

Jozef Å½ivÄk

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

843
citations

566801

15
h-index

610482

24
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107
all docs

107
docs citations

107
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	New Generation of the Compact System for Performing Measurements of Sold Liquids by Gas Station Dispensers. Journal of Marine Science and Engineering, 2022, 10, 524.	1.2	2
2	In Vitro Model of Human Trophoblast in Early Placentation. Biomedicines, 2022, 10, 904.	1.4	8
3	Development and Testing of Copper Filters for Efficient Application in Half-Face Masks. Applied Sciences (Switzerland), 2022, 12, 6824.	1.3	0
4	Innovative approaches to designing and manufacturing a prosthetic thumb. Prosthetics and Orthotics International, 2021, 45, 81-84.	0.5	5
5	Selected Properties of Hardfacing Layers Created by PTA Technology. Metals, 2021, 11, 134.	1.0	11
6	Analysis of the Heat Balance of a Metal Hydride Separator Used for the Separation of Hydrogen from Syngas. Processes, 2021, 9, 251.	1.3	4
7	Overview Article: Bioreactors Designed for 3D Bioprinted Tissue and Process Parameters. , 2021, , .		0
8	A Portable BVM-based Emergency Mechanical Ventilator. , 2021, , .		6
9	Additive Manufacturing in Medicine and Tissue Engineering: Plenary Talk. , 2021, , .		1
10	Accuracy Verification of an Anatomical Model Manufactured Using Low-Cost Additive Production. Applied Sciences (Switzerland), 2021, 11, 594.	1.3	3
11	KALEM- a writing aid for patients with upper limb tremor. , 2021, , .		0
12	Comparison of Selected Characteristics of SARS-CoV-2, SARS-CoV, and HCoV-NL63. Applied Sciences (Switzerland), 2021, 11, 1497.	1.3	5
13	Sizing and Topology Optimization of Trusses Using Genetic Algorithm. Materials, 2021, 14, 715.	1.3	13
14	The Influence of Automated Machining Strategy on Geometric Deviations of Machined Surfaces. Applied Sciences (Switzerland), 2021, 11, 2353.	1.3	11
15	Additive Manufacturing of Porous Ti6Al4V Alloy: Geometry Analysis and Mechanical Properties Testing. Applied Sciences (Switzerland), 2021, 11, 2611.	1.3	13
16	An Adaptive Neuro-Fuzzy Control of Pneumatic Mechanical Ventilator. Actuators, 2021, 10, 51.	1.2	6
17	PHB/CHIT Scaffold as a Promising Biopolymer in the Treatment of Osteochondral Defectsâ€”An Experimental Animal Study. Polymers, 2021, 13, 1232.	2.0	11
18	Economic Analysis of Potential Secondary Use of Batteries from Electric Vehicles. Applied Sciences (Switzerland), 2021, 11, 3834.	1.3	4

