TECHNICKÁ UNIVERZITA V KOŠICIACH

STROJNÍCKA FAKULTA

Katedra biomedicínskeho inžinierstva a merania

ZOZNAM PÔVODNÝCH PUBLIKOVANÝCH VEDECKÝCH PRÁC, ODBORNÝCH PRÁC, UČEBNÍC, UČEBNÝCH TEXTOV

Ing. Marek Schnitzer, PhD.

Košice 2023

Prehľad publikačnej činnosti

Dátum generovania výstupu: 23.02.2023, 09:13:49

Záznamy v kategóriách do 31.1.2022

Skupina A2 (do 31.1.2022) - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, CAA, CAB, EAI, EAJ, FAI)
Počet záznamov: 4

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (2)
BCI - Skriptá a učebné texty (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: 8

ADC - Vedecké práce v zahraničných karentovaných časopisoch (6)
ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (2)

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: 37

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (1)
ADF - Vedecké práce v domácich nekarentovaných časopisoch (3)
AFC - Publikované príspevky na zahraničných vedeckých konferenciách (4)
AFD - Publikované príspevky na domácich vedeckých konferenciách (27)
BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)
BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (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: 1

DAI - Dizertačné a habilitačné práce (1)

Záznamy v kategóriách od 1.2.2022

Skupina O

O2- odborný výstup publikačnej činnosti ako časť knižnej publikácie alebo zborníka kapitola, príspevok, abstrakt, abstrakt z podujatia, poster z podujatia, príspevok z podujatia, recenzia, heslo (1)

Skupina V

V2 - vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka – kapitola, príspevok, abstrakt, abstrakt z podujatia, poster z podujatia, príspevok z podujatia (8)
V3 - vedecký výstup publikačnej činnosti z časopisu – abstrakt, článok, abstrakt z podujatia, poster z podujatia, článok z podujatia (8)

Počet záznamov spolu: 69

Menný zoznam publikácií:

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (2)

300010 ACB 2021 **The Basics of Biology for Biomedical Engineering** / Marianna Trebuňová ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2021. - 223 s. [print]. - ISBN 978-80-553-3945-0. [TREBUŇOVÁ, Marianna (43%) - SCHNITZER, Marek (21%) - BAČENKOVÁ, Darina (15%) - ŽIVČÁK, Jozef (21%)]

301509 ACB 2021 **Biomechanika človeka I.** / Jozef Živčák ... [et al.] - 3. dopl. vyd. - Košice : Technická univerzita v Košiciach - 2021. - 456 s. [print]. - ISBN 978-80-553-4032-6. [ŽIVČÁK, Jozef (10%) - HUDÁK, Radovan (5%) - TÓTH, Teodor (16%) - RAJŤÚKOVÁ, Viktória (16%) - MICHALÍKOVÁ, Monika (16%) - MAJERNÍK, Jaroslav (5%) - FRANKOVSKÝ, Peter (16%) - SCHNITZER, Marek (16%)]

ADC - Vedecké práce v zahraničných karentovaných časopisoch (6)

196061 ADC 2018 **Determination of geometrical and viscoelastic properties of PLA/PHB samples made by additive manufacturing for urethral substitution** / Alena Findrik Balogová ... [et al.] Spôsob prístupu: http://doi.org/10.1016/j.jbiotec.2018.08.019... - 2018. In: Journal of Biotechnology : Reviews in molecular biotechnology. - Amsterdam (Holandsko) : Elsevier B.V. č. 284 (2018), s. 123-130 [print]. - ISSN 0168-1656 [FINDRIK BALOGOVÁ, Alena (20%) - HUDÁK, Radovan (20%) - TÓTH, Teodor (10%) - SCHNITZER, Marek (10%) - FERANC, Jozef (10%) - BAKOŠ, Dušan (10%) - ŽIVČÁK, Jozef (20%)]
WOS;SCOPUS;CCC

203731 ADC 2018 **Metabolites of Tryptophane and Phenylalanine as Markers of Small Bowel Ischemia-Reperfusion Injury** / Jana Mašlanková ... [et al.] Spôsob prístupu: https://www.degruyter.com/view/j/chem.2018.16.issue-1/chem-2018-0076/chem-2018-0076.xml... - 2018. In: Open Chemistry. - Berlín (Nemecko) : De Gruyter Roč. 16, č. 1 (2018), s. 709-715 [online]. - ISSN 2391-5420 (online) [MAŠLANKOVÁ, Jana (15%) - TÓTH, Štefan (15%) - TOMEČKOVÁ, Vladimíra (15%) - TÓTH, Timea (5%) - KATZ, Matan (5%) - VESELÁ, Jarmila (15%) - HERTELYOVÁ, Zdenka (5%) - SCHNITZER, Marek (5%) - MAREKOVÁ, Mária (15%) - ŽIVČÁK, Jozef (5%)]
WOS;SCOPUS;CCC

219735 ADC 2020 **A comparison of experimental compressive axial loading testing with a numerical simulation of topologically optimized cervical implants made by selective laser melting** / Marek Schnitzer ... [et al.] Spôsob prístupu: https://doi.org/10.1016/j.jbiotec.2020.07.010... - 2020. In: Journal of Biotechnology: Reviews in molecular biotechnology. - Amsterdam (Holandsko) : Elsevier č. 322 (2020), s. 33-42 [print, online]. - ISSN 0168-1656 [SCHNITZER, Marek (20%) - HUDÁK, Radovan (5%) - SEDLAČKO, Peter (1%) - RAJŤÚKOVÁ, Viktória (20%) - FINDRIK BALOGOVÁ, Alena (20%) - ŽIVČÁK, Jozef (5%) - KULA, Tomáš (2%) - BOCKO, Jozef (5%) - DŽUPON, Miroslav (5%) - IŽARÍKOVÁ, Gabriela (10%) - KARÁSEK, Michal (1%) - FILIP, Vladimír (1%) - IVANČOVÁ, Eleonóra (1%) - ŠAJTY, Matej (1%) - SZEDLÁK, Peter (2%) - SOMOŠ, Andrej (1%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q2,SCO:Q2

225760 ADC 2021 **Accuracy Verification of an Anatomical Model Manufactured Using Low-Cost Additive Production** / Teodor Tóth ... [et al.] Spôsob prístupu: https://doi.org/10.3390/app11020594... - 2021. In: Applied Sciences. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 11, č. 2 (2021), s. 1-19 [online]. - ISSN 2076-3417 (online) [TÓTH, Teodor (20%) - VARGA, Patrik (5%) - ŠTEFANOVIČ, Branko (5%) - BEDNARČÍKOVÁ, Lucia (10%) - SCHNITZER, Marek (20%) - HUDÁK, Radovan (20%) - ŽIVČÁK, Jozef (20%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q2,SCO:Q2

