNDRÁK, J. Surface roughness prediction in face milling by special tools In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 161-167 ISSN: 1013-9826 ISBN: 978-303835625-7

2016 [1] KUNDRÁK, J., MARKOPOULOS, A.P., MAKKAI, T. Assessment of tool life and wear intensity of CBN tools in hard cutting In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 1-6 ISSN: 1013-9826 ISBN: 978-303835625-7

2016 [1] VARGA, G. Possibility to increase the life time of surfaces on parts by the use of diamond burnishing process In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 100-107 ISSN: 1013-9826 ISBN: 978-303835625-7

[1] ZĘBALA, W. The influence of tool stiffness on the dimensional accuracy in titanium alloy milling In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 108-113 ISSN: 1013-9826 ISBN: 978-303835625-7

2016 [1] MATRAS, A., KOWALCZYK, R. Comparison of sintered carbide shafts turning with PCD and CBN tools In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 234-239 ISSN: 1013-9826 ISBN: 978-303835625-7

2016 [1] SODKI, B., STRUZIKIEWICZ, G., LUSARCZYK, Ł. Influence of cutting fluid conditions and cutting parameters on the chip form in turning of titanium and steel alloys In: Key Engineering Materials : ICMP 2015 : 8th International Congress on Precision Machining : 1-3 October 2015, Novi Sad, Serbia Vol. 686 (2016), p. 74-79 ISSN: 1013-9826 ISBN: 978-303835625-7

2017 [1] ESCAMILLA-SALAZAR, I.G et al. Intelligent tools selection for roughing and finishing in machining of Inconel 718 In: The International Journal of Advanced Manufacturing Technology Vol. 88, no. 9-12 (2017), p. 3031-3039 ISSN: 0268-3768

2017 [3] BÍLEK, Ondřej - KOVÁŘÍK, Martin Stress Analysis of the Rotating Circular Saw Blade In: Solid State Phenomena 261 : Precision Machining 9 : ICPM 2017 : 9th international conference : Athens, September 6-9, 2017 P. 259-265 ISBN: 978-3-0357-1199-8

2018 [1] ARRUDA, Étory Madrilles - BRANDÃO, Lincoln Cardoso Performance study of multilayer carbide tool in high-speed turning of API 5L X70 pipeline steel using a cold air system

In: The International Journal of Advanced Manufacturing Technology Vol. 94, no. 1-4 (2018), p. 85-103 ISSN: 0268-3768

2017 [3] VARGA, Gyula - FERENCSIK, Viktoria Analysis of shape correctness of surfaces of diamond burnished components In: MATEC Web of Conferences volume 137 : Modern Technologies in Manufacturing : Cluj-Napoca, October 12-13, 2017 P. 1-8 ISBN: 978-2-7598-9027-9

2018 [1] FARKAS, G., DRÉGELYI-KISS, Á. Measurement uncertainty of surface roughness measurement In: IOP Conference Series : Materials Science and Engineering : 23. International Conference on Manufacturing (Manufacturing 2018) : 7-8-June 2018, Kecskemét, Hungary Vol. 448, No. 1 (2018) ISSN: 1757-8981

ADC002 BEŇO, Jozef - MAŇKOVÁ, Ildikó - IŽOL, Peter - VRABEL, Marek: **An approach to the evaluation of multivariate data during ball end milling free-form surface fragments /** - 2016. In: Measurement. Vol. 84 (2016), p. 7-20. - ISSN 0263-2241

Ohlasy:

2016 [1] WOJCIECHOWSKI, S. et al. Investigation on the edge forces in ball end milling of inclined surfaces In: International Journal of Mechanical Sciences Vol. 119 (2016), p. 360-369 ISSN: 0020-7403

2016 [1] MATAS, A., PLAZA, M. The FEM simulation of the thin walled aircraft engine corpus deformation during milling In: Proceedings of SPIE-The International Society for Optical Engineering: Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments 2016 : Wilga, May 29-June 6, 2016 Vol. 10031 (2016), Art. no. 100310B ISBN: 978-151060485-8

2016 [4] ZAUJEC, Rudolf et al. Reduction of milling time by using CAQ technologies In: Research Papers : Faculty of materials science and technology in Trnava Vol. 24, no. 38 (2016), p. 81-86 ISSN: 1338-0532

2016 [4] PILC, Jozef et al. Identification of Tool Wear when Machining of Austenitic Steels and Titanium by Miniature Machining In: Technological Engineering Vol. 13, no. 2 (2016), p. 40-43 ISSN: 2451-3156

2016 [4] CZAN, Andrej et al. Triaxial measurement method for analysis of residual stress after high feed milling by x-ray diffraction In: Technological Engineering Vol. 13, no. 2 (2016), p. 31-33 ISSN: 2451-3156

2017 [1] MATRAS, A. The infrared camera application for calculating the impact of the feed screw thermal expansion on machining accuracy In: Proceedings of SPIE : Photonics Applications in Astronomy, Communications, Industry, and High Energy Physics Experiments : Wilga, 28 May-06 Jun, 2017 Vol. 10445 (2017), art. no. UNSP 1044515 ISBN: 978-1-5106-1355-3

2018 [1] KHORASANI, A.M. A comprehensive study on surface quality in 5-axis milling of SLM Ti-6Al-4V spherical components In: International Journal of Advanced Manufacturing Technology Vol. 94, no. 9-12 (2018), p. 3765-3784 ISSN: 02683768

2017 [1] BÍLEK, O., BADUROVÁ, J., SMETKA, P. Deflection of complex geometry cutting tools In: Manufacturing Technology Vol. 17, no. 6 (2017), p. 830-836 ISSN: 1213-2489

ADC003 VIŇÁŠ, Ján - VRABEL' Marek - GREŠ, Miroslav - BREZINA, Jakub - SABADKA, Dušan - FEDORKO, Gabriel - MOLNÁR, Vieroslav: **Restoration of worn movable bridge props with use of bronze claddings** / - 2018. In: Materials. Vol. 11, no. 4 (2018), p. 1-13. - ISSN 1996-1944.

