

**TECHNICKÁ UNIVERZITA V KOŠICIACH**

**STROJNÍCKA FAKULTA**

**Katedra technológií, materiálov a počítačovej podpory výroby**



**PREHĽAD PREUKÁZATEĽNÝCH CITÁCIÍ A OHLASOV NA VEDECKÉ  
A ODBORNÉ PRÁCE**

**doc. Ing. Ľuboš Kaščák, PhD.**

**Košice 2023**

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

**Počet záznamov: 2**

AAA - Vedecké monografie vydané v zahraničných vydavateľstvách (1)

AAB - Vedecké monografie vydané v domácich vydavateľstvách (1)

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

**Počet záznamov: 11**

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (3)

BAB - Odborné monografie vydané v domácich vydavateľstvách (1)

BCI - Skriptá a učebné texty (2)

FAI - Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...) (5)

**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: 39**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (13)

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (22)

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (4)

**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: 183**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (37)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (56)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (5)

AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (7)

AEE - Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách (2)

AEF - Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách (6)

AFB - Publikované pozvané príspevky na domácich vedeckých konferenciách (3)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (24)

AFD - Publikované príspevky na domácich vedeckých konferenciách (36)

AFG - Abstrakty príspevkov zo zahraničných konferencií (3)

AFH - Abstrakty príspevkov z domácich konferencií (2)

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (2)

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

**Počet záznamov: 1**

AGJ - Autorské osvedčenia, patenty, objavy (1)

**Skupina Ostatné (do 31.1.2022) - mimo kategórií MŠVvaŠ SR (AFK, AFL, AGI, BGG, CAI, CAJ, CGC, CGD, CIA, CIB, CJA, CJB, CKA, CKB, DAI, EDJ, GAI, GHG, GII, CEC, CED, EDI)**

**Počet záznamov: 15**

AFK - Postery zo zahraničných konferencií (1)

AGI - Správy o vyriešených vedeckovýskumných úlohách (2)

GAI - Výskumné štúdie a priebežné správy (12)

**Záznamy v kategóriách od 1.2.2022**

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

**Počet záznamov: 18**

V2 - Výstup publikačnej činnosti ako časť editovanej knihy alebo zborník - Vedecký (2)

V3 - Výstup publikačnej činnosti z časopisu - Vedecký (16)

**Počet záznamov spolu: 269**

**Citácie - ohlasy:**

[1] Citácie v zahraničných publikáciách, registrované v citačných databázach (WoS, Scopus) - **440**

[2] Citácie v domácich publikáciách, registrované v citačných databázach (WoS, Scopus) - **8**

[3] Citácie v zahraničných publikáciách, neregistrované v citačných databázach - **51**

[4] Citácie v domácich publikáciách, neregistrované v citačných databázach - **17**

**Menný zoznam publikácií:**

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

AAA001 [142959] **Application of modern joining methods in car production** Processes Examples Strength/ Ľuboš Kaščák ... [et al.] - 1. vyd - Rzeszów : Oficyna Wydawnicza Politechniki Rzeszowskiej - 2013. - 143 p.. - ISBN 978-83-7199-903-8.

[KAŠČÁK, Ľuboš (30%) - MUCHA, Jacek (10%) - SLOTA, Ján (30%) - SPIŠÁK, Emil (30%)]

**Ohlasy:**

- 1) 2018 [3] WITKOWSKI, Waldemar - KURC, Krzysztof Deformacja powierzchni blachy górnej połączeń typu clinching In: Mechanik Vol. 91, no. 3 (2018), p. 253-255 ISSN: 0025-6552

**ADC - Vedecké práce v zahraničných karentovaných časopisoch (13)**

ADC001 [70612] **Possibilities of using welding-on technologies in crane wheel renovation** / J. Viňáš, Ľ. Kaščák - 2008. In: Bulletin of Materials Science. Vol. 31, no. 2 (2008), p. 125-131. - ISSN 0250-4707 [VIŇÁŠ, Ján (50%) - KAŠČÁK, Ľuboš (50%)]

**Ohlasy:**

- 2) 2012 [4] MORAVEC, Jaromír, SOBOTKA, Jiří Preheating temperature influence on weld pool geometry during MAG welding In: Transfer inovácií Č. 22 (2012), s. 166-172 ISSN: 1337-7094
- 3) 2012 [4] BUJNA, Marián et al. Odolnosť tvrdonávarov v prevádzkových podmienkach na lemeši pluhu In: Technika v technológiách agrosektora 2012 : Zborník vedeckých prác : Nitra S. 37-41 ISBN: 978-80-552-0895-4
- 4) 2012 [01] BREZINOVA, Janette, VINAS, Jan, LORINCOVA, Denisa: EFFECT OF WORKING TEMPERATURES ON PROPERTIES OF CONTINUOUS STEEL CASTING ROLLS CLADDING LAYERS In: CHEMICKE LISTY vol.106, (2012) p.S387-S389 ISSN:0009-2770
- 5) 2013 [01] VINAS, Jan, BREZINOVA, Janette, GUZANOVA, Anna et al.: Evaluation of the quality of cladding deposited on continuous steel casting rolls In: INTERNATIONAL JOURNAL OF MATERIALS RESEARCH vol.104, no.2 (2013) p.183-191 ISSN:1862-5282 eISSN:2195-8556 Doi:10.3139/146.110842
- 6) 2013 [01] VINAS, J., BREZINOVA, J., GUZANOVA, A.: Analysis of the quality renovated continuous steel casting roller In: SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES vol.38, no.3 (2013) p.477-490 ISSN:0256-2499 Doi:10.1007/s12046-013-0119-3
- 7) 2013 [01] VINAS, Jan, BREZINOVA, Janette, GUZANOVA, Anna et al.: Degradation of renovation layers deposited on continuous steel casting rollers by submerged arc welding In: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE vol.227, no.12 (2013) p.1841-1848 ISSN:0954-4054 eISSN:2041-2975 Doi:10.1177/0954405413493405
- 8) 2019 [2] KALININ, Y. et al. Structure of high-carbon steel after welding with rapid cooling In: Acta Metallurgica Slovaca Roč. 25, č. 2 (2019), s. 114-122 ISSN: 1335-1532 DB: Scopus
- 9) 2019 [3] KALININ, Yu. A. et al. Structure of near weld zone of quenched high carbon steel after welding with rapid cooling In: Innovative materials and technologies in metallurgy and mechanical engineering No. 1 (2019), p. 31-38 ISSN: 1727-0219
- 10) 2019 [3] LEBEDEV, V., DUBOVYI, O., LOI, S. Research and estimation of thermal-cycle firmness of plasma spraying more compact coverages are for knots of gas-turbine In: New materials and technologies in metallurgy and mechanical engineering No. 2 (2019), p. 38-46 ISSN: 1727-0219

ADC002 [109396] **Research into properties of joints of combined materials made by resistance spot welding** / Emil Spišák, Ľuboš Kaščák, Ján Viňáš - 2011.In: Chemické listy. Vol. 105, no. 16 (2011), p. 488-490. - ISSN 0009-2770.