227898 ADC 2021 **Comparison of Selected Characteristics of SARS-CoV-2, SARS-CoV, and HCoV-NL63** / Darina Bačenková ... [et al.] Spôsob prístupu: https://doi.org/10.3390/app11041497... - 2021. In: Applied Sciences. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 11, č. 4 (2021), s. 1-14 [online]. - ISSN 2076-3417 (online) [BAČENKOVÁ, Darina (20%) - TREBUŇOVÁ, Marianna (20%) - ŠPAKOVSKÁ, Tatiana (5%) - SCHNITZER, Marek (20%) - BEDNARČÍKOVÁ, Lucia (15%) - ŽIVČÁK, Jozef

(20%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q2,SCO:Q2

228597 ADC 2021 **Additive manufacturing of porous ti6al4v alloy: Geometry analysis and mechanical properties testing** / Radoslav Hudák .... [et al.] Spôsob prístupu: https://doi.org/10.3390/app11062611... - 2021. In: Applied Sciences. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 11, č. 6 (2021), s. 1-18 [online]. - ISSN 2076-3417 (online) [HUDÁK, Radovan (20%) - SCHNITZER, Marek (10%) - ORSÁGOVÁ KRÁLOVÁ, Zuzana (10%) - GOREJOVÁ, Radka (10%) - MITRÍK, Lukáš (4%) - RAJŤÚKOVÁ, Viktória (10%) - TÓTH, Teodor (4%) - KOVAČEVIĆ, Mila (4%) - RIZNIČ, Marcel (4%) - ORIŇAKOVÁ, Renáta (4%) - ŽIVČÁK, Jozef (20%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q2,SCO:Q2

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (1)

187274 ADE 2017 **Stability loss of axisymmetric cylindrical shell under axial pressure load** / Tomáš Kula ... [et al.] - 2017. In: American Journal of Mechanical Engineering. Vol. 5, no. 6 (2017), p. 341-344. - ISSN 2328-4110 [KULA, Tomáš (20%) - BOCKO, Jozef (20%) - HUŇADY, Róbert (20%) - SCHNITZER, Marek (20%) - ROSZKOS, Cosmin Stefan (20%)]

ADF - Vedecké práce v domácich nekarentovaných časopisoch (3)

191372 ADF 2016 **Validation of the fixation of Amorhous Magnetic Glass-coated Magnetic for Biomedical Applications** / Irenej Poláček ... [et al.] - 2016. In: Acta Mechanica Slovaca. Roč. 20, č. 4 (2016), s. 54-59. - ISSN 1335-2393 [POLÁČEK, Irenej (25%) - HUDÁK, Radovan (25%) - SCHNITZER, Marek (25%) - ŽIVČÁK, Jozef (25%)]

219415 ADF 2020 **Overview of the Current Methods for Reduction of Artifacts in CT and MR Imaging for Implants made by Additive Manufacturing** / Patrik Varga ... [et al.] Spôsob prístupu: https://doi.org/10.22306/atec.v6i2.83... - 2020. In: Acta Tecnología : International Scientific Journal about Technologies. - Šemša (Slovensko) : 4S go, 2015 Roč. 6, č. 2 (2020), s. 55-58 [online]. - ISSN 2453-675X (online) [VARGA, Patrik (20%) - SCHNITZER, Marek (20%) - TREBUŇOVÁ, Marianna (20%) - HUDÁK, Radovan (20%) - ŽIVČÁK, Jozef (20%)]

224573 ADF 2020 **Pre-clinical Testing of the Polymer Implants Enriched of Ceramic Materials with aim on Rate of Osteointegration in a Rabbit Model** / Lukáš Mitrík ... [et al.] Spôsob prístupu: https://doi.org/10.21496/ams.2020.013... - 2020. In: Acta Mechanica Slovaca : journal published by Faculty of Mechanical Engineering, the Technical University in Košice. - Košice (Slovensko) : Strojnícka fakulta Roč. 24, č. 1 (2020), s. 14-18 [print]. - ISSN 1335-2393 [MITRÍK, Lukáš (13%) - KLÍMOVÁ, Jana (13%) - TREBUŇOVÁ, Marianna (13%) - SCHNITZER, Marek (13%) - HUDÁK, Radovan (13%) - ŽIVČÁK, Jozef (13%) - MOLNÁR, Ladislav (11%) - MODRÁK, Marcel (11%)]

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (3)

194940 ADM 2018 **Numerical simulation and experimental testing of topologically optimized PLA cervical implants made by additive manufacturing methodics** / Jozef Živčák ... [et al.] - 2018. In: Acta Mechanica et Automatica. Vol. 12, no. 2 (2018), p. 141-144. - ISSN 1898-4088 [ŽIVČÁK, Jozef (25%) - HUDÁK, Radovan (25%) - SCHNITZER, Marek (25%) - KULA, Tomáš (25%)]

205550 ADM 2019 **Design, manufacture and testing of rabbit implantation structures for preclinical examinations** / Lukáš Mitrík ... [et al.] - 2019. In: Lékař a Technika : Clinician and Technology. Roč. 49, č. 1 (2019), s. 11-15 [online]. - ISSN 2336-5552 (online) [MITRÍK, Lukáš (20%) - TREBUŇOVÁ, Marianna (20%) - HUDÁK, Radovan (20%) - SCHNITZER, Marek (20%) - ŽIVČÁK, Jozef (20%)]

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (4)

176056 AFC 2016 **Topological optimization of the cervical implant design** / Marek Schnitzer ... [et

al.] - 2016. In: YBERC 2016. - Ostrava : VŠB-TU, 2016 P. 1-5. - ISBN 978-80-248-4000-0 [SCHNITZER, Marek (21%) - HUDÁK, Radovan (16%) - ŽIVČÁK, Jozef (16%) - KULA, Tomáš (16%) - BOCKO, Jozef (16%) - KARÁSEK, Michal (15%)]

184652 AFC 2017 **Aditívna výroba kranioplastík z medicínskeho polyméru peek** / Ondrej Pindroch ... [et al.] - 2017. In: Trendy v biomedicínském inženýrství 2017. - Ostrava : VŠB-TU, 2017 P. 1-7. - ISBN 978-80-248-4099-4 [PINDROCH, Ondrej (40%) - HUDÁK, Radovan (20%) - SCHNITZER, Marek (10%) - SEDLAČKO, Peter (20%) - ŽIVČÁK, Jozef (10%)]

222250 AFC 2020 **Comparison of networking technology in relationship with cellular phone radiation as a potential threat to the population** / Miroslav Kohan ... [et al.] - 2020. In: ELEKTRO 2020 : conference proceedings. - Danvers (USA) : Institute of Electrical and Electronics Engineers s. [1-5] [USB-key]. - ISBN 978-1-7281-7541-6 [KOHAN, Miroslav (50%) - JAKUŠOVÁ, Viera (20%) - JAKUŠ, Ján (5%) - ŽIVČÁK, Jozef (5%) - HUDÁK, Radovan (5%) - SCHNITZER, Marek (5%) - JANČOŠEK, Mário (5%) - IVANKOVÁ, Juliána (5%)]
WOS;SCOPUS