Ohlasy:

2018 [4] GAMON, Wojciech Analysis of the cost-effectiveness of implementing a new method of protecting railway buffer heads In: Globalization and Its Socio-Economic Consequences : 18th International Scientific Conference : Rajecke Teplice. 10-11 October, 2018 S. 1576-1582 ISBN: 978-80-8154-249-7

ADE001 STAHOVEC, Jozef - BEŇO, Jozef - VRABEL' Marek: **Investigation of the cusp height when ball-end milling form shaped surfaces** / - 2013. In: Zeszyty Naukowe Politechniki Rzeszowskiej 288: Mechanika. Vol. 30, no. 85 (2) (2013), p. 187-196. - ISSN 0209-2689

Ohlasy:

2015 [3] MIKÓ, Balázs, BARANYAI, Gergely The effect of milling direction to surface quality when free form surface finishing In: Development in machining technology: Scientific Research Reports: Krakow P. 62-76 ISBN: 978-83-7242-844-8

ADE002 KANDRÁČ, Ladislav - MAŇKOVÁ, Ildikó - VRABEL' Marek: **Cutting edge preparation in machining processes** / - 2013. In: Zeszyty Naukowe Politechniki Rzeszowskiej 288: Mechanika. Vol. 30, no. 85 (2) (2013), p. 149-159. - ISSN 0209-2689

Ohlasy:

2014 [1] KUNDRÁK, J. et al. A method for planning the cutting ability of CBN tools In: Manufacturing Technology Vol. 14, no. 2 (2014), p. 206-213 ISSN: 1213-2489

2016 [3] TUSSET, Felipe - AIRTON CONSALTER, Luiz - DURÁN, Orlando The effects of microgeometries in carbide twist drill on dry drilling of cast iron In: The International Journal of Advanced Manufacturing Technology P. 1-13 ISSN: 0268-3768

2018 [1] ABDULKADIR, L.N. et al. Review of molecular dynamics/experimental study of diamond-silicon behavior in nanoscale machining In: International Journal of Advanced Manufacturing Technology Vol. 98, no. 1-4 (2018), p. 317-371 ISSN: 0268-3768

ADE003 VARGA, Ján - STAHOVEC, Jozef - BEŇO, Jozef - VRABEL' Marek: **Assessment of surface quality for chosen milling strategies when producing relief surfaces** / - 2014. In: Advances in Science and Technology : Research Journal. Vol. 8, no. 22 (2014), p. 37-41. - ISSN 2299-8624 .

Ohlasy:

2017 [1] SHCHUROV, I., AL-TAE, LH. Constant Scallop-Height Tool Path Generation for Ball-End Mill Cutters and Three-Axis CNC Milling Machines In: Procedia Engineering Vol. 206

ADM001 MAŇKOVÁ, Ildikó - VRABEL' Marek - KOVÁČ, Pavel: **Artificial neural network application for surface roughness prediction when drilling nickel based alloy /** - 2013. In: Manufacturing Technology. Vol. 13, no. 2 (2013), p. 193-199. - ISSN 1213-2489

Ohlasy:

2014 [1] BÍLEK, Ondrej, SÁMEK, David Neural networks in modeling of CNC milling of moderate slope surfaces In: Advances in Intelligent Systems and Computing : 3rd Computer Science Online Conference, CSOC 2014; Code 113859 Vol. 285 (2014), p. 75-83 ISSN: 21945357 ISBN: 978-331906739-1

2015 [1] SHAO, Jian, HE, Wenquan Sun Anrui Setup system of selective roll cooling based on profile prediction in aluminum hot strip mill In: Manufacturing Technology Vol. 15, no. 2 (2015), p. 204-209 ISSN: 12132489

2016 [1] MOURALOVA, K. et al. Evaluation of MRR after WEDM depending on the resulting surface In: Manufacturing Technology Vol. 16, no. 2 (2016), p. 396-401 ISSN: 1213-2489

2016 [1] LU, X. at al. Surface roughness prediction model of micro-milling Inconel 718 with consideration of tool wear In: International Journal of Nanomanufacturing Vol. 12, no. 1 (2016), p. 93-108 ISSN: 1746-9392

2016 [1] MARKOPOULOS, A.P., KUNDRÁK, J. FEM/AI models for the simulation of precision grinding In: Manufacturing Technology Vol. 16, no. 2 (2016), p. 384-390 ISSN: 1213-2489

2016 [1] MOURALOVA, K. et al. Effect of wirefeed rate on the morphology of a surface machined using WEDM In: Manufacturing Technology Vol. 16, no. 4 (2016), p. 750-754 ISSN: 1213-2489