[SPIŠÁK, Emil (33%) - KAŠČÁK, Ľuboš (34%) - VIŇÁŠ, Ján (33%)]

#### Ohlasy:

- 11) 2013 [01] KASCAK, L'ubos, SPISAK, Emil, GAJDOS, Ivan: JOINING THE COMBINATION OF AHSS STEEL AND HSLA STEEL BY RESISTANCE SPOT WELDING In: ACTA MECHANICA ET AUTOMATICA vol.7, no.2 (2013) p.75-78 ISSN:1898-4088 eISSN:2300-5319 Doi:10.2478/ama-2013-0013

- 12) 2014 [01] KASCAK, L'ubos, SPISAK, Emil, PESEK, L et al.: Effect of Welding Parameters on the Quality of Spot Welds Combining AHSS Steel and HSLA Steel In: LOCAL MECHANICAL PROPERTIES IX : Levoca vol.586, (2014) p.162-165 ISBN:\*\*\*\*\* ISSN:1013-9826 Doi:10.4028/www.scientific.net/KEM.586.162
- 13) 2016 [01] VINAS, Jan, KASCAK, L'ubos, GRES, Miroslav: Optimization of resistance spot welding parameters for microalloyed steel sheets In: OPEN ENGINEERING vol.6, no.1 (2016) p.504-510 ISSN:2391-5439 Doi:10.1515/eng-2016-0069
- 14) 2017 [3] SAHUL, Miroslav et al. Disk Laser Weld Brazing of AW5083 Aluminum Alloy with Titanium Grade 2 In: Journal of Materials Engineering and Performance DOI: 10.1007/s11665-017-2529-9 (2017) ISSN: 1059-9495
- 15) 2017 [1] SAHUL, Miroslav et al. Disk laser weld brazing of AW5083 aluminum alloy with titanium grade 2 In: Journal of Materials Engineering and Performance Vol. 26, no. 3 (2017), p. 1346-1357 ISSN: 1544-1024 DB: WOS
- 16) 2021 [01] KASCAK, L'ubos, CMOREJ, Denis, SPISAK, Emil et al.: Joining the High-Strength Steel Sheets Used in Car Body Production In: ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL vol.15, no.1 (2021) p.184-196 ISSN:2080-4075 eISSN:2299-8624 Doi:10.12913/22998624/131739
- 17) 2023 [01] ELITAS, Muhammed: Effects of welding parameters on tensile properties and failure modes of resistance spot welded DC01 steel In: PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING (2023) ISSN:0954-4089 eISSN:2041-3009 Doi:10.1177/09544089231167766

ADC003 [111648] **Quality Evaluation of Resistance Spot Welds of Hot-Dip Galvanized Sheets In Corrosive Environment** / Ľuboš Kaščák ... [et al.] - 2011.In: Chemické listy. Vol. 105, no. S (2011), p. 709-712. - ISSN 0009-2770.

[KAŠČÁK, Ľuboš (25%) - BREZINOVÁ, Janette (25%) - HALAMA, Maroš (25%) - VIŇÁŠ, Ján (25%)]

#### Ohlasy:

- 18) 2014 [01] KASCAK, L'ubos, SPISAK, Emil, PESEK, L et al.: Effect of Welding Parameters on the Quality of Spot Welds Combining AHSS Steel and HSLA Steel In: LOCAL MECHANICAL PROPERTIES IX : Levoca vol.586, (2014) p.162-165 ISBN:\*\*\*\*\* ISSN:1013-9826 Doi:10.4028/www.scientific.net/KEM.586.162
- 19) 2017 [1] SEJČ, P. et al. Stability of Ni / TiB<sub>2</sub> coating on CuCrZr electrodes for resistance spot welding galvanized steel sheet In: Manufacturing Technology Vol. 17, no. 4 (2017), p. 570-576 ISSN: 1213-2489 DB: Scopus
- 20) 2020 [3] REYAD, Masud Mohammad Numerical Analysis of Resistance Spot Welded Joints Under Static Load In: International Journal of Innovative Science and Research Technology Vol. 5, no. 3 (2020), p. 444-449 ISSN: 2456-2165

ADC004 [125812] **Inhomogeneous plastic deformation of tinplates under uniaxial stress state** / Emil Spišák ... [et al.] - 2012.In: Chemické listy. Vol. 106, no. Symposia (2012), p. s537-s540. - ISSN 0009-

2770.

[SPIŠÁK, Emil (20%) - SLOTA, Ján (20%) - MAJERNÍKOVÁ, Janka (20%) - KAŠČÁK, Ľuboš (20%) - MALEGA, Peter (20%)]