300968 AFC 2021 **Využívanie polymérnych implantátov vyrobených aditívnymi metódami vo veterinárnej praxi** / Alena Findrik Balogová ... [et al.] - 2021. In: Trendy v biomedicínském inženýrství : Recenzovaný sborník příspěvků odborné konference. - Liberec (Česko) : Technická univerzita v Liberci s. 50-55 [print]. - ISBN 978-80-7494-586-1 [FINDRIK BALOGOVÁ, Alena (16%) - SCHNITZER, Marek (12%) - DANCÁKOVÁ, Gabriela (12%) - KOŽÁR, Martin (12%) - STAROŇOVÁ, Radka (12%) - SZEDLÁK, Peter (12%) - ŽIVČÁK, Jozef (12%) - HUDÁK, Radovan (12%)]

AFD - Publikované príspevky na domácich vedeckých konferenciách (27)

155493 AFD 2015 **Experimental measuring of the roughness of test samples made using DMLS technology from the Titanium alloy Ti-6Al-4V** / Marek Schnitzer ... [et al.] Spôsob prístupu: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=14&SID=2FgWS... - 2015. In: SAMI 2015. - Danvers : IEEE, 2015 S. 31-36. - ISBN 978-1-4799-8220-2 [SCHNITZER, Marek (25%) - LISÝ, Martin (25%) - HUDÁK, Radovan (25%) - ŽIVČÁK, Jozef (25%)]

173790 AFD 2016 **Cranioplasty: Approaches towards implatation of custom made implants used nowadays in clinical practice** / Marek Schnitzer, Radovan Hudák, Jozef Živčák - 2016. In: Novus Scientia 2016. - Košice : TU Sjf, 2016 S. 169-175. - ISBN 978-80-553-2495-1 [SCHNITZER, Marek (34%) - HUDÁK, Radovan (33%) - ŽIVČÁK, Jozef (33%)]

177871 AFD 2017 **PLA Implant Design, Structural Analysis and Topological Optimization** / Marek Schnitzer ... [et al.] - 2017. In: Novus Scientia 2017. - Košice : TU, 2017 S. 178-182. - ISBN 978-80-553-3080-8 [SCHNITZER, Marek (20%) - HUDÁK, Radovan (16%) - ŽIVČÁK, Jozef (16%) - KULA, Tomáš (16%) - BOCKO, Jozef (16%) - KARÁSEK, Michal (16%)]

194939 AFD 2018 **Design of custom made medical devices for deformities of the cleft and their production using additive manufacturing technology** / Marek Schnitzer ... [et al. - 2018. In: Novus Scientia 2018. - Košice : TU, 2018 S. 189-194. - ISBN 978-80-553-2907-9 [SCHNITZER, Marek (25%) - JUHÁS, Martin (25%) - HUDÁK, Radovan (25%) - ŽIVČÁK, Jozef (25%)]

197492 AFD 2018 **Desing, manufacture and testing of rabbit implantation structures for preclinical examinations** / Lukáš Mitrík ... [et al.] - 2018. In: YBERC 2018 International Conference Proceedings. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-7 . - ISBN 978-80-8086-271-8 [MITRÍK, Lukáš (20%) - TREBUŇOVÁ, Marianna (20%) - HUDÁK, Radovan (20%) - SCHNITZER, Marek (20%) - ŽIVČÁK, Jozef (20%)]

197497 AFD 2018 **Simulation and experimental testing of topologically optimized cervical implants made by additive manufacturing** / Marek Schnitzer ... [et al.] - 2018. In: YBERC 2018 International Conference Proceedings. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-5 . - ISBN 9788080862718 [SCHNITZER, Marek (15%) - HUDÁK, Radovan (15%) - RAJŤÚKOVÁ, Viktória (14%) -

ŽIVČÁK, Jozef (14%) - KULA, Tomáš (14%) - IŽARÍKOVÁ, Gabriela (14%) - KARÁSEK, Michal (14%)]

197529 AFD 2018 **Advanced AZ61 Mg alloy composites reinforced by Al2O3 nanoparticles** / Beáta Ballóková ... [et al.] - 2018. In: YBERC 2018 International Conference Proceedings. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-5 . - ISBN 9788080862718 [BALLÓKOVÁ, Beáta (28%) - KARÁSEK, Michal (27%) - ŽIVČÁK, Jozef (15%) - HUDÁK, Radovan (15%) - SCHNITZER, Marek (15%)]

197531 AFD 2018 **Study of mesenchymal stem cells response to peek biomaterials in vitro** / Denisa Harvanová ... [et al.] - 2018. In: YBERC 2018 International Conference Proceedings. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-5 . - ISBN 978-80-8086-271-8 [HARVANOVÁ, Denisa (13%) - PLŠÍKOVÁ, Jana (12%) - ŠPAKOVÁ, Tímea (12%) - SCHNITZER, Marek (15%) - SMOTER, Samuel (11%) - FERETOVÁ, Miriam (11%) - HUDÁK, Radovan (15%) - ROSOCHA, Ján (11%)]

201944 AFD 2019 **Predklinické skúšky vyrobených implantačných štruktúr na animálnych subjektoch** / Lukáš Mitrík ... [et al.] - 2019. In: Novus Scientia 2019 : zborník príspevkov z 16. medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 23-29 [CD-ROM]. - ISBN 978-80-553-3249-9 [MITRÍK, Lukáš (17%) - TREBUŇOVÁ, Marianna (17%) - HUDÁK, Radovan (17%) - SCHNITZER, Marek (17%) - STAŠKO, Richard (16%) - ŽIVČÁK, Jozef (16%)]

208540 AFD 2019 **Experimentálna výroba a predklinické testovanie polymérno-keramických kompozitných materiálov pre technológiu FFF** / Marek Schnitzer ... [et al.] - 2019. In: Trendy v biomedicínskom inžinierstve 2019: Biomedical Engineering: zborník príspevkov. - Žilina (Slovensko) : Žilinská univerzita v Žiline s. 1-5 [CD-ROM]. - ISBN 978-80-554-1587-1 [SCHNITZER, Marek (12%) - HUDÁK, Radovan (11%) - MITRÍK, Lukáš (11%) - TREBUŇOVÁ, Marianna (11%) - FERANC, Jozef (11%) - MOLNÁR, Ladislav (11%) - ŠAJTY, Matej (11%) - KARÁSEK, Michal (11%) - PENCIAK, Rastislav (11%)]

214844 AFD 2020 **Využitie 3D tlače pre veterinárne účely** / Gabriela Dancáková ... [et al.] - 2020. In: Novus Scientia 2020: Zborník príspevkov z XVII. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 41-51 [CD-ROM]. - ISBN 978-80-553-3500-1
[DANCÁKOVÁ, Gabriela (40%) - SCHNITZER, Marek (15%) - TREBUŇOVÁ, Marianna (15%) - ŽIVČÁK, Jozef (15%) - HUDÁK, Radovan (15%)]