ADM002 MAŇKOVÁ, Ildikó - VRABEL' Marek - BEŇO, Jozef - KOVÁČ, Pavel - GOSTIMIROVIC, Marin: **Application of Taguchi method and surface response methodology to evaluate of mathematical models for chip deformation when drilling with coated and uncoated twist drills /** - 2013. In: Manufacturing Technology. Vol. 13, no. 4 (2013), p. 492-499. - ISSN 1213-2489

Ohlasy:

2014 [1] KOURIL, K. et al. Surface integrity at reaming operation by MT3 head In: Manufacturing Technology Vol. 14, no. 2 (2014), p. 193-199 ISSN: 1213-2489

2015 [1] HORVATH, R., DREGELYI-KISS, A. Analysis of surface roughness of aluminum alloys fine turned: United phenomenological models and multi-performance optimization In: Measurement Vol. 64 (2015), p. 181-192 ISSN: 0263-2241

2014 [3] HORVÁTH, R., MÁTYÁSI, Gy., DRÉGELYI-KISS, Á. The examination of homogeneity in the fine turning of aluminium alloy In: Journal of Production Engineering Vol. 17, no. 2 (2014),

p. 35-39 ISSN: 1821-4932

2015 [1] HORVÁTH, R., DRÉGELYI-KISS, Á., MÁTYÁSI, Gyula The examination of surface roughness parameters in the fine turning of hypereutectic aluminium alloys In: UPB Scientific Bulletin, Series D: Mechanical Engineering Vol. 77, no. 2 (2015), p. 205-216 ISSN: 1454-2358

2015 [1] KOLESNYK, V., KRYVORUCHKO, D., V, HATALA, M. The effect of cutting temperature on carbide drilling life in the process of CFRP/steel stacks drilling In: Manufacturing Technology Vol. 15, no. 3 (2015), p. 357-362 ISSN: 1213-2489

2015 [1] DREGELYI-KISS, A., HORVATH, R. Examination of aluminium fine turning process with Taguchi method In: 21st IMEKO World Congress on Measurement in Research and Industry : Prague, 30 August - 4 September 2015 b.s.

2016 [1] KUNDRAK, J., FELHO, C. 3D roughness parameters of surfaces face milled by special tools In: Manufacturing Technology Vol. 16, no. 3 (2016), p. 532-538 ISSN: 1213-2489

ADM005 VRABEL', Marek - MAŇKOVÁ, Ildikó - PAĽO, Miroslav - LATTNER, Radek: **The effect of artificial neural network architecture on surface roughness parameter prediction capability when turning inconel 718 /** - 2016. In: Manufacturing Technology. Vol. 16, no. 4 (2016), p. 834-839. - ISSN 1213-2489

Ohlasy:

2017 [1] MATRAS, A. The infrared camera application for calculating the impact of the feed screw thermal expansion on machining accuracy In: Proceedings of SPIE : Photonics Applications in Astronomy, Communications, Industry, and High Energy Physics Experiments : Wilga, 28 May-06 Jun, 2017 Vol. 10445 (2017), art. no. UNSP 1044515 ISBN: 978-1-5106-1355-3

2018 [1] KUNDRÁK, J. et al. Correlation between process parameters and cutting forces in the face milling of steel In: Lecture Notes in Mechanical Engineering No. 9783319756769 (2018), p. 255-267 ISSN: 2195-4356

AEC001 STAHOVEC, Jozef - VRABEL', Marek - KANDRÁČ, Ladislav - BEŇO, Jozef - MAŇKOVÁ, Ildikó: **Study of cusp height in the ball-end milling process /** - 2013. In: Development in Machining Technology : Scientific Research Reports : vol. 3. - Cracow : Cracow University of Technology, 2013 P. 51-61. - ISBN 978-83-7242-697-0

Ohlasy:

2018 [1] KUNDRÁK, J., FELHO, Cs. Pages Investigation of the topography of face milled surfaces In: Materials Science Forum Vol. 919 (2018), p. 78-83 ISSN: 0255-5476

AEC003 KANDRÁČ, Ladislav - MAŇKOVÁ, Ildikó - VRABEL', Marek - BEŇO, Jozef - STAHOVEC, Jozef - DURAKBASA, N.M. - BAS, G.: **Outline of cutting edge preparation and model proposal for nanometrological process management /** - 2013. In: Development in Machining Technology : Scientific Research Reports : Vol. 3. - Krakow : Poligrafia Politechniki Krakowskiej, 2013 P. 62-81. - ISBN

978-83-7242-697-0

Ohlasy:

2015 [1] MIKÓ, B. et al. Investigation of cutting edge preparation for twist drills In: International Journal of Machining and Machinability of Materials Vol. 17, no. 6 (2015), p. 529-542 ISSN: 1748-5711

AEC004 VRABEL', Marek - MAŇKOVÁ, Ildikó - BEŇO, Jozef - KANDRÁČ, Ladislav - STAHOVEC, Jozef: **Adaptive control system to assist the surface workpiece quality when drilling /** - 2014. In: Applied Mechanics and Materials : Novel Trends in Production Devices and Systems. - Zürich : TTP, 2014 Vol. 474 (2014), p. 212-217. - ISBN 978-3-03785-944-5 - ISSN 1660-9336.