**Ohlasy:**

- 21) 2013 [1] SZARKOVÁ, V. et al. Influence of longitudinal cold rolling on the surface topography of low carbon structural steel In: Tehnički vjesnik Vol. 20, no. 4 (2013), p. 705-709 ISSN: 1330-3651 DB: Scopus
- 22) 2013 [01] SZARKOVA, Veronika, VALICEK, Jan, VLADO, Martin et al.: INFLUENCE OF LONGITUDINAL COLD ROLLING ON THE SURFACE TOPOGRAPHY OF LOW CARBON STRUCTURAL STEEL In: TEHNICKI VJESNIK-TECHNICAL GAZETTE vol.20, no.4 (2013) p.705-709 ISSN:1330-3651 eISSN:1848-6339
- 23) 2014 [1] HLEBOVÁ, S., AMBRIŠKO, L., PEŠEK, L. Strain measurement in local volume by non-contact videoextensometric technique on ultra high strength steels In: Key Engineering Materials Vol. 586 (2014), p. 129-132 ISSN: 1013-9826 DB: Scopus
- 24) 2014 [1] ZUBKO, P. et al. Changes in mechanical properties and microstructure after quasi-static and dynamic tensile loading In: Materials Science Forum Vol. 782 (2014), p. 215-218 ISSN: 0255-5476 DB: Scopus
- 25) 2014 [1] VALÍČEK, J., et al. Method of Maintaining the Required Values of Surface Roughness and Prediction of Technological Conditions for Cold Sheet Rolling In: Measurement Science Review Vol. 14, no. 3 (2014), p. 144-151 ISSN: 1335-8871 DB: WOS
- 26) 2016 [1] PRISLUPČÁK, Marek, PANDA, Anton Comparison and analysis of the flow rate In: Key Engineering Materials Vol. 669 (2016), p. 197-204 ISSN: 1013-9826 DB: Scopus
- 27) 2016 [1] PANDA, Anton, PRISLUPČÁK, Marek, JURKO, Jozef Vibration and experimental comparison of machining process In: Key Engineering Materials Vol. 669 (2016), p. 179-186 ISSN: 1013-9826 DB: Scopus
- 28) 2016 [01] SPISAK, Emil, MAJERNIKOVA, Janka, BOGDAN, David et al.: INHOMOGENEOUS PLASTIC DEFORMATION AND FRACTURE OF DOUBLE REDUCED THIN PLATES In: TEHNICKI VJESNIK-TECHNICAL GAZETTE vol.23, no.2 (2016) p.337-342 ISSN:1330-3651 eISSN:1848-6339 Doi:10.17559/TV-20131104141055
- 29) 2016 [01] SPISAK, Emil, MAJERNIKOVA, Janka, SPISAKOVA, Emilia Dulova et al.: ANALYSIS OF PLASTIC DEFORMATION OF DOUBLE REDUCED SHEETS In: ACTA MECHANICA ET AUTOMATICA vol.10, no.4 (2016) p.271-274 ISSN:1898-4088 eISSN:2300-5319 Doi:10.1515/ama-2016-0041
- 30) 2019 [01] SPISAK, E., MAJERNIKOVA, J., SLOTA, J. et al.: Numerical and experimental study of strain distribution of trip steel sheet using hydraulic bulge test In: 38TH INTERNATIONAL DEEP DRAWING RESEARCH GROUP ANNUAL CONFERENCE (IDDRG 2019) : Enschede vol.651, (2019) ISBN:\*\*\*\*\* ISSN:1757-8981 Doi:10.1088/1757-899X/651/1/012090

ADC005 [125831] **Joining materials used in car body production by clinching** / Emil Spišák, Ľuboš Kaščák, Jacek Mucha - 2012. In: Chemické listy. Vol. 106, no. S (2012), p. 541 - 544. - ISSN 0009-2770 [SPIŠÁK, Emil (45%) - KAŠČÁK, Ľuboš (45%) - MUCHA, Jacek (10%)]

**Ohlasy:**

- 31) 2013 [01] BARTCZAK, Bartosz, MUCHA, Jacek, TRZEPIECINSKI, Tomasz: Stress distribution in adhesively-bonded joints and the loading capacity of hybrid joints of car body steels for the automotive industry In: INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES vol.45, (2013) p.42-52 ISSN:0143-7496 eISSN:1879-0127 Doi:10.1016/j.ijadhadh.2013.03.012
- 32) 2014 [1] HLEBOVÁ, Stanislava, PEŠEK, Ladislav Toughness of ultra high strength steel sheets In: Materials Science Forum Vol. 782 (2014), p. 57-60 ISSN: 0255-5476 DB: Scopus
- 33) 2014 [01] MUCHA, Jacek, WITKOWSKI, Waldemar: The clinching joints strength analysis in the aspects of changes in the forming technology and load conditions In: THIN-WALLED STRUCTURES vol.82, (2014) p.55-66 ISSN:0263-8231 eISSN:1879-3223 Doi:10.1016/j.tws.2014.04.001
- 34) 2018 [1] BABALO, Vahid, FAZLI, Ali, SOLTANPOUR, Mahdi Electro-Hydraulic Clinching: A novel high speed joining process In: Journal of Manufacturing Processes Vol. 35 (2018), p. 559-569 ISSN: 1526-6125 DB: WOS
- 35) 2018 [1] ZHANG, Yue et al. Study on failure mechanism of mechanical clinching in aluminium sheet materials In: The International Journal of Advanced Manufacturing Technology Vol. 96, no. 9-12 (2018), p. 3057–3068 ISSN: 0268-3768 DB: WOS
- 36) 2019 [1] LEI, Lei et al. Effect of foam copper interlayer on the mechanical properties and fretting wear of sandwich clinched joints In: Journal of Materials Processing Technology Vol. 274 (2019), article no. 116285 ISSN: 0924-0136 DB: WOS
- 37) 2019 [1] BABALO, Vahid - SOLTANPOUR, Mahdi - FAZLI, Ali High speed circular hemming; a novel joining process for thin and lowductile sheets In: Thin-Walled Structures Vol. 142 (2019), p. 98-115 ISSN: 0263-8231 DB: WOS
- 38) 2019 [01] BABALO, Vahid, SOLTANPOUR, Mandi, FAZLI, Ali: High speed circular hemming; a novel joining process for thin and low-ductile sheets In: THIN-WALLED STRUCTURES vol.142, (2019) p.98-115 ISSN:0263-8231 eISSN:1879-3223 Doi:10.1016/j.tws.2019.04.059
- 39) 2022 [01] KASCAK, Lubos, CMOREJ, Denis, SLOTA, Jan et al.: NUMERICAL AND EXPERIMENTAL STUDIES ON CLINCH-BONDED HYBRID JOINING OF STEEL SHEET DX53D+Z In: ACTA METALLURGICA SLOVACA vol.28, no.4 (2022) p.219-223 ISSN:1335-1532 eISSN:1338-1156 Doi:10.36547/ams.28.4.1657

ADC006 [142378] **The experimental analysis of forming and strength of Clinch Riveting sheet metal joint made of different materials** / Jacek Mucha, Ľuboš Kaščák, Emil Spišák - 2013. In: Advances in Mechanical Engineering. (2013), p. 1-11. - ISSN 1687-8132 [MUCHA, Jacek (10%) - KAŠČÁK, Ľuboš (45%) - SPIŠÁK, Emil (45%)]