214966 AFD 2020 **Prehľad súčasného stavu pre redukciu artefaktov v ct, mri zobrazovaní pri implantátoch vyrobených aditívnou technológiou** / Patrik Varga ... [et al.] - 2020. In: Novus Scientia 2020 : Zborník príspevkov z XVII. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 249-253 [CD-ROM]. - ISBN 978-80-553-3500-1 [VARGA, Patrik (20%) - LANCOŠ, Samuel (10%) - SCHNITZER, Marek (15%) - SEDLÁK, Peter (10%) - KARÁSEK, Michal (10%) - MUCHOVÁ, Tatiana (10%) - ŽIVČÁK, Jozef (10%) - HUDÁK, Radovan (15%)]

216335 AFD 2020 **Pre-clinical testing of different implant structures in animal subjects** / Lukáš Mitrík ... [et al.] Spôsob prístupu: https://www.scopus.com/record/display.uri?eid=2-s2.0-85083314436&origin=resultslist&sort=plf-f&src=s... - 2020. In: 24th Slovak-Polish International Scientific Conference on Machine Modelling and Simulations. - Bristol (Veľká Británia) : IOP Publishing s. 1-8 [online]. - ISSN 1757-8981 [MITRÍK, Lukáš (20%) - TREBUŇOVÁ, Marianna (20%) - HUDÁK, Radovan (20%) - SCHNITZER, Marek (20%) - ŽIVČÁK, Jozef (20%)]
SCOPUS

218041 AFD 2020 **Prediktívna analýza skoliotickej krivky v 3D priestore za pomoci modelu vytvoreného priestorovým skenom trupu** / Tomáš Breškovič ... [et al.] - 2020. In: Novus Scientia 2020 : Zborník príspevkov z XVII. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 18-23 [CD-ROM]. - ISBN 978-80-553-3500-1 [BREŠKOVIČ, Tomáš (75%) - ŠTEFANOVIČ, Branko (5%) - KRAJŇÁKOVÁ, Viktória (5%) - SCHNITZER, Marek (5%) - ŽIVČÁK, Jozef (5%) - HUDÁK, Radovan (5%)]

221841 AFD 2020 **Design and production of reference skull and implant model and their testing in connection with artifacts in CT diagnostics** / Patrik Varga, Marek Schnitzer, Rastislav Penciak Spôsob prístupu: http://www.priemyselneinzinierstvo.sk/wp-content/uploads/2020/10/InvEnt-2020-Proceedings-web.pdf... - 2020. In: InvEnt 2020: Industrial engineering – Invention for enterprise : proceedings. - Bielsko-Biała (Poľsko) : Wydawnictwo Akademii Techniczno-Humnistycznej s. 148-151 [online]. - ISBN 978-83-66249-48-6 [VARGA, Patrik (50%) - SCHNITZER, Marek (40%) - PENCIAK, Rastislav (10%)]

225759 AFD 2020 **Návrh modelu sterna pre ochorenie pectus excavatum** / Patrik Varga ... [et al.] - 2020. In: Principia Cybernetica 2020 : 43. stretnutie ústavov a katedier automatizácie, kybernetiky a informatiky technických vysokých škôl a univerzít z Českej republiky a Slovenskej republiky. - Košice (Slovensko) : Technická univerzita v Košiciach s. 06-1-06-6 . - ISBN 978-80-553-3734-0 [VARGA, Patrik (30%) - SCHNITZER, Marek (20%) - PENCIAK, Rastislav (5%) - KARÁSEK, Michal (5%) - HUDÁK, Radovan (20%) - ŽIVČÁK, Jozef (20%)]

228317 AFD 2021 **Analýza možností segmentácie stavcov z DICOM dáť** / Patrik Varga ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 288-293 [online]. - ISBN 978-80-553-3798-2 [VARGA, Patrik (20%) - SCHNITZER, Marek (20%) - HUDÁK, Radovan (20%) - TÓTH, Teodor (20%) - ŽIVČÁK, Jozef (20%)]

228328 AFD 2021 **3D návrh a výroba dentálnych chirurgických navádzačov** / Ľuboš Chromý ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 105-109 [online]. - ISBN 978-80-553-3798-2 [CHROMÝ, Ľuboš (20%) - RAJŤÚKOVÁ, Viktória (20%) - SCHNITZER, Marek (20%) - SINČÁK KONEČNÁ, Andrea (10%) - RIZNIČ, Marcel (10%) - HUDÁK, Radovan (20%)]

228331 AFD 2021 **Aditívna výroba a mechanické skúšky polyméru PLA/PHB** / Tomáš Balint ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 10-15 [online]. - ISBN 978-80-553-3798-2 [BALINT, Tomáš (40%) - FINDRIK BALOGOVÁ, Alena (10%) - ŽIVČÁK, Jozef (10%) - HUDÁK, Radovan (10%) - BREŠKOVIČ, Tomáš (10%) - LANCOŠ, Samuel (10%) - SCHNITZER, Marek (10%)]

228387 AFD 2021 **Metodika procesu výroby medicínskeho polyméru PEEK s prímesou keramiky** / Samuel Lancoš ... [et al.] - 2021. In: Novus Scientia 2021: zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 172-175 [online]. - ISBN 978-80-553-3798-2 [LANCOŠ, Samuel (20%) - KOHAN, Miroslav (15%) - DANCÁKOVÁ, Gabriela (15%) - BALINT, Tomáš (10%) - SCHNITZER, Marek (10%) - SZEDLÁK, Peter (10%) - ŽIVČÁK, Jozef (10%) - HUDÁK, Radovan (10%)]

228426 AFD 2021 **Prehľad implantačných zostáv pre fixáciu spinálnych segmentov** / Lukáš Mitrík ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 181-183 [online]. - ISBN 978-80-553-3798-2 [MITRÍK, Lukáš (16%) - TREBUŇOVÁ, Marianna (14%) - SCHNITZER, Marek (14%) - KARÁSEK, Michal (14%) - JUHÁS, Martin (14%) - HUDÁK, Radovan (14%) - ŽIVČÁK, Jozef (14%)]

228468 AFD 2021 **Návrh lumbálnej, stabilizačnej podložky na vertikálnu korekciu a fixáciu idiopatickéj skoliózy počas spánku** / Tomáš Breškovič ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 24-26 [online]. - ISBN 978-80-553-3798-2 [BREŠKOVIČ, Tomáš (55%) - BALINT, Tomáš (15%) - SCHNITZER, Marek (15%) - ŽIVČÁK, Jozef (15%)]

229565 AFD 2021 **Dizajn individuálneho implantátu na úpravu balansu pre sokola sťahovavého (falco peregrinus) po amputácii krídla** / Gabriela Dancáková ... [et al.] - 2021. In: Novus Scientia 2021 :

zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 38-42 [online]. - ISBN 978-80-553-3798-2 [DANCÁKOVÁ, Gabriela (20%) - BROUWER, Nicole (10%) - LANCOŠ, Samuel (5%) - SCHNITZER, Marek (10%) - RAJŤÚKOVÁ, Viktória (5%) - MOLNÁR, Ladislav (10%) - KOHAN, Miroslav (5%) - TREBUŇOVÁ, Marianna (10%) - ŽIVČÁK, Jozef (10%) - HUDÁK, Radovan (15%)]