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19	Passive Multi-Layer Composite Damper of Flat Belt Tensioner Idler. Applied Sciences (Switzerland), 2021, 11, 3267.	1.3	3
20	Impact of bio-renewable energy sources on reduction of emission footprint from vehicles. Biofuels, Bioproducts and Biorefining, 2021, 15, 1385-1394.	1.9	9
21	Analysis of Biodiesel Influence on Unregulated Gaseous Emissions of Diesel Motor Vehicles. Applied Sciences (Switzerland), 2021, 11, 4646.	1.3	3
22	In Vitro Degradation of Specimens Produced from PLA/PHB by Additive Manufacturing in Simulated Conditions. Polymers, 2021, 13, 1542.	2.0	11
23	Increasing Mechanical Properties of 3D Printed Samples by Direct Metal Laser Sintering Using Heat Treatment Process. Journal of Marine Science and Engineering, 2021, 9, 821.	1.2	7
24	The Determination of the Inward Leakage through the Skin-Facepiece Interface of the Protective Half-Mask. Applied Sciences (Switzerland), 2021, 11, 8042.	1.3	2
25	Morphometric analysis of the effect of the radiofrequency interface of electromagnetic field on the size of hatched Dermacentor reticulatus larvae. Annals of Agricultural and Environmental Medicine, 2021, 28, 419-425.	0.5	2
26	Inhomogeneity of CoCrW powder products manufactured by SLM technology. Journal of Mechanical Science and Technology, 2021, 35, 4389-4404.	0.7	3
27	Production, additive printing and mechanical testing of PLA/PHB material with different concentrations of TAC emollient. , 2021, , .		0
28	The effects of locations on the build tray on the quality of specimens in powder bed additive manufacturing. International Journal of Advanced Manufacturing Technology, 2021, 112, 1159-1170.	1.5	30
29	Re-Design of Machine Tool Joint Components Based on Polymer Fillings for High-Speed Performance. Materials, 2021, 14, 6913.	1.3	3
30	Dynamical Behavior of a New Chaotic System with One Stable Equilibrium. Mathematics, 2021, 9, 3217.	1.1	6
31	A comparison of experimental compressive axial loading testing with a numerical simulation of topologically optimized cervical implants made by selective laser melting. Journal of Biotechnology, 2020, 322, 33-42.	1.9	4
32	Concept of energy efficient technological system: Machine tool - cutting tool - workpiece. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 1170-1179.	0.5	0
33	Development and Application of Advanced Technological Solutions within Construction of Experimental Vehicle. Applied Sciences (Switzerland), 2020, 10, 5348.	1.3	2
34	Expected Impacts of the Massive Increase in Electric Vehicles in Slovakia. Applied Sciences (Switzerland), 2020, 10, 8945.	1.3	5
35	Analysis of Some Selected Immunomodulatory Properties of Chorionic Mesenchymal Stem Cells. Applied Sciences (Switzerland), 2020, 10, 9040.	1.3	5
36	Application of Advanced Measuring Methods for Identification of Stresses and Deformations of Automotive Structures. Applied Sciences (Switzerland), 2020, 10, 7510.	1.3	12

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37	Experimental study of parameters influencing the damping of particulate, fibre-reinforced, hybrid, and sandwich composites. <i>International Journal of Materials Research</i> , 2020, 111, 688-697.	0.1	9
38	Comparison of networking technology in relationship with cellular phone radiation as a potential threat to the population. , 2020, , .		0
39	THE EFFECT OF FOOTWEAR TO THE POSTURE. <i>Lekar A Technika</i> , 2020, 50, 58-64.	0.1	1
40	APPLICATION OF THE ARTEC EVA SCANNER FOR ORTHOTICS IN PRACTICE. <i>Lekar A Technika</i> , 2020, 49, 92-96.	0.1	1
41	Endoscopic and Microscopic Segmental Decompression via Translaminar Crossover Spinal Approach in Elderly Patients. <i>World Neurosurgery</i> , 2019, 125, e361-e371.	0.7	6
42	The Effect of Position of Materials on a Build Platform on the Hardness, Roughness, and Corrosion Resistance of Ti6Al4V Produced by DMLS Technology. <i>Metals</i> , 2019, 9, 1055.	1.0	5
43	3D printed Polylactid Acid based porous scaffold for bone tissue engineering: an in vitro study. <i>Acta of Bioengineering and Biomechanics</i> , 2019, 21, .	0.2	1
44	3D printed Polylactid Acid based porous scaffold for bone tissue engineering: an in vitro study. <i>Acta of Bioengineering and Biomechanics</i> , 2019, 21, 101-110.	0.2	1
45	Adjustable Polyurethane Foam as Filling Material for a Novel Spondyloplasty: Biomechanics and Biocompatibility. <i>World Neurosurgery</i> , 2018, 112, e848-e858.	0.7	5
46	Metabolites of Tryptophane and Phenylalanine as Markers of Small Bowel Ischemia-Reperfusion Injury. <i>Open Chemistry</i> , 2018, 16, 709-715.	1.0	0
47	Numerical Simulation and Experimental Testing of Topologically Optimized PLA Cervical Implants Made by Additive Manufacturing Methodics. <i>Acta Mechanica Et Automatica</i> , 2018, 12, 141-144.	0.3	4
48	Determination of geometrical and viscoelastic properties of PLA/PHB samples made by additive manufacturing for urethral substitution. <i>Journal of Biotechnology</i> , 2018, 284, 123-130.	1.9	35
49	Implantation of a 3D-printed titanium sternum in a patient with a sternal tumor. <i>World Journal of Surgical Oncology</i> , 2018, 16, 7.	0.8	33
50	Nanocrystalline Magnetic Glass-Coated Microwires Using the Effect of Superparamagnetism Are Usable as Temperature Sensors in Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	6
51	X-ray micro-CT measurement of large parts at very low temperature. <i>Review of Scientific Instruments</i> , 2017, 88, 033707.	0.6	6
52	First clinical results of minimally invasive vector lumbar interbody fusion (MIS-VLIF) in spondylodiscitis and concomitant osteoporosis: a technical note. <i>European Spine Journal</i> , 2017, 26, 3147-3155.	1.0	6
53	Effects of Preoperative Simulation on Minimally Invasive Hybrid Lumbar Interbody Fusion. <i>World Neurosurgery</i> , 2017, 106, 578-588.	0.7	7
54	Influence of Build Orientation, Heat Treatment, and Laser Power on the Hardness of Ti6Al4V Manufactured Using the DMLS Process. <i>Metals</i> , 2017, 7, 318.	1.0	40