**Ohlasy:**

- 40) 2014 [1] MESCHUT, G., JANZEN, V., OLFERMANN, T. Innovative and Highly Productive Joining Technologies for Multi-Material Lightweight Car Body Structures In: Journal of Materials Engineering and Performance Vol. 23, no. 5 (2014), p. 1515-1523 ISSN: 1059-9495 DB: Scopus
- 41) 2014 [1] HE, Xiaocong, LIU, Fulong, XING, Baoying et al. Numerical and experimental investigations of extensible die clinching In: The International Journal of Advanced Manufacturing Technology Vol. 74, no. 9-12 (2014), p. 1229-1236 ISSN: 0268-3768 DB: Scopus
- 42) 2014 [3] GRUJICIC, Mica, SNIPES, Jennifer, RAMASWAMI, Subrahmanian et al. Process modeling, joint-property characterization and construction of joint connectors for mechanical fastening by self-piercing riveting In: Multidiscipline Modeling in Materials and Structures Vol. 10, no. 4 (2014), p. 631-658 ISSN: 1573-6105
- 43) 2014 [1] GRUJICIC, M. et al. Process modeling, joint-property characterization and construction of joint connectors for mechanical fastening by self-piercing riveting In: Multidiscipline Modeling in Materials and Structures Vol. 10, no. 4 (2014), p. 631-658 ISSN: 1573-6105 DB: Scopus
- 44) 2014 [01] MUCHA, Jacek, WITKOWSKI, Waldemar: The clinching joints strength analysis in the aspects of changes in the forming technology and load conditions In: THIN-WALLED STRUCTURES vol.82, (2014) p.55-66 ISSN:0263-8231 eISSN:1879-3223 Doi:10.1016/j.tws.2014.04.001
- 45) 2015 [1] HE, X., et al. Self-piercing riveting of similar and dissimilar titanium sheet materials In: International Journal of Advanced Manufacturing Technology Vol. 80, no. 9-12 (2015), p. 2105-2115. ISSN: 0268-3768 DB: Scopus
- 46) 2015 [1] HE, X., et al. Mechanical properties of extensible die clinched joints in titanium sheet materials In: Materials Design Vol. 71 (2015), p. 26-35 ISSN: 0264-1275 DB: Scopus
- 47) 2015 [1] LAMBIASE, Francesco Joinability of different thermoplastic polymers with aluminium AA6082 sheets by mechanical clinching In: International Journal of Advanced Manufacturing Technology Vol. 80, no. 9-12 (2015), p. 1995-2006 ISSN: 0268-3768 DB: Scopus
- 48) 2015 [1] HE, X. et al. Self-piercing riveting of similar and dissimilar metal sheets of aluminum alloy and copper alloy In: Materials Design Vol. 65, no. 2015 (2015), p. 923-933 ISSN: 0264-1275 DB: Scopus
- 49) 2015 [1] LAMBIASE, F., DI ILIO, A., PAOLETTI, A. Joining aluminium alloys with reduced ductility by mechanical clinching In: International Journal of Advanced Manufacturing Technology Vol. 77, no. 5-8 (2015), p. 1295-1304 ISSN: 0268-3768 DB: Scopus
- 50) 2015 [01] LAMBIASE, F.: Clinch joining of heat-treatable aluminum AA6082-T6 alloy under warm conditions In: JOURNAL OF MATERIALS PROCESSING TECHNOLOGY vol.225, (2015) p.421-432 ISSN:0924-0136 Doi:10.1016/j.jmatprotec.2015.06.022
- 51) 2015 [01] MUCHA, Jacek: The failure mechanics analysis of the solid self-piercing riveting joints In: ENGINEERING FAILURE ANALYSIS vol.47, (2015) p.77-88 ISSN:1350-6307 eISSN:1873-