231289 AFD 2021 **Analýza horčíkových zliatin v procese 3D tlače** / Jana Klímová ... [et al.] - 2021. In: Novus Scientia 2021 : zborník príspevkov z 18. Medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 147-151 [online]. - ISBN 978-80-553-3798-2 [KLÍMOVÁ, Jana (25%) - SCHNITZER, Marek (25%) - ŽIVČÁK, Jozef (25%) - HUDÁK, Radovan (25%)]

231464 AFD 2021 **Additive Manufacturing in Medicine and Tissue Engineering** / Radovan Hudák, Marek Schnitzer, Jozef Živčák Spôsob prístupu: https://ieeexplore.ieee.org/document/9378685... - 2021. In: SAMI 2021 : IEEE 19th World Symposium on Applied Machine Intelligence and Informatics. - Danvers (USA) : Institute of Electrical and Electronics Engineers s. 11-12 [online, USB-key]. - ISBN 978-1-7281-8053-3 (online) [HUDÁK, Radovan (34%) - SCHNITZER, Marek (33%) - ŽIVČÁK, Jozef (33%)]
WOS

231511 AFD 2021 **Pilot study: Measurement of mechanical load using a glass-coated microwire for implantology applications** / Miroslav Kohan ... [et al.] Spôsob prístupu: https://doi.org/10.1109/SAMI50585.2021.9378681... - 2021. In: SAMI 2021 : IEEE 19th World Symposium on Applied Machine Intelligence and Informatics. - Danvers (USA) : Institute of Electrical and Electronics Engineers s. 267-272 [online, USB-key]. - ISBN 978-1-7281-8053-3 (online) [KOHAN, Miroslav (40%) - VARGA, Rastislav (5%) - HUDÁK, Radovan (5%) - SCHNITZER, Marek (5%) - FERENČÍK, Norbert (15%) - DANCÁKOVÁ, Gabriela (15%) - LANCOŠ, Samuel (15%)]
WOS;SCOPUS

231512 AFD 2021 **Production, additive printing and mechanical testing of PLA/PHB material with different concentrations of TAC emollient** / Tomáš Balint ... [et al.] Spôsob prístupu: https://ieeexplore.ieee.org/document/9378661... - 2021. In: SAMI 2021 : IEEE 19th World Symposium on Applied Machine Intelligence and Informatics. - Danvers (USA) : Institute of Electrical and Electronics Engineers s. 87-92 [online, USB-key]. - ISBN 978-1-7281-8053-3 (online) [BALINT, Tomáš (20%) - FINDRIK BALOGOVÁ, Alena (20%) - HUDÁK, Radovan (20%) - ŽIVČÁK, Jozef (20%) - SCHNITZER, Marek (10%) - FERANC, Jozef (10%)]
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AGJ – Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky dizajnov, prihlášky ochranných známok, žiadosti o udelenie dodatkových ochranných osvedčení, prihlášky topografií polovodičových výrobkov, prihlášky označení pôvodu výrobkov, prihlášky zemepisných označení výrobkov, prihlášky na udelenie šľachtiteľských osvedčení (2)

229611 AGJ 2021 **Personalizovaná zdravotnícka pomôcka a spôsob jej prípravy** / Martin Juhás ... [et al.] Spôsob prístupu: https://wbr.indprop.gov.sk/WebRegistre/UzitkovyVzor/Detail/17-2020... - Banská Bystrica : ÚPV SR - 2021. - 10 s.. [JUHÁS, Martin (51%) - ŽIVČÁK, Jozef (15%) - HUDÁK, Radovan (15%) - SCHNITZER, Marek (14%) - ŠTEFANOVIČ, Branko (5%)]

300660 AGJ 2021 **Personalizovaná zdravotnícka pomôcka a spôsob jej prípravy** / Martin Juhás ... [et al.] Spôsob prístupu: https://wbr.indprop.gov.sk/WebRegistre/Patent/Detail/8-2020... - Banská Bystrica : ÚPV SR - 2021. - 8 s..
[JUHÁS, Martin (51%) - ŽIVČÁK, Jozef (15%) - HUDÁK, Radovan (15%) - SCHNITZER, Marek (14%) - ŠTEFANOVIČ, Branko (5%)]

BCI - Skriptá a učebné texty (2)

166881 BCI 2015 **Biomechanizmy: Materiály a technológie v implantológii** / Jozef Živčák ... [et al.] - 1. vyd. - Košice : SjF TU - 2015. - 194 s.. - ISBN 978-80-89040-44-5. [ŽIVČÁK, Jozef (25%) - HUDÁK, Radovan

(35%) - SCHNITZER, Marek (25%) - LISÝ, Martin (15%)]

226557 BCI 2018 **Biomedicínske inžinierstvo I.** / Radovan Hudák ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2018. - 210 s. [print]. - ISBN 978-80-553-3241-3. [HUDÁK, Radovan (25%) - SCHNITZER, Marek (25%) - RAJŤÚKOVÁ, Viktória (25%) - ŽIVČÁK, Jozef (25%)]

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

174040 BEE 2016 **Cervical implant design, structural analysis and topological optimization** / Marek Schnitzer ... [et al.] - 2016. In: YBERC 2016. - Ostrava : VŠB- Ostrava, 2016 P. 1-5. [SCHNITZER, Marek (20%) - HUDÁK, Radovan (16%) - ŽIVČÁK, Jozef (16%) - KULA, Tomáš (16%) - BOCKO, Jozef (16%) - KARÁSEK, Michal (16%)]

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

154259 BEF 2014 **Experimentálne meranie drsnosti testovacích vzoriek výrobených technológiou DMLS z titánovej zliatiny Ti-6Al-4V** / Marek Schnitzer ... [et al.] - 2014. In: Trends of education and research in biomedical technologies : conference proceedings : Košice, November 26-29, 2014. - Košice : Pavol Jozef Šafárik University in Košice, 2014 S. 95-106. - ISBN 978-80-8152-217-8
[SCHNITZER, Marek (25%) - LISÝ, Martin (25%) - HUDÁK, Radovan (25%) - ŽIVČÁK, Jozef (25%)]

DAI - Dizertačné a habilitačné práce (1)

216548 DAI 2018 **Analýza a testovanie biomechanických parametrov ortopedických implantátov vyrábaných technikou aditívnej výroby** / Marek Schnitzer - 1. vyd. - Košice : Technická univerzita v Košiciach - 2018. - 128 s.. [SCHNITZER, Marek (100%)]

O2 – odborný výstup publikačnej činnosti ako časť knižnej publikácie alebo zborníka kapitola, príspevok, abstrakt, abstrakt z podujatia, poster z podujatia, príspevok z podujatia, recenzia, heslo (1)