Ohlasy:

2016 [1] BARBATO, G. et al. Method for automatic alignment recovery of a spur gear In: International Journal of Production Research Vol. 54, no. 15 (2016), p. 4475-4486 ISSN: 0020-7543

AEC005 KANDRÁČ, Ladislav - MAŇKOVÁ, Ildikó - VRABEL', Marek - BEŇO, Jozef: **Finite element simulation of cutting forces in orthogonal machining of Titanium alloy Ti-6Al-4V /** - 2014. In: Applied Mechanics and Materials : Novel Trends in Production Devices and Systems. - Zürich : TTP, 2014 Vol. 474 (2014), p. 192-199. - ISBN 978-3-03785-944-5 - ISSN 1660-9336

Ohlasy:

2016 [1] MARKOPOULOS, A.P., KARKALOS, N.E., MANOLAKOS, D.E. Molecular dynamics study of abrasive grain morphology and orientation in nano-metric grinding In: Key Engineering Materials : ICPM 2015 : 8th International Congress on Precision Machining : Novi Sad, 1-3 October, 2015 Vol. 868 (2016), p. 7-12 ISSN: 1013-9826 ISBN: 978-303835625-7

2016 [1] KUNDRÁK, J. et al. Diamond grinding wheels production study with the use of the finite element method In: Journal of Advanced Research Vol. 7, no. 6 (2016), p. 1057-1064 ISSN: 2090-1232

2018 [1] KUNDRÁK, J. et al. Evaluation of the characteristics of diamond grinding wheels at their production and operation stages In: International Journal of Advanced Manufacturing Technology Vol. 94, no. 1-4 (2018), p. 1131-1137 ISSN: 0268-3768

AEC013 VRABEL', Marek - MAŇKOVÁ, Ildikó - IŽOL, Peter - SEMANOVÁ, Mária - PAĽO, Miroslav: **Influence of cutting parameters and tool geometry on thrust force behavior in drilling Ti6Al4V /** - 2016. In: Materials Science Forum volume 862 : Novel Trends in Production Devices and Systems 3. - Switzerland : TTP, 2016 P. 3-10. - ISBN 978-3-03835-728-5 - ISSN 0255-5476.

Ohlasy:

2017 [1] MATRAS, A. The infrared camera application for calculating the impact of the feed screw thermal expansion on machining accuracy In: Proceedings of SPIE : Photonics Applications in Astronomy, Communications, Industry, and High Energy Physics Experiments :

AEC015 IŽOL, Peter - VRABEL' , Marek - MAŇKOVÁ, Ildikó: **Comparison of Milling Strategies when Machining Freeform Surfaces /** - 2016. In: Materials Science Forum volume 862 : Novel Trends in Production Devices and Systems 3. - Switzerland : TTP, 2016 P. 18-25. - ISBN 978-3-03835-728-5 - ISSN 0255-5476 .

Ohlasy:

2018 [1] KUNDRÁK, J. et al. Analysis of the effect of feed on chip size ratio and cutting forces in face milling for various cutting speeds In: Manufacturing Technology Vol. 18, no. 3 (2018), p. 431-438 ISSN: 1213-2489

AFC001 MAŇKOVÁ, Ildikó - BEŇO, Jozef - VRABEL' , Marek: **Effect of Workpiece Hardness on Surface Microgeometry when Hard Turning with Ceramic Inserts /** - 2014. In: Key Engineering Materials : ICPM 2013 : 7th International Congress of Precision Machining : 3-5 October 2013, Miskolc, Hungary. Vol. 581 (2014), p. 176-181. - ISBN 978-303785840-0 - ISSN 1013-9826

Ohlasy:

2015 [1] MATRAS, A. The influence of tool inclination angle on the free form surface roughness after hard milling In: Proceedings of SPIE - The International Society for Optical Engineering : Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments 2015 : Wilga; Poland : 25-31 May 2015 ISSN: 0277-786X ISBN: 978-162841880-4

AFC002 VRABEL' , Marek - MAŇKOVÁ, Ildikó - BEŇO, Jozef: **Surface Roughness Modeling and Prediction by ANN when Drilling Udiment 720 /** - 2014. In: Key Engineering Materials : ICPM 2013 : 7th International Congress of Precision Machining : 3-5 October 2013, Miskolc, Hungary. Vol. 581 (2014), p. 366-371. - ISBN 978-303785840-0 - ISSN 1013-9826.

Ohlasy:

2014 [1] FELHO, C., KUNDRÁK, J. Investigation of the topography of machined surfaces In: Applied Mechanics and Materials Vol. 693 (2014), p. 412-417 ISSN: 16609336

2016 [1] FELHÖ, C., KUNDRÁK, J. Surface roughness prediction in face milling by special tools In: Key Engineering Materials Vol. 686 (2016), p.161-167 ISSN: 1013-9826

2018 [1] FARKAS, G. , DRÉGELYI-KISS, Á. Measurement uncertainty of surface roughness measurement In: IOP Conference Series: Materials Science and Engineering : 23rd International Conference on Manufacturing : Keckemét, 7-8 June, 2018 Vol. 448, no. 1 (2018) ISSN: 1757-8981

AFC003 BEŇO, Jozef - MIKÓ, Balázs - MAŇKOVÁ, Ildikó - VRABEL' , Marek: **Influence of tool path orientation on the surface roughness when end ball milling rounded surfaces /** - 2014. In: Key