1961 Doi:10.1016/j.engfailanal.2014.10.008

- 52) 2016 [1] CHEN, Chao et al. An experimental study on the compressing process for joining Al6061 sheets In: *Thin-Walled Structures* Vol. 108 (2016), p. 56-63 ISSN: 0263-8231 DB: WOS
- 53) 2016 [1] LAMBIASE, F., DI ILIO, A. Damage analysis in mechanical clinching: Experimental and numerical study In: *Journal of Materials Processing Technology* Vol. 230 (2016), p. 109-120 ISSN: 0924-0136 DB: WOS
- 54) 2016 [1] ESHTAYEH, M.M., HRAIRI, M. Recent and future development of the application of finite element analysis in clinching process In: *International Journal of Advanced Manufacturing Technology* Vol. 84, no. 9-12 (2016), p. 2589-2608 ISSN: 0268-3768 DB: WOS
- 55) 2016 [01] KRZTON, H., MUCHA, J., WITKOWSKI, W.: The Application of Laboratory X-Ray Micro-Diffraction to Study the Effects of Clinching Process in Steel Sheets In: *ACTA PHYSICA POLONICA A : Krynica Zdroj* vol.130, no.4 (2016) p.985-987 ISSN:0587-4246 eISSN:1898-794X Doi:10.12693/APhysPolA.130.985
- 56) 2017 [1] HE, Xiaocong Clinching for sheet materials In: *Science and Technology of Advanced Materials* Vol. 18, no. 1 (2017), p. 381-405 ISSN: 1468-6996 DB: WOS
- 57) 2017 [1] CHEN, C. et al. Experimental study on the height-reduced joints to increase the cross-tensile strength In: *International Journal of Advanced Manufacturing Technology* Vol. 91, no. 5-8 (2017), p. 2655-2662 ISSN: 0268-3768 DB: WOS
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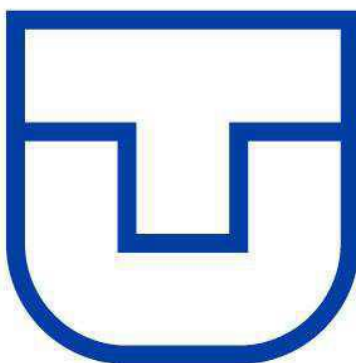
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Doi:10.3390/app13063543
- 516) 2023 [01] VARGA, Jan, IZOL, Peter, KASCAK, Lubos et al.: COMPARISON OF FINISHING MILLING STRATEGIES USING TOPOGRAPHY OF THE MACHINED SURFACE In: ACTA METALLURGICA SLOVACA vol.29, no.1 (2023) p.50-55 ISSN:1335-1532 eISSN:1338-1156  
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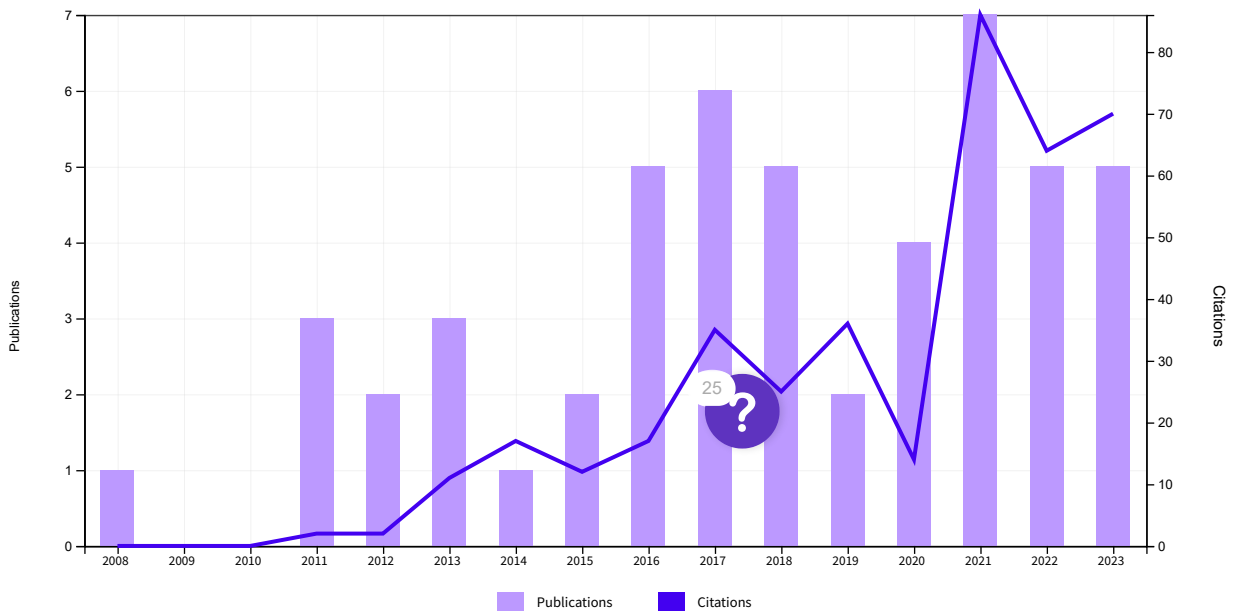
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
36 14 86 64 70 30.08 391

🔍 1

Joining the car-body sheets using clinching process with various thickness and mechanical property arrangements

[Mucha, J;](#) [Kascák, L](#) and [Spisák, E](#)



	2011   <a href="#">ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING</a> 11 (1) , pp.135-148							
⊖ 2	<p>The Experimental Analysis of Forming and Strength of Clinch Riveting Sheet Metal Joint Made of Different Materials</p> <p><a href="#">Mucha, J.</a>; <a href="#">Kascák, L.</a> and <a href="#">Spisák, E.</a></p> <p>2013   <a href="#">ADVANCES IN MECHANICAL ENGINEERING</a></p>	3	0	8	8	4	5.09	56
⊖ 3	<p>FINITE ELEMENT CALCULATION OF CLINCHING WITH RIGID DIE OF THREE STEEL SHEETS</p> <p><a href="#">Kascák, L.</a>; <a href="#">Spisák, E.</a>; (...); <a href="#">Mucha, J.</a></p> <p>Jul 2017   <a href="#">STRENGTH OF MATERIALS</a> 49 (4) , pp.488-499</p>	4	3	12	4	2	3.71	26
⊖ 4	<p>Wear Study of Mechanical Clinching Dies During Joining of Advanced High-Strength Steel Sheets</p> <p><a href="#">Kascák, L.</a>; <a href="#">Mucha, J.</a>; (...); <a href="#">Kubík, R.</a></p> <p>International Scientific Conference on Progressive Technologies and Materials in Mechanical Engineering (PRO-TECH-MA)</p> <p>Sep 2017   <a href="#">STRENGTH OF MATERIALS</a> 49 (5) , pp.726-737</p>	6	0	9	2	4	3.29	23
⊖ 5	<p>FEM Analysis of Clinching Tool Load in a Joint of Dual-Phase Steels</p> <p><a href="#">Kascák, L.</a>; <a href="#">Spisák, E.</a>; (...); <a href="#">Mucha, J.</a></p> <p>International Conference on Progressive Technologies and Materials in Mechanical Engineering (PRO-TECH-MA)</p> <p>Jul 2016   <a href="#">STRENGTH OF MATERIALS</a> 48 (4) , pp.533-539</p>	4	0	5	3	2	2.25	18
⊖ 6	<p>CLINCHRIVET AS AN ALTERNATIVE METHOD TO RESISTANCE SPOT WELDING</p> <p><a href="#">Kascák, L.</a>; <a href="#">Spisák, E.</a> and <a href="#">Mucha, J.</a></p> <p>Jun 2013   <a href="#">ACTA MECHANICA ET AUTOMATICA</a> 7 (2) , pp.79-82</p>	2	1	3	4	3	1.64	18
⊖ 7	<p>Research on the Influence of the AW 5754 Aluminum Alloy State Condition and Sheet Arrangements with AW 6082 Aluminum Alloy on the Forming Process and Strength of the ClinchRivet Joints</p> <p><a href="#">Mucha, J.</a>; <a href="#">Kascák, L.</a> and <a href="#">Witkowski, W.</a></p> <p>Jun 2021   <a href="#">MATERIALS</a> 14 (11)</p> <p> Enriched Cited References</p>	0	0	5	4	5	4.67	14
⊖ 8	<p>Modeling of Friction Phenomena of Ti-6Al-4V Sheets Based on Backward Elimination Regression and Multi-Layer Artificial Neural Networks</p> <p><a href="#">Trzepiecincki, T.</a>; <a href="#">Szpunar, M.</a> and <a href="#">Kascák, L.</a></p> <p>May 2021   <a href="#">MATERIALS</a> 14 (10)</p> <p> Enriched Cited References</p>	0	0	5	4	4	4.33	13
⊖ 9	<p>Joining three car body steel sheets by clinching method</p> <p><a href="#">Kascák, L.</a>; <a href="#">Spisák, E.</a> and <a href="#">Majerníková, J.</a></p>	0	2	3	3	1	1.38	11