305013 O2 2022 **Parameter settings of the PEEK and PPSU filaments production with ceramic component** / Miroslav Kohan ... [et al.] - 2022. In: 29th Symposium on Experimental Mechanics : in memory of prof. Jacek Stupnicki. - Varšava (Poľsko) : Oficyna Wydawnicza Politechniki Warszawskiej s. [22-22] [print]. - ISBN 978-83-8156-458-8 [KOHAN, Miroslav (20%) - LANCOŠ, Samuel (16%) - BALINT, Tomáš (16%) - SCHNITZER, Marek (16%) - HUDÁK, Radovan (16%) - ŽIVČÁK, Jozef (16%)]

**V2 - vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka – kapitola, príspevok, abstrakt, abstrakt z podujatia, poster z podujatia,
príspevok z podujatia (8)**

302381 V2 2021 S**oftvérová podpora a aditívne technológie pre veterinárne aplikácie** / Gabriela Dancáková ... [et al.] - 2021. In: Trendy v biomedicínském inženýrství : Recenzovaný sborník příspěvků odborné konference. - Liberec (Česko) : Technická univerzita v Liberci s. 41-44 [print]. - ISBN 978-80-7494-586-1 [DANCÁKOVÁ, Gabriela (25%) - SCHNITZER, Marek (25%) - HUDÁK, Radovan (25%) - FINDRIK BALOGOVÁ, Alena (25%)]

302382 V2 2021 **Návrh metodiky prípravy horčíkového prášku pre potreby 3D tlače** / Jana Klímová ... [et al.] - 2021. In: Trendy v biomedicínském inženýrství : Recenzovaný sborník příspěvků odborné konference. - Liberec (Česko) : Technická univerzita v Liberci s. 86-89 [print]. - ISBN 978-80-7494-586-1 [KLÍMOVÁ, Jana (20%) - MOLČANOVÁ, Zuzana (16%) - SAKSL, Karel (16%) - SCHNITZER, Marek (16%) - ŽIVČÁK, Jozef (16%) - HUDÁK, Radovan (16%)]

303282 V2 2022 **Production of biomedical filaments** / Tomáš Balint ... [et al.] - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 14-19 [online]. - ISBN 978-80-553-4085-2 [BALINT, Tomáš (25%) - ŽIVČÁK, Jozef (15%) - HUDÁK, Radovan (15%) - LANCOŠ, Samuel (15%)

- KOHAN, Miroslav (15%) - SCHNITZER, Marek (15%)]

303302 V2 2022 **Methodology of the personalized implants manufacturing pro- cess by additive technology** / Patrik Varga ... [et al.] Spôsob prístupu: https://www.sjf.tuke.sk/NovusScientia/Zbornik konferencie Novus Scientia 2022.pdf... - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 214-218 [online]. - ISBN 978-80-553-4085-2 [VARGA, Patrik (25%) - HUDÁK, Radovan (25%) - SCHNITZER, Marek (25%) - ŽIVČÁK, Jozef (25%)]

303322 V2 2022 **Software support and additive technologies for veterinary applications** / Gabriela Dancáková ... [et al.] - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 274-279 [online]. - ISBN 978-80-553-4085-2 [DANCÁKOVÁ, Gabriela (20%) - SCHNITZER, Marek (20%) - FINDRIK BALOGOVÁ, Alena (20%) - ŽIVČÁK, Jozef (20%) - HUDÁK, Radovan (20%)]

303330 V2 2022 **Scheme of methodology of magnesium powder preparation for 3D printing** / Jana Klímová ... [et al.] - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 96-100 [online]. - ISBN 978-80-553-4085-2 [KLÍMOVÁ, Jana (16%) - MOLČANOVÁ, Zuzana (14%) - SAKSL, Karel (14%) - TREBUŇOVÁ, Marianna (14%) - SCHNITZER, Marek (14%) - ŽIVČÁK, Jozef (14%) - HUDÁK, Radovan (14%)]

303331 V2 2022 **Methodology of degradation assessment of polymeric materials** / Lukáš Mitrík ... [et al.] - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 134-139 [online]. - ISBN 978-80-553-4085-2 [MITRÍK, Lukáš (20%) - TREBUŇOVÁ, Marianna (16%) - FINDRIK BALOGOVÁ, Alena (16%) - SCHNITZER, Marek (16%) - HUDÁK, Radovan (16%) - ŽIVČÁK, Jozef (16%)]

303386 V2 2022 **Production of filaments and optimization of the 3D printing process for PLA/PHB material with an admixture of a ceramic component** / Samuel Lancoš ... [et al.] - 2022. In: Novus Scientia 2022. - Košice (Slovensko) : Technická univerzita v Košiciach s. 309-314 [online]. - ISBN 978-80-553-4085-2 [LANCOŠ, Samuel (25%) - KOHAN, Miroslav (15%) - SCHNITZER, Marek (15%) - DANCÁKOVÁ, Gabriela (15%) - BALINT, Tomáš (15%) - HUDÁK, Radovan (15%)]

V3 - vedecký výstup publikačnej činnosti z časopisu – abstrakt, článok, abstrakt z podujatia, poster z podujatia, článok z podujatia (8)

302816 V3 2021 **Digitalizačný proces výroby anatomického modelu pomocou aditívnej technológie** / Viktória Rajťúková ... [et al.] - 2021. In: Folia medica Cassoviensia. - Košice (Slovensko) : Lekárska fakulta Roč. 75, č. 2 (2021), s. 25-30 [print]. - ISSN 1337-7817 [RAJŤÚKOVÁ, Viktória (16%) - SCHNITZER, Marek (14%) - DANCÁKOVÁ, Gabriela (14%) - FERENČÍK, Norbert (14%) - KARÁSEK, Michal (14%) - ŽIVČÁK, Jozef (14%) - HUDÁK, Radovan (14%)]

305568 V3 2022 **Impact of In Vitro Degradation on the Properties of Samples Produced by Additive Production from PLA/PHB-Based Material and Ceramics** / Alena Findrik Balogová ... [et al.] - 2022. In: Polymers. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 14, č. 24 (2022), s. [1-15] [online]. - ISSN 2073-4360 (online) [FINDRIK BALOGOVÁ, Alena (20%) - TREBUŇOVÁ, Marianna (20%) - BAČENKOVÁ, Darina (5%) - KOHAN, Miroslav (5%) - HUDÁK, Radovan (5%) - TÓTH, Teodor (20%) - SCHNITZER, Marek (5%) - ŽIVČÁK, Jozef (20%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q1,SCO:Q1

305910 V3 2022 **Polymer materials and their usage in veterinary practice** / Alena Findrik Balogová ... [et al.] Spôsob prístupu: https://doi.org/10.22306/atec.v8i4.150... - 2022. In: Acta Tecnología : International Scientific Journal about Technologies. - Šemša (Slovensko) : 4S go, 2015 Roč. 8, č. 4 (2022), s. 109-115 [online]. - ISSN 2453-675X (online) [FINDRIK BALOGOVÁ, Alena (20%) - MITRÍK, Lukáš (5%) - TREBUŇOVÁ, Marianna (20%) - DANCÁKOVÁ, Gabriela (15%) - SCHNITZER, Marek (20%) - ŽIVČÁK, Jozef (20%)]

