

Romuald BÈ©dziÅ,,ski

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

345
citations

933447

10
h-index

839539

18
g-index

30
all docs

30
docs citations

30
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Outer annulus tears have less effect than endplate fracture on stress distributions inside intervertebral discs: Relevance to disc degeneration. <i>Clinical Biomechanics</i> , 2006, 21, 1013-1019.	1.2	51
2	Material and Structural Modeling Aspects of Brain Tissue Deformation under Dynamic Loads. <i>Materials</i> , 2019, 12, 271.	2.9	40
3	Mechanical, rheological, fatigue, and degradation behavior of PLLA, PGLA and PDGLA as materials for vascular implants. <i>Meccanica</i> , 2013, 48, 721-731.	2.0	33
4	Analysis of the Degradation Process of Alginate-Based Hydrogels in Artificial Urine for Use as a Bioresorbable Material in the Treatment of Urethral Injuries. <i>Processes</i> , 2020, 8, 304.	2.8	33
5	Experimental and constitutive modeling approaches for a study of biomechanical properties of human coronary arteries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 50, 1-12.	3.1	24
6	Biomechanical characteristics of the porcine denticulate ligament in different vertebral levels of the cervical spine—Preliminary results of an experimental study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 165-170.	3.1	17
7	The effect of substrate roughness on the surface structure of TiO(2), SiO(2), and doped thin films prepared by the sol-gel method. <i>Acta of Bioengineering and Biomechanics</i> , 2009, 11, 21-9.	0.4	14
8	Biomechanical effect of rapid mucoperiosteal palatal tissue expansion with the use of osmotic expanders. <i>Journal of Biomechanics</i> , 2011, 44, 1313-1320.	2.1	13
9	Novel design of sodium alginate based absorbable stent for the use in urethral stricture disease. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9004-9015.	5.8	13
10	The investigation of the lower limb geometry using 3D sonography and magnetic resonance. Measurement