Engineering Materials : ICPM 2013 : 7th International Congress of Precision Machining : 3-5 October 2013, Miskolc, Hungary. Vol. 581 (2014), p. 329-334. - ISBN 978-303785840-0 - ISSN 1013-9826

Ohlasy:

2016 [1] BÍLEK, O., ŽALUDEK, M., ČOP, J. Cutting tool performance in end milling of glass fiber-reinforced polymer composites In: Manufacturing technology Vol. 16, no. 1 (2016), p. 12-16 ISSN: 1213-2489

2015 [1] MATRAS, A. The influence of tool inclination angle on the free form surface roughness after hard milling In: SPIE - The International Society for Optical Engineering : Photonics Applications in Astronomy, Communications, Industry and High-Energy Physics Experiments : Wilga, 25-31, 2015 Vol. 9662 (2015) ISSN: 0277-786X ISBN: 978-162841880-4

2018 [1] BÍLEK, O. et al. Mathematical methods of surface roughness evaluation of areas with a distinctive inclination In: Manufacturing Technology Vol. 18, no. 3 (2018), p. 363-368 ISSN: 1213-2489

AFC005 VRABEL', Marek - MAŇKOVÁ, Ildikó - BEŇO, Jozef: **Monitoring and Control of Manufacturing Process to Assist the Surface Workpiece Quality When Drilling /** - 2016. In: Procedia CIRP. - London : Elsevier, 2016 Vol. 41 (2016), p. 735-739. - ISSN 2212-8271

Ohlasy:

2017 [1] AHMAROFI, A.A., RAMLI, R., ABIDIN, N.Z. Predicting completion time for production line in a supply chain system through artificial neural networks In: International Journal of Supply Chain Management Vol. 6, no. 3 (2017), p. 82-90 ISSN: 2051-3771

2018 [1] LIU, X. et al. High-efficiency gear hobbing techniques based on fuzzy adaptive control of spindle torque In: Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science2018 DOI: 10.1177/0954406218813393 (2018) ISSN: 0954-4062

AFC006 MAŇKOVÁ, Ildikó - VRABEL', Marek - BEŇO, Jozef - SEMANOVÁ, Mária: **Modelling and analysis of relationship between cutting parameters surface roughness and cutting forces using response surface methodology when hard turning with coated ceramic inserts /** - 2016. In: Key Engineering Materials : ICPM2015. - Switzerland : TransTech Publications, 2016 Vol. 686 (2016), p. 19-26. - ISBN 978-303835625-7 - ISSN 1013-9826.

Ohlasy:

2018 [1] UMAMAMHESHWARRAO, P. et al. Multi objective optimization of process parameters for hard turning of AISI 52100 steel using Hybrid GRA-PCA In: IIITDM : 1st International Conference on Robotics and Smart Manufacturing, RoSMA 2018 : Kancheepuram, 19-21 July, 2018 Vol. 133 (2018), p. 703-710 ISSN: 1877-0509

AFC011 MAŇKOVÁ, Ildikó - VRABEL', Marek - KOTTFER, Daniel - SEMANOVÁ, Mária - PAĽO, Miroslav: **Evaluation of relationship between cutting parameters and torque in hole making of titanium alloy**

/ - 2017. In: Solid State Phenomena : Precision Machining 9 : ICPM 2017. - Zurich : TTP, 2017 Vol. 261 (2017), p. 17-21. - ISBN 978-3-0357-1199-8 .

Ohlasy:

2019 [1] IQBAL, Asif - SUHAIMI, Hazwani - HE, Hing A sustainability comparison between drilling and milling for hole-enlargement in machining of hardened steels In: Machining Science and Technology Vol. 23, no. 5 (2019), p. 712-733 ISSN: 1091-0344.

AFC012 VRABEL' , Marek - MAŇKOVÁ, Ildikó - DURAKBASA, Numan: **Effect of honing parameters on generated surface quality of cylinder liner within automotive engine production** / - 2017. In: Solid State Phenomena : Precision Machining 9 : ICPM 2017. - Zurich : TTP, 2017 Vol. 261 (2017), p. 189-194. - ISBN 978-3-0357-1199-8 .

Ohlasy:

2018 [1] KUNDRÁK, J. et al. Correlation between process parameters and cutting forces in the face milling of steel In: Lecture Notes in Mechanical Engineering No. 9783319756769 (2018), p. 255-267 ISSN: 2195-4356.

73 citačných ohlasov doteraz registrovaných na ***epc.lib.tuke.sk***.

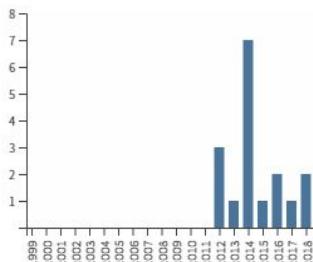
Z toho:

[1] citácie v zahraničných publikáciách registrované v citačných databázach WOS, SCOPUS (61)
[2] citácie v zahraničných publikáciách neregistrované v citačných databázach: (12)

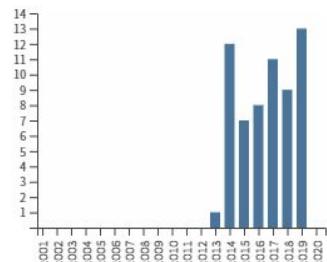
AUTHOR IDENTIFIERS: (B-7873-2018)

Timespan=2012-2020. Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC.