	Jan 2016   <a href="#">OPEN ENGINEERING</a> 6 (1), pp.566-573							
⊖ 10	<p>Optimization of resistance spot welding parameters for microalloyed steel sheets</p> <p><a href="#">Vinás, J</a>; <a href="#">Kascák, L</a> and <a href="#">Gres, M</a></p> <p>Jan 2016   <a href="#">OPEN ENGINEERING</a> 6 (1), pp.504-510</p>	1	1	3	1	3	1.38	11
⊖ 11	<p>Central Composite Design Optimisation in Single Point Incremental Forming of Truncated Cones from Commercially Pure Titanium Grade 2 Sheet Metals</p> <p><a href="#">Szpunar, M</a>; <a href="#">Ostrowski, R</a>; (...); <a href="#">Kascák, L</a></p> <p>Jul 2021   <a href="#">MATERIALS</a> 14 (13)</p> <p> Enriched Cited References</p>	0	0	3	5	2	3.33	10
⊖ 12	<p>In Vitro Degradation of Specimens Produced from PLA/PHB by Additive Manufacturing in Simulated Conditions</p> <p><a href="#">Balogová, AF</a>; <a href="#">Trebunová, M</a>; (...); <a href="#">Zivcák, J</a></p> <p>May 2021   <a href="#">POLYMERS</a> 13 (10)</p> <p> Enriched Cited References</p>	0	0	2	2	6	3.33	10
⊖ 13	<p>Fatigue Life Assessment of Refill Friction Stir Spot Welded Alclad 7075-T6 Aluminium Alloy Joints</p> <p><a href="#">Kubit, A</a>; <a href="#">Drabczyk, M</a>; (...); <a href="#">Slota, J</a></p> <p>May 2020   <a href="#">METALS</a> 10 (5)</p>	0	0	6	2	2	2.5	10
⊖ 14	<p>JOINING MATERIALS USED IN CAR BODY PRODUCTION BY CLINCHING</p> <p><a href="#">Spisák, E</a>; <a href="#">Kascák, L</a> and <a href="#">Mucha, J</a></p> <p>2012   <a href="#">CHEMICKE LISTY</a> 106, pp.S541-S544</p>	2	0	0	1	0	0.67	8
⊖ 15	<p>The Effect of the Machining Strategy on the Surface Accuracy When Milling with a Ball End Cutting Tool of the Aluminum Alloy AlCu4Mg</p> <p><a href="#">Varga, J</a>; <a href="#">Tóth, T</a>; (...); <a href="#">Spisák, E</a></p> <p>Oct 2022   <a href="#">APPLIED SCIENCES-BASEL</a> 12 (20)</p> <p> Enriched Cited References</p>	0	0	0	0	6	3	6
⊖ 16	<p>Wear of Shaped Surfaces of PVD Coated Dies for Clinching</p> <p><a href="#">Dzupon, M</a>; <a href="#">Kascák, L</a>; (...); <a href="#">Majerníková, J</a></p> <p>Nov 2017   <a href="#">METALS</a> 7 (11)</p>	2	0	2	1	1	0.86	6
⊖ 17	<p>INHOMOGENEOUS PLASTIC DEFORMATION OF TINPLATES UNDER UNIAXIAL STRESS STATE</p> <p><a href="#">Spisák, E</a>; <a href="#">Slota, J</a>; (...); <a href="#">Malega, P</a></p> <p>2012   <a href="#">CHEMICKE LISTY</a> 106, pp.S537-S540</p>	1	0	0	0	0	0.5	6

<p>18 <a href="#">Spisák, E; Kascák, L and Vinás, J</a> 8th International Scientific - Technical Conference of Material Engineering Practice 2011   <a href="#">CHEMICKE LISTY</a> 105 , pp.S488-S490</p>	0	0	1	0	1	0.46	6
<p>19 Plastic Formed and Spot Welded Joints Strength of S350GD+Z Steel <a href="#">Kascák, L; Mucha, J and Witkowski, W</a> Dec 2018   <a href="#">TEHNICKI VJESNIK-TECHNICAL GAZETTE</a> 25 (6) , pp.1623-1630</p>	0	1	2	1	1	0.83	5
<p>20 THE EVALUATION OF PROPERTIES OF MECHANICALLY CLINCHED JOINTS MADE OF FERROUS AND NON-FERROUS MATERIALS <a href="#">Kascák, L; Spisak, E; (...); Majerníková, J</a> Mar 2018   <a href="#">ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</a> 12 (1) , pp.162-170</p>	1	0	0	2	2	0.83	5
<p>21 INFLUENCE OF CUTTING ON THE PROPERTIES OF CLIPPINGS FROM ELECTRICAL SHEETS <a href="#">Spisák, E; Majerníková, J; (...); Slotá, J</a> 2015   <a href="#">ACTA METALLURGICA SLOVACA</a> 21 (4) , pp.302-310</p>	1	0	0	0	0	0.56	5
<p>22 Possibilities of using welding-on technologies in crane wheel renovation <a href="#">Vinás, J and Kascák, L</a> Apr 2008   <a href="#">BULLETIN OF MATERIALS SCIENCE</a> 31 (2) , pp.125-131</p>	1	0	0	0	0	0.31	5
<p>23 Friction Behaviour of 6082-T6 Aluminium Alloy Sheets in a Strip Draw Tribological Test <a href="#">Trzepiecincki, T; Slotá, J; (...); Vojtko, M</a> Mar 2023   <a href="#">MATERIALS</a> 16 (6)</p> <p> Enriched Cited References</p>	0	0	0	0	3	3	3
<p>24 3D EVALUATION OF THE TOPOGRAPHY OF THE SURFACE BY ABRASIVE WATER JET MACHINING TECHNOLOGY <a href="#">Mital, G; Spisak, E; (...); Jezny, T</a> Oct 2021   <a href="#">MM SCIENCE JOURNAL</a> 2021 , pp.4847-4852</p>	0	0	2	0	1	1	3
<p>25 JOINING THE COMBINATION OF AHSS STEEL AND HSLA STEEL BY RESISTANCE SPOT WELDING <a href="#">Kascák, L; Spisák, E and Gajdos, J</a> Jun 2013   <a href="#">ACTA MECHANICA ET AUTOMATICA</a> 7 (2) , pp.75-78</p>	0	0	1	0	1	0.27	3
<p>26 A Comparative Study of Hardfacing Deposits Using a Modified Tribological Testing Strategy <a href="#">Slotá, J; Kubiš, A; (...); Kascák, L</a></p>	0	0	0	0	2	1	2