305977 V3 2022 **Stratégie a možnosti v regenerácii hyalinovej chrupky** / Gabriela Dancáková ... [et al.] Spôsob prístupu: https://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/46-2022/pdf/060-064.pdf... - 2022. In: Transfer inovácií : internetový časopis o inováciách v priemysle. - Košice (Slovensko) : Technická

univerzita v Košiciach č. 46 (2022), s. 60-64 [online]. - ISSN 1337-7094 (online)
[DANCÁKOVÁ, Gabriela (20%) - DANKO, Mária (20%) - SCHNITZER, Marek (20%) - HUDÁK, Radovan (20%) - ŽIVČÁK, Jozef (20%)]

305989 V3 2022 **Analysis of PLA/PHB biopolymer material with admixture of hydroxyapatite and tricalcium phosphate for clinical use** / Miroslav Kohan ... [et al.] Spôsob prístupu: http://dx.doi.org/10.3390/polym14245357... - 2022. In: Polymers. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 14, č. 24 (2022), s. [1-19] [online]. - ISSN 2073-4360 (online)
[KOHAN, Miroslav (40%) - LANCOŠ, Samuel (10%) - SCHNITZER, Marek (40%) - ŽIVČÁK, Jozef (5%) - HUDÁK, Radovan (5%)]
WOS;SCOPUS;CCC Kvartil: WOS:Q1,SCO:Q1

306074 V3 2022 **Therapy of extensive chronic skin defects after a traumatic injury due to microbial contamination using a surface implant made of a biocompatible polycaprolactone—a pilot case study** / Alena Findrik Balogová ... [et al.] Spôsob prístupu: https://www.mdpi.com/2073-4360/14/23/5293... - 2022. In: Polymers. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 14, č. 23 (2022), s. [1-10] [online]. - ISSN 2073-4360 (online) [FINDRIK BALOGOVÁ, Alena (10%) - KOŽÁR, Martin (30%) - STAROŇOVÁ, Radka (5%) - SCHNITZER, Marek (40%) - DANCÁKOVÁ, Gabriela (5%) - ŽIVČÁK, Jozef (5%) - HUDÁK, Radovan (5%)]
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306294 V3 2022 **Analysis of Selected Hardware and Software Solutions for Virtual Reality Currently Available on the Technological Market** / Natália Jasminská ... [et al.] Spôsob prístupu: https://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/46-2022/pdf/128-134.pdf... - 2022. In: Transfer inovácií : internetový časopis o inováciách v priemysle. - Košice (Slovensko) : Technická univerzita v Košiciach č. 46 (2022), s. 128-134 [online]. - ISSN 1337-7094 (online)
[JASMINSKÁ, Natália (15%) - SCHNITZER, Marek (14%) - KOČIŠOVÁ, Michaela (14%) - NOVÁKOVÁ-MARCINČÍNOVÁ, Ema (15%) - HLUBEŇOVÁ, Jana (14%) - FERENČÍK, Norbert (14%) - KOHAN, Miroslav (14%)]

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1 Electrochemical deposition of a hydroxyapatite layer onto the surface of porous additively manufactured Ti6Al4V scaffolds

Gorejova, R; Orinakova, R; (...); Hudak, R

Feb 25 2023 | Jan 2023 (Early Access) | SURFACE & COATINGS TECHNOLOGY 455

52 References

Successful acceptance of biomaterials by a patient's body significantly depends on an interaction between the surface and the biological components of the host environment. In the case of orthopedic scaffolds, surface treatment may improve their osseointegration. This study deals with the electrochemical deposition of ceramic hydroxyapatite (HAp) coatings onto additively manufactured titanium s ... Show more

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2 Impact of In Vitro Degradation on the Properties of Samples Produced by Additive Production from PLA/PHB-Based Material and Ceramics

Balogova, AF; Trebunova, M; (...); Zivcak, J

Dec 2022 | POLYMERS 14 (24)

20 References

Enriched Cited References

The present study deals with preparing a polymer-based material with incorporated ceramics and monitoring changes in properties after in vitro natural degradation. The developed material is a mixture of polymers of polylactic acid and polyhydroxybutyrate in a ratio of 85:15. Ceramic was incorporated into the prepared material, namely 10% hydroxyapatite and 10% tricalcium phosphate of the total ... Show more

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3 Therapy of Extensive Chronic Skin Defects after a Traumatic Injury Due to Microbial Contamination Using a Surface Implant Made of a Biocompatible Polycaprolactone-A Pilot Case Study

Balogova, AF; Kozar, M; (...); Hudak, R

Dec 2022 | POLYMERS 14 (23)

Enriched Cited References

This case study describes the use of additive manufacturing technology combining a biodegradable polymer material, polycaprolactone (PCL), and innovative procedures for creating superficial wound dressing, a scaffold in the therapy of extensive contaminated skin defects caused by a traumatic injury. Chronic and contaminated wounds represent a clinical problem and require intensive wound care. T ... Show more

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4 Analysis of PLA/PHB Biopolymer Material with Admixture of Hydroxyapatite and Tricalcium Phosphate for Clinical Use

Kohan, M; Lancos, S; (...); Hudak, R

Dec 2022 | POLYMERS 14 (24)

Enriched Cited References

One trend in tissue engineering and regenerative medicine is the development of degradable composite polymers. The aim of this study was the comprehensive analysis of Polylactic acid (PLA)/Polyhydroxybutyrate (PHB) + Hydroxyapatite (HA)/Tricalcium phosphate (TCP) material from filament production to mechanical testing of samples with different infills and the production of an implant replacemen ... Show more

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5 Review of ankle rehabilitation devices for treatment of equinus contracture

Dostalova, K; Tomasek, R; (...); Demel, J

Sep 2 2022 | Oct 2022 (Early Access) | EXPERT REVIEW OF MEDICAL DEVICES 19 (9) , pp.721-731

Introduction Equinus contracture is a serious disability and attention should be paid to proper and effective treatment. Most attention is given to neurologically impaired patients, but the incidence of equinus contracture is much higher, for example, in post-traumatic patients. In addition to conventional physical therapy, robotic rehabilitation treatment is one of the promising procedures to ... Show more

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6 Additive Manufacturing of Porous Ti6Al4V Alloy: Geometry Analysis and Mechanical Properties Testing

Hudak, R; Schnitzer, M; (...); Zivcak, J

Mar 2021 | APPLIED SCIENCES-BASEL 11 (6)

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This work is devoted to the research of porous titanium alloy structures suitable for use in biomedical applications. Mechanical properties were examined on six series of samples with different structures and porosity via static compressive test to identify the type of structure suitable for elimination of the "stress shielding" effect. In addition, high porosity is desirable due to the overgro ... Show more