Total Publications by Year



Sum of Times Cited by Year



Results found: 17

Sum of the Times Cited: 61

Average Citations per Item: 3.59

h-index: 4

	2016	2017	2018	2019	2020	Total	Average Citations per Year
1. Title: Roughness measurement methodology for selection of tool inserts By: Beno, Jozef; Mankova, Ildiko; Vrabel, Marek; et al. Source: MEASUREMENT Volume: 46 Issue: 1 Pages: 582-592 Published: JAN 2013	0	2	2	0	0	15	1.88
2. Title: Surface roughness prediction using artificial neural networks when drilling Udimet 720 By: Vrabel, Marek; Mankova, Ildiko; Beno, Jozef; et al. Edited by: Trebuna, F Conference: 5th International Conference on Modelling of Mechanical and Mechatronics Systems (MMaMS) Location: SLOVAKIA Date: NOV 06-08, 2012 Source: MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS Book Series: Procedia Engineering Volume: 48 Pages: 693-700 Published: 2012	2	2	2	0	0	12	1.33
3. Title: An approach to the evaluation of multivariate data during ball end milling free-form surface fragments By: Beno, Jozef; Mankova, Ildiko; Izol, Peter; et al. Source: MEASUREMENT Volume: 84 Pages: 7-20 Published: APR 2016	2	4	1	3	0	10	2.00
4. Title: Monitoring and control of manufacturing process to assist the surface workpiece quality when drilling By: Vrabel, Marek; Mankova, Ildiko; Beno, Jozef Edited by: Teti, R Conference: 48th CIRP International Conference on Manufacturing Systems (CIRP CMS) Location: Ischia, ITALY Date: JUN 24-26, 2015 Source: RESEARCH AND INNOVATION IN MANUFACTURING: KEY ENABLING TECHNOLOGIES FOR THE FACTORIES OF THE FUTURE - PROCEEDINGS OF THE 48TH CIRP CONFERENCE ON MANUFACTURING SYSTEMS Book Series: Procedia CIRP Volume: 41 Pages: 735-739 Published: 2016	0	1	0	3	0	4	0.80
5. Title: Finite Element Simulation of Cutting Forces in Orthogonal Machining of Titanium Alloy Ti-6Al-4V By: Kandrac, Ladislav; Mankova, Ildiko; Vrabel, Marek; et al. Edited by: Velisek, K; Kostal, P; Nad, M Source: NOVEL TRENDS IN PRODUCTION DEVICES AND SYSTEMS Book Series: Applied Mechanics and Materials Volume: 474 Pages: 192-199 Published: 2014	1	1	1	1	0	4	0.57
6. Title: Operation Safety and Performance of Milling Cutters with Shank Style Holders of Tool Inserts By: Beno, Jozef; Mankova, Ildiko; Vrabel, Marek; et al. Edited by: Trebuna, F Conference: 5th International Conference on Modelling of Mechanical and Mechatronics Systems (MMaMS) Location: SLOVAKIA Date: NOV 06-08, 2012 Source: MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS Book Series: Procedia Engineering Volume: 48 Pages: 15-22 Published: 2012	0	0	2	1	0	4	0.44

		2016	2017	2018	2019	2020	Total	Average Citations per Year
		8	11	9	13	0	61	7.63
7.	Title: Analysis of the metallography parameters and residual stress induced when producing bolt holes in Inconel 718 alloy By: Vrabel, Marek; Eckstein, Martin; Mankova, Ildiko Source: INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY Volume: 96 Issue: 9-12 Pages: 4353-4366 Published: JUN 2018	0	0	0	3	0	3	1.00
8.	Title: Influence of tool path orientation on the surface roughness when end ball milling rounded surfaces By: Beno, Jozef; Miko, Balazs; Mankova, Ildiko; et al. Edited by: Kundrak, J; Maros, Z Conference: 7th International Congress of Precision Machining (ICPM 2013) Location: Miskolc, HUNGARY Date: OCT 03-05, 2013 Sponsor(s): Int Visegrad Fund; SANDVIK Cromant Source: PRECISION MACHINING VII Book Series: Key Engineering Materials Volume: 581 Pages: 329-+ Published: 2014	1	0	0	1	0	3	0.43
9.	Title: Comparison of Sensors Signal Quality when Drilling Inconel 718 By: Eckstein, Martin; Mankova, Ildiko; Vrabel, Marek; et al. Edited by: Teti, R Conference: 9th CIRP International Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME) Location: Capri, ITALY Date: JUL 23-25, 2014 Sponsor(s): Int Acad Prod Engn; Fraunhofer Joint Lab Excellence Adv Prod Technol Source: 9TH CIRP CONFERENCE ON INTELLIGENT COMPUTATION IN MANUFACTURING ENGINEERING - CIRP ICME '14 Book Series: Procedia CIRP Volume: 33 Pages: 227-232 Published: 2015	1	0	0	1	0	2	0.33
10.	Title: ASSESSMENT OF SURFACE QUALITY FOR CHOSEN MILLING STRATEGIES WHEN PRODUCING RELIEF SURFACES By: Varga, Jan; Stahovec, Jozef; Beno, Jozef; et al. Source: ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL Volume: 8 Issue: 22 Pages: 37-41 Published: JUN 2014	0	1	0	0	0	1	0.14

[Close](#)