⊖	Aug 2022   <a href="#">LUBRICANTS</a> 10 (8)							
	<a href="#">☰</a> Enriched Cited References							
⊖ 27	<b>Influence of Ball-End Milling Strategy on the Accuracy and Roughness of Free Form Surfaces</b> <a href="#">Gresová, Z; Izol, P; (...); Demko, M</a> May 2022   <a href="#">APPLIED SCIENCES-BASEL</a> 12 (9)	0	0	0	0	2	1	2
⊖ 28	<b>Experimental and Numerical Thickness Analysis of TRIP Steel under Various Degrees of Deformation in Bulge Test</b> <a href="#">Spisák, E; Majerníková, J; (...); Bidulsky, R</a> Mar 2022   <a href="#">MATERIALS</a> 15 (6)	0	0	0	0	2	1	2
	<a href="#">☰</a> Enriched Cited References							
⊖ 29	<b>Joining the High-Strength Steel Sheets Used in Car Body Production</b> <a href="#">Kascák, L; Cmorej, D; (...); Slotá, J</a> 2021   <a href="#">ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</a> 15 (1), pp.184-196	0	0	1	1	0	0.67	2
⊖ 30	<b>UTILIZATION OF ANALYTICAL METHODS FOR THE FAILURE ANALYSIS OF INJECTION MOLDED PART</b> <a href="#">Gajdos, J; Slotá, J; (...); Jachowicz, T</a> 2020   <a href="#">ACTA METALLURGICA SLOVACA</a> 26 (3), pp.122-125	0	0	1	0	1	0.5	2
⊖ 31	<b>THE IMPACT OF SHEAR GAP SIZE ON THE QUALITY OF THE SHEARED SURFACE IN ELECTRICAL STEEL SHEET BLANKING</b> <a href="#">Spisák, E; Majerníková, J; (...); Mulidrán, P</a> 2020   <a href="#">ACTA METALLURGICA SLOVACA</a> 26 (2), pp.49-53	0	0	2	0	0	0.5	2
	25							
⊖ 32	<b>ANALYSIS OF CUTTING SURFACE DURING CUTTING OF ELECTRIC SHEETS</b> <a href="#">Spisák, E; Kascák, L; (...); Dzupon, M</a> Jul 2017   <a href="#">STRENGTH OF MATERIALS</a> 49 (4), pp.605-611	1	1	0	0	0	0.29	2
⊖ 33	<b>ANALYSIS OF PLASTIC DEFORMATION OF DOUBLE REDUCED SHEETS</b> <a href="#">Spisak, E; Majernikova, J; (...); Kascak, L</a> Dec 2016   <a href="#">ACTA MECHANICA ET AUTOMATICA</a> 10 (4), pp.271-274	0	0	1	1	0	0.25	2
⊖ 34	<b>FORMABILITY OF THIN SHEETS FROM ALUMINUM ALLOYS</b> <a href="#">Spisák, E; Majerníková, J and Kascák, L</a> Dec 2016   <a href="#">ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</a> 10 (32), pp.248-253	0	1	0	0	0	0.25	2
		0	0	0	0	2	0.2	2
	<b>Effect of Welding Parameters on the Quality of Spot Welds Combining AHSS Steel and HSLA Steel</b>							

35	<p><a href="#">Kascák, L</a> and <a href="#">Spisák, E</a> 9th International Conference on Local Mechanical Properties (LMP 2012) 2014   <a href="#">LOCAL MECHANICAL PROPERTIES IX</a> 586 , pp.162-165</p>							
36	<p>SIMULATION TOOL FOR MATERIAL BEHAVIOUR PREDICTION IN ADDITIVE MANUFACTURING <a href="#">Kascák, L</a>; <a href="#">Varga, J</a>; (...); <a href="#">Grande, MA</a> 2023   <a href="#">ACTA METALLURGICA SLOVACA</a> 29 (2) , pp.113-118</p>	0	0	0	0	1	1	1
37	<p>MECHANICAL JOINING OF ALUMINIUM ALLOY SHEETS <a href="#">Kascak, L</a>; <a href="#">Spisak, E</a>; (...); <a href="#">Jezny, T</a> Dec 2020   <a href="#">MM SCIENCE JOURNAL</a> 2020 , pp.4179-4182</p>	0	0	0	0	1	0.25	1
38	<p>Experimental and finite element analysis of the shear cutting process of electrical steel sheets under various process conditions <a href="#">Slota, J</a>; <a href="#">Spisák, E</a>; (...); <a href="#">Majerníková, J</a> 38th Annual Conference of the International-Deep-Drawing-Research-Group (IDDRG) 2019   38TH INTERNATIONAL DEEP DRAWING RESEARCH GROUP ANNUAL CONFERENCE (IDDRG 2019) 651</p>	0	0	0	1	0	0.2	1
39	<p>Research into Plastic Deformation of Double Reduced Sheets <a href="#">Spisák, E</a>; <a href="#">Majerníková, J</a>; (...); <a href="#">Kascák, L</a> Feb 2018   <a href="#">METALS</a> 8 (2)</p>	0	0	0	1	0	0.17	1
40	<p>FAILURE OF PHYSICAL VAPOUR DEPOSITION COATING ZIRCONIUM NITRIDE ON THE PUNCH OF CLINCHING TOOL <a href="#">Dzupon, M</a>; <a href="#">Kascák, L</a>; (...); <a href="#">Kubík, R</a> Jun 2017   <a href="#">ACTA MECHANICA ET AUTOMATICA</a> 11 (2) , pp.143-149</p>	0	0	0	0	0	0.14	1
41	<p>QUALITY EVALUATION OF RESISTANCE SPOT WELDS OF HOT-DIP GALVANIZED SHEETS IN CORROSIVE ENVIRONMENT <a href="#">Kascák, L</a>; <a href="#">Brezinová, J</a>; (...); <a href="#">Vínás, J</a> 7th International Conference Local Mechanical Properties (LMV) 2011   <a href="#">CHEMICKE LISTY</a> 105 , pp.S709-S712</p>	0	0	0	0	0	0.08	1
42	<p>Clinching of High-Strength Steel Sheets with Local Preheating <a href="#">Dzupon, M</a>; <a href="#">Kascák, L</a>; (...); <a href="#">Spisák, E</a> Jul 2023   <a href="#">APPLIED SCIENCES-BASEL</a> 13 (13)</p> <p> Enriched Cited References</p>	0	0	0	0	0	0	0
43	<p>The effect of RFSSW parameters on load capacity of EN AW-6082-T6 aluminum alloy and AlCu bimetallic joints <a href="#">Kubít, A</a>; <a href="#">Faes, K</a>; (...); <a href="#">Kascak, L</a> Jul 2023   May 2023 (Early Access)   <a href="#">INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY</a> 127 (3-4) , pp.1703-1719</p>	0	0	0	0	0	0	0