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55	Novel Applications of Bistable Magnetic Microwires. Acta Physica Polonica A, 2017, 131, 1150-1152.	0.2	25
56	MECHANICAL PROPERTIES AND POROSITY OF Ti-6Al-4V ALLOY PREPARED BY AM TECHNOLOGY. MM Science Journal, 2017, 2017, 1752-1755.	0.2	9
57	Importance Rat Liver Morphology and Vasculature in Surgical Research. Medical Science Monitor, 2016, 22, 4716-4728.	0.5	17
58	Integration of virtual patients into modernizing activities of medical education across MEFANET. , 2016, , .		2
59	FEA simulation of thermal processes during the direct metal laser sintering of Ti64 titanium powder. Measurement: Journal of the International Measurement Confederation, 2016, 94, 893-901.	2.5	19
60	Evaluation of Postural Stability Using Motion Analysis Techniques. Studies in Computational Intelligence, 2016, , 175-184.	0.7	3
61	Usage of Industrial Computed Tomography for Evaluation of Custom-Made Implants. Studies in Computational Intelligence, 2016, , 29-45.	0.7	4
62	MECHANICAL PROPERTIES OF POWDER CoCrW-ALLOY PREPARED BY AM TECHNOLOGY. MM Science Journal, 2016, 2016, 1586-1589.	0.2	6
63	Automatization of Contact Pressure Measurement between Trunk Orthosis and Patient's Body Using a Matrix Tactile Sensor. Acta Mechanica Et Automatica, 2015, 9, 38-43.	0.3	3
64	Rehabilitation in children with neurological disorders using whole body vibration. , 2015, , .		1
65	Method for Measurement of Residual Stresses using Eddy Currents. Key Engineering Materials, 2015, 669, 409-416.	0.4	2
66	3D cultivation of mesenchymal stromal cells from adipose tissue in alginate beads. , 2015, , .		0
67	Analysis of inclusions at materials by metrotomography. , 2015, , .		0
68	Experimental measuring of the roughness of test samples made using DMLS technology from the titanium alloy Ti-6Al-4V. , 2015, , .		1
69	DIMENSIONAL VERIFICATION AND QUALITY CONTROL OF IMPLANTS PRODUCED BY ADDITIVE MANUFACTURING. Quality Innovation Prosperity, 2015, 19, .	0.5	13
70	Mechanical Properties of Lumbar Bilateral Systems Using Two Different Spinal Rods are Comparable. IFMBE Proceedings, 2015, , 285-289.	0.2	2
71	Stability Evaluation of the Elderly Using a Force Plate. IFMBE Proceedings, 2015, , 305-308.	0.2	1
72	Thermovision application for modulating of local anesthesia. , 2015, , 175-178.		0