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7 Comparison of Selected Characteristics of SARS-CoV-2, SARS-CoV, and HCoV-NL63

Bacenkova, D; Trebunova, M; (...); Zivcak, J

Feb 2021 | APPLIED SCIENCES-BASEL 11 (4)

5 Citations

71 References

The global pandemic known as coronavirus disease 2019 (COVID-19) was caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). This review article presents the taxonomy of SARS-CoV-2 coronaviruses, which have been classified as the seventh known human pathogenic coronavirus. The etiology of COVID-19 is also briefly discussed. Selected characteristics of SARS-CoV-2, SARS-CoV, and H ... Show more

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8 Production, additive printing and mechanical testing of PLA/PHB material with different concentrations of TAC emollient

Balint, T; Balogova, AF; (...); Feranc, J

19th IEEE World Symposium on Applied Machine Intelligence and Informatics (SAMI)

2021 | 2021 IEEE 19TH WORLD SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI 2021) , pp.87-92

14 References

In order to carry out mechanical testing of samples printed by using additive technology, it is necessary to specify the parameters of the production of filaments, the parameters of 3D printing and the parameters of mechanical testing. In this article, I will discuss the production of filaments, additive technology for printing samples from PLA/PHB material used for detailed mechanical tests an ... Show more

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9 Additive Manufacturing in Medicine and Tissue Engineering

Hudak, R; Schnitzer, M and Zivcak, J

19th IEEE World Symposium on Applied Machine Intelligence and Informatics (SAMI)

2021 | 2021 IEEE 19TH WORLD SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI 2021) , pp.11-11

0 References

Nowadays, additive manufacturing otherwise known as three-dimensional (3D) printing is fully implemented into the production of hard tissue replacements. Department of Biomedical Engineering and Measurement together with Biomedical Engineering company designed and produced more than 300 implants made of Ti64 ELI titanium alloy using additive technologies, which were subsequently implanted by su ... Show more

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10

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Pilot study: Measurement of mechanical load using a glass-coated microwire for implantology applications

Kohan, M; Varga, R; (...); Lancos, S

19th IEEE World Symposium on Applied Machine Intelligence and Informatics (SAMI)

2021 | 2021 IEEE 19TH WORLD SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI 2021) , pp.267-272

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The aim of the pilot study was to determine the mechanical load using a glass-coated microwire on 3 experimental samples at different positions of the microwire (vertical, horizontal, diagonal position) for possible application in the field of implantology. The production of experimental samples was created by additive technology from a flexible material. The mechanical load ranged from F = 40 ... Show more

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11

Accuracy Verification of an Anatomical Model Manufactured Using Low-Cost Additive Production

Toth, T; Varga, P; (...); Zivcak, J

Jan 2021 | APPLIED SCIENCES-BASEL 11 (2)

38 References

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The paper deals with the separation of the third cervical vertebra using the software VGStudio MAX, Mimics, and inVesalius. During the separation, various parameters of the threshold were used to determine the effect. The comparison of models from Mimics and inVesalius to VGStudio MAX showed that the cumulative variance distribution for 95% surface coverage is less than 0.935 mm. When comparing ... Show more

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A comparison of experimental compressive axial loading testing with a numerical simulation of topologically optimized cervical implants made by selective laser melting

Schnitzer, M; Hudak, R; (...); Somos, A

Oct 10 2020 | JOURNAL OF BIOTECHNOLOGY 322 , pp.33-42

3 Citations

38 References

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In recent years, the number of cervical interventions has increased. The stress shielding effect is a serious complication in cervical spine interventions. Topological optimization is based on finite element method structural analysis and numerical simulations. The generated design of cervical implants is made from Ti6Al4V powder by selective laser melting while the optimized cage is numericall ... Show more

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13

Comparison of networking technology in relationship with cellular phone radiation as a potential threat to the population

Kohan, M; Jakusova, V; (...); Ivankova, J

13th International ELEKTRO Conference (ELEKTRO)

2020 | 13TH INTERNATIONAL CONFERENCE ON ELEKTRO (ELEKTRO 2020)

23 References

Objective: Detection real absolute value of electric intensity (E) of electromagnetic field (EMF) generated from a mobile cell phone at 2G, 3G, 4G and local Wi-Fi networks for voice telephony and data transmission in the working environment. Methods: A total number of measurements was n= 225 in three different interior places. Measurements were realized by broadband sensor NARDA 550 at a freque ... Show more

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14 Determination of geometrical and viscoelastic properties of PLA/PHB samples made by additive manufacturing for urethral substitution

22 Citations

31 References

Balogova, AF; Hudak, R; (...); Zivcak, J

Oct 20 2018 | JOURNAL OF BIOTECHNOLOGY 284 , pp.123-130

Additive manufacturing has a great potential for creating hard tissue substitutes, such as bone and cartilage, or soft tissues, such as vascular and skin grafts. This study is a pilot study for 3D printing of a new material mixture potentially used as a tubular substitute for urethra replacement. This new mixture is a blend of polylactic acid (PLA) and polyhydroxybutyrate (PHB). ... Show more

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15 NUMERICAL SIMULATION AND EXPERIMENTAL TESTING OF TOPOLOGICALLY OPTIMIZED PLA CERVICAL IMPLANTS MADE BY ADDITIVE MANUFACTURING METHODICS

1 Citation

20 References

Zivcak, J; Hudak, R; (...); Kula, T

Jun 2018 | ACTA MECHANICA ET AUTOMATICA 12 (2) , pp.141-144

The article focuses on compressive axial loading experimental testing and simulations of topologically optimized design and additively manufactured cervical implants. The proposed platform design is based on anatomical and biomechanical requirements for application in the cervical area. Thanks to new ways of production, such as additive manufacturing, and new software possibilities in the field ... Show more

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16 Metabolites of Tryptophane and Phenylalanine as Markers of Small Bowel Ischemia-Reperfusion Injury

20 References

Maslankova, J; Toth, S; (...); Marekova, M

Jan 2018 | OPEN CHEMISTRY 16 (1) , pp.709-715

Ischemic-reperfusion injury of the small intestine is an acute clinical condition with high mortality rate. This study describes the changes in levels of phenylalanine and tryptophan metabolites in intestinal homogenates and urine samples of Wistar male rats after 60 minutes of mesenteric ischemia and different reperfusion periods (1, 24, 30 hours) in comparison with a control group without the ... Show more

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2 Citations

Experimental measuring of the roughness of test samples made using DMLS technology from the Titanium alloy Ti-6Al-4V

Schnitzer, M; Lisy, M; (...); Zivcak, J

IEEE 13th International Symposium on Applied Machine Intelligence and Informatics (SAMI)
2015 | 2015 IEEE 13TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI) , pp.31-36

A topic of interest related to titanium alloy Ti-6Al-4V implants is optional surface treatment. In many cases surface treatment is used for bioactivation of the implant and thereby improvement of its biocompatibility and osseointegration. An important factor of surface properties in the context of applying coatings is its roughness. This paper discusses the design of test samples (plates). It i ... Show more

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