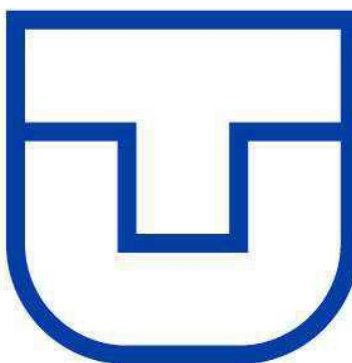
<p>⊖ 44</p> <p>COMPARISON OF FINISHING MILLING STRATEGIES USING TOPOGRAPHY OF THE MACHINED SURFACE</p> <p><a href="#">Varga, J</a>; <a href="#">Izol, P</a>; (...); <a href="#">Kubit, A</a></p> <p>2023   <a href="#">ACTA METALLURGICA SLOVACA</a> 29 (1) , pp.50-55</p>	0	0	0	0	0	0	0	0
<p>⊖ 45</p> <p>NUMERICAL AND EXPERIMENTAL STUDIES ON CLINCH-BONDED HYBRID JOINING OF STEEL SHEET DX53D+Z</p> <p><a href="#">Kascák, L</a>; <a href="#">Cmorej, D</a>; (...); <a href="#">Varga, J</a></p> <p>2022   <a href="#">ACTA METALLURGICA SLOVACA</a> 28 (4) , pp.219-223</p>	0	0	0	0	0	0	0	0
<p>⊖ 46</p> <p>INFLUENCE OF PLASTIC DEFORMATION INHOMOGENEITY ON CORROSION RESISTANCE OF TIN PLATES</p> <p><a href="#">Spisák, E</a>; <a href="#">Majerníková, J</a>; (...); <a href="#">Slota, J</a></p> <p>Jan 2021   <a href="#">METALURGIJA</a> 60 (1-2) , pp.67-70</p>	0	0	0	0	0	0	0	0
<p>⊖ 47</p> <p>Numerical and experimental study of strain distribution of trip steel sheet using hydraulic bulge test</p> <p><a href="#">Spisák, E</a>; <a href="#">Majerníková, J</a>; (...); <a href="#">Kascák, L</a></p> <p>38th Annual Conference of the International-Deep-Drawing-Research-Group (IDDRG)</p> <p>2019   38TH INTERNATIONAL DEEP DRAWING RESEARCH GROUP ANNUAL CONFERENCE (IDDRG 2019)</p> <p>651</p>	0	0	0	0	0	0	0	0
<p>⊖ 48</p> <p>Analysis of the Change in Thickness of the Thin Double Reduced Steel Sheets by Drawing of Cups</p> <p><a href="#">Majerníková, J</a>; <a href="#">Spisák, E</a>; (...); <a href="#">Slota, J</a></p> <p>Dec 2018   <a href="#">ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</a> 12 (4) , pp.28-34</p>	0	0	0	0	0	0	0	0
<p>⊖ 49</p> <p>FORMING ANALYSIS OF CONTINUOUSLY ANNEALED, DOUBLE REDUCED STEEL SHEETS</p> <p><a href="#">Spisák, E</a>; <a href="#">Majerníková, J</a>; (...); <a href="#">Slota, J</a></p> <p>Sep 2018   <a href="#">ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL</a> 12 (3) , pp.168-172</p>	0	0	0	0	0	0	0	0
<p>⊖ 50</p> <p>PREFACE</p> <p><a href="#">Kascák, L</a>; <a href="#">Mucha, J</a> and <a href="#">Kharchenko, V</a></p> <p>Jul 2017   <a href="#">STRENGTH OF MATERIALS</a> 49 (4) , pp.487-487</p>	0	0	0	0	0	0	0	0

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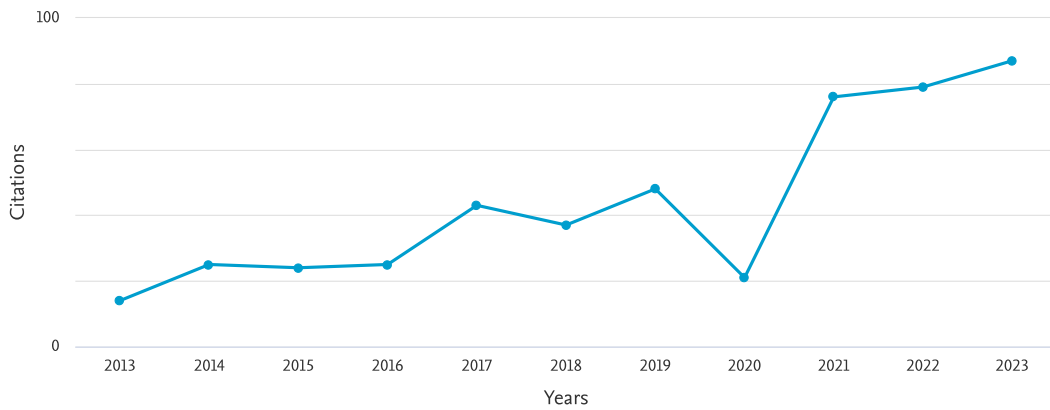
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