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73	Biomechanics of Lower Limb Prostheses. Procedia Engineering, 2014, 96, 382-391.	1.2	23
74	Pressure Distribution in Transtibial Prostheses Socket and the Stump Interface. Procedia Engineering, 2014, 96, 374-381.	1.2	17
75	A Comparison of Mechanical Properties of Lumbar Bilateral Implants Manufactured by Additive and Conventional Technologies. Key Engineering Materials, 2014, 635, 139-142.	0.4	1
76	The Proposal of Stock Items Reconfiguration on the Basis of Cluster Analysis Results. Procedia Engineering, 2014, 96, 143-147.	1.2	1
77	Quantification of postural stability changes in patients with impairments in postural control. , 2014, , .		2
78	EMG system application in muscle parametrization of the upper extremities. , 2014, , .		0
79	Failure analysis of belt conveyor damage caused by the falling material. Part I: Experimental measurements and regression models. Engineering Failure Analysis, 2014, 36, 30-38.	1.8	54
80	A Comparison of the Outputs of 3D Scanners. Procedia Engineering, 2014, 69, 393-401.	1.2	43
81	Somatotypes in Sport. Acta Mechanica Et Automatica, 2014, 8, 27-32.	0.3	10
82	Malignant melanoma in the Czech Republic: Incidence and mortality according to sex, age and disease stage. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 438-446.	0.2	9
83	Influence of Single Whole Body Vibration Training Unit on Kinematics of Human Gait in Children with Neurological Disorders. Communications - Scientific Letters of the University of Zilina, 2014, 16, 105-108.	0.3	1
84	Pitfalls and fallacies interfering with correct identification of embryonic stem cells implanted into the brain after experimental traumatic injury. Journal of Neuroscience Methods, 2013, 215, 60-70.	1.3	17
85	Comparison of optical and laser 3D scanners. , 2013, , .		2
86	Utilization of whole body vibration in therapy of patients with neurological disorders. , 2013, , .		1
87	Failure analysis of belt conveyor damage caused by the falling material. Part II: Application of computer metrotomography. Engineering Failure Analysis, 2013, 34, 431-442.	1.8	30
88	Failure analysis of textile rubber conveyor belt damaged by dynamic wear. Engineering Failure Analysis, 2013, 28, 103-114.	1.8	58
89	MATERIAL AND THERMAL ANALYSIS OF LASER SINTERED PRODUCTS. Acta Mechanica Et Automatica, 2013, 7, 15-19.	0.3	15
90	The use of matrix tactile sensors (MTS) for diagnostics of the efficiency of production, testing and application of a trunk orthosis. , 2012, , .		0

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91	Incidence of cutaneous malignant melanoma in the Czech Republic: The risks of sun exposure for adolescents. <i>Neoplasma</i> , 2012, 59, 316-325.	0.7	10
92	Structural alterations in rabbit spleen after bendiocarb administration. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2011, 46, 788-92.	0.7	3
93	Diagnostic techniques and ways of measuring intra-abdominal pressure. , 2010, , .		0
94	The methodics of medical thermography in the diagnostics of the human body musculoskeletal system. , 2010, , .		5
95	Verification of measuring system for intra " abdominal pressure measurement. , 2010, , .		0
96	Presence of abdominal compartment syndrome at laparoscopic operation. , 2010, , .		0
97	The digital pre-operative planning of total hip replacements. , 2010, , .		12
98	Medical thermography application in neuro-vascular diseases diagnostics. , 2010, , .		5
99	Developmental Potential of the Murine Embryonic Stem Cells Transplanted into the Healthy Rat Brain - Novel Insights into Tumorigenesis. <i>Cellular Physiology and Biochemistry</i> , 2009, 24, 87-94.	1.1	18
100	Methodics of IR Imaging in SCI Individuals Rehabilitation. , 2005, 2005, 6863-6.		3
101	Application of infrared imaging in rehabilitation medicine in spinal cord injured individuals. , 0, , .		1
102	Embedded Tensile Strenght Test Machine FM1000 " An Upgrade of Measurement and Control. <i>Solid State Phenomena</i> , 0, 147-149, 657-662.	0.3	9
103	The Digital Pre-Operative Planning of Hip Surgical Interventions. <i>Solid State Phenomena</i> , 0, 199, 350-355.	0.3	0
104	Influences of Surface Determination for Measurements Obtained by Industrial Computed Tomography. <i>Applied Mechanics and Materials</i> , 0, 683, 142-146.	0.2	8
105	Utilization of Single Whole Body Vibration Training Unit in Rehabilitation of Elderly Patients with Neurological Disorders. , 0, , .		1