Web of Science
Page 1 (Records 1 -- 10)

◀ [1 | 2] ▶

[Print](#)**Clarivate**

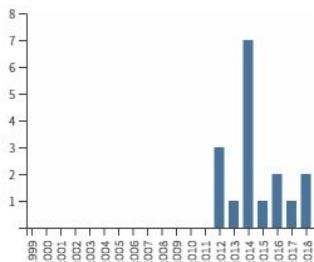
Accelerating innovation

[© 2020 Clarivate](#) [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)
[Sign up for the Web of Science newsletter](#) [Follow us](#)

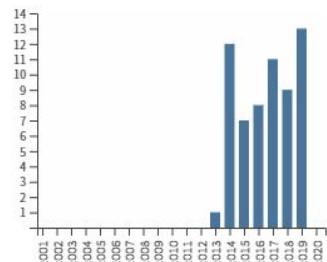

AUTHOR IDENTIFIERS: (B-7873-2018)

Timespan=2012-2020. Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC.

Total Publications by Year



Sum of Times Cited by Year



Results found: 17

Sum of the Times Cited: 61

Average Citations per Item: 3.59

h-index: 4

	2016	2017	2018	2019	2020	Total	Average Citations per Year
	8	11	9	13	0	61	7.63
11.	Title: Adaptive Control System to Assist the Surface Workpiece Quality When Drilling By: Vrabel', Marek; Mankova, Ildiko; Beno, Jozef; et al. Edited by: Velisek, K; Kostal, P; Nad, M Source: NOVEL TRENDS IN PRODUCTION DEVICES AND SYSTEMS Book Series: Applied Mechanics and Materials Volume: 474 Pages: 212-217 Published: 2014	1	0	0	0	0	0.14
12.	Title: Effect of Workpiece Hardness on Surface Microgeometry when Hard Turning with Ceramic Inserts By: Mankova, Ildiko; Beno, Jozef; Vrabel, Marek Edited by: Kundrak, J; Maros, Z Conference: 7th International Congress of Precision Machining (ICPM 2013) Location: Miskolc, HUNGARY Date: OCT 03-05, 2013 Sponsor(s): Int Visegrad Fund; SANDVIK Cromant Source: PRECISION MACHINING VII Book Series: Key Engineering Materials Volume: 581 Pages: 176-181 Published: 2014	0	0	0	0	0	0.14
13.	Title: Surface Roughness Modeling and Prediction by ANN when Drilling Udimet 720 By: Vrabel', Marek; Mankova, Ildiko; Beno, Jozef Edited by: Kundrak, J; Maros, Z Conference: 7th International Congress of Precision Machining (ICPM 2013) Location: Miskolc, HUNGARY Date: OCT 03-05, 2013 Sponsor(s): Int Visegrad Fund; SANDVIK Cromant Source: PRECISION MACHINING VII Book Series: Key Engineering Materials Volume: 581 Pages: 366-371 Published: 2014	0	0	1	0	0	0.14
14.	Title: Restoration of Worn Movable Bridge Props with Use of Bronze Claddings By: Vinas, Jan; Vrabel', Marek; Gres, Miroslav; et al. Source: MATERIALS Volume: 11 Issue: 4 Article Number: 459 Published: APR 2018	0	0	0	0	0	0.00
15.	Title: Application of discrete wavelet decomposition in monitoring of hole-making Inconel 718 By: Eckstein, Martin; Vrabel, Marek; Mankova, Ildiko Edited by: Teti, R Conference: 10th CIRP International Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME) Location: Ischia, ITALY Date: JUL 20-22, 2016 Sponsor(s): Int Acad Prod Engn; Fraunhofer Joint Lab Excellence Adv Prod Technol Source: 10TH CIRP CONFERENCE ON INTELLIGENT COMPUTATION IN MANUFACTURING ENGINEERING - CIRP ICME '16 Book Series: Procedia CIRP Volume: 62 Pages: 244-249 Published: 2017	0	0	0	0	0	0.00
16.	Title: Investigation of the Surface Quality when End-Ball-Milling Form Surfaces with Sequence of the Radii Ratio By: Beno, Jozef; Stahovec, Jozef; Vrabel', Marek Edited by: Velisek, K; Kostal, P; Nad, M Source: NOVEL TRENDS IN PRODUCTION DEVICES AND SYSTEMS Book Series: Applied Mechanics and Materials Volume: 474 Pages: 224-229 Published: 2014	0	0	0	0	0	0.00

	2016	2017	2018	2019	2020	Total	Average Citations per Year
	8	11	9	13	0	61	7.63

17. Title: CUTTING TOOL WEAR PREDICTION BY NEURAL NETWORK WHEN DRILLING UDIMET 720

By: Vrabel, M.; Tuhrsksy, J.; Mankova, I; et al.

Edited by: Kundrak, J; Varga, G; Deszpoth, I

Conference: 13th International Conference on Tools (ICT 2012) Location: Miskolc, HUNGARY Date: MAR 27-28, 2012 Sponsor(s): SANDVIK COROMANT; ZF Hungary Ltd

Source: 13TH INTERNATIONAL CONFERENCE ON TOOLS Pages: 305-310 Published: 2012

[Close](#)

[Print](#)

Web of Science
Page 2 (Records 11 -- 17)

◀ [1 | 2] ▶

© 2020 Clarivate Copyright notice Terms of use Privacy statement Cookie policy

Sign up for the Web of Science newsletter Follow us



Clarivate

Accelerating innovation



Citation overview

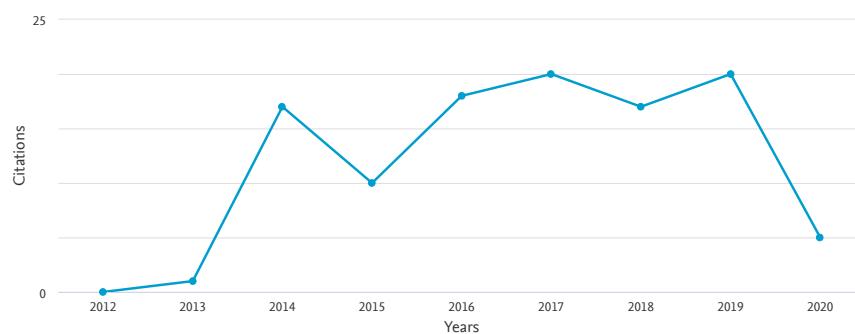
[Back to author details](#)[Export](#) [Print](#)

This is an overview of citations for this author.

Author *h*-index : 5 [View *h*-graph](#) [?](#)

27 Cited Documents from "Vrabel', Marek" [+ Add to list](#)

Author ID:55357158800

Date range: 2012 [▼](#) to 2020 [▼](#) Exclude self citations of selected author Exclude self citations of all authors Exclude citations from books[Update](#)Sort on: Date (newest) [▼](#) Page Remove

Documents	Citations	Cited by years											Subtotal	Total
		<2012	2012	2013	2014	2015	2016	2017	2018	2019	2020			
<input type="checkbox"/> 1 Intelligent Monitoring System for Zero-Defect Production of ...	2020	0	0	1	17	10	18	20	17	20	5	108	0	108
<input type="checkbox"/> 2 Microstructure and mechanical properties of annealed WC/C co...	2019											0	0	0
<input type="checkbox"/> 3 Analysis of the metallography parameters and residual stress...	2018										3	3	3	3
<input type="checkbox"/> 4 Types of tool wear of altin coated cutting insert after mach...	2017										1	1	1	1
<input type="checkbox"/> 5 Effect of honing parameters on generated surface quality of ...	2017										1	1	2	2
<input type="checkbox"/> 6 Evaluation of relationship between cutting parameters and to...	2017										1	1	2	2
<input type="checkbox"/> 7 Application of Discrete Wavelet Decomposition in Monitoring ...	2017										2	2	2	2
<input type="checkbox"/> 8 The effect of artificial neural network architecture on surf...	2016								1	1			2	2
<input type="checkbox"/> 9 Comparison of milling strategies when machining freeform sur...	2016							2	1			3	3	3
<input type="checkbox"/> 10 Influence of cutting parameters and tool geometry on thrust ...	2016							1				1	1	1
<input type="checkbox"/> 11 Tool wear and surface roughness evolution in hole making pro...	2016							2				2	2	2
<input type="checkbox"/> 12 Grinding of Titanium Alloy Ti6Al4V with Silicon Carbide Grin...	2016							2	1	1		4	4	4
<input type="checkbox"/> 13 Monitoring and Control of Manufacturing Process to Assist th...	2016							2	2	1		5	5	5
<input type="checkbox"/> 14 An innovative approach of metrology for high precision and q...	2015							1				1	1	1
<input type="checkbox"/> 15 Comparison of sensors signal quality when drilling inconel 7...	2015							1				2	2	2

Documents		Citations	<2012	2012	2013	2014	2015	2016	2017	2018	2019	2020	Subtotal	>2020	Total
			Total	0	0	1	17	10	18	20	17	20	5	108	0
□ 16	Influence of tool path orientation on the surface roughness ...	2014				1	2		1	1			5		5
□ 17	Effect of workpiece hardness on surface microgeometry when h...	2014					1				1		2		2
□ 18	Surface roughness modeling and prediction by ANN when drilli...	2014				1		1	1	2			5		5
□ 19	Statistical analysis of cutting force, Temperature and power...	2014							1	1			2		2
□ 20	The combined approach to the evaluation of the cutting force...	2014								2		2		2	
□ 21	Finite element simulation of cutting forces in orthogonal ma...	2014						2	2	2	1		7		7
□ 22	Adaptive control system to assist the surface workpiece qual...	2014							1				1		1
□ 23	Investigation of the surface quality when end-ball-milling f...	2014											0		0
□ 24	Application of taguchi method and surface response methodolo...	2013				1	4	4	3			1	13		13
□ 25	Roughness measurement methodology for selection of tool inse...	2013				10	2	6	2	2			22		22
□ 26	Operation safety and performance of milling cutters with sha...	2012				1	1		2	3	1		8		8
□ 27	Surface roughness prediction using artificial neural network...	2012				1	4	1	1	2	2		11		11

Display: ▼ results per page

1

↖ Top of page

About Scopus

- [What is Scopus](#)
- [Content coverage](#)
- [Scopus blog](#)
- [Scopus API](#)
- [Privacy matters](#)

Language

- [日本語に切り替える](#)
- [切换到简体中文](#)
- [切换到繁體中文](#)
- [Русский язык](#)

Customer Service

- [Help](#)
- [Contact us](#)

ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

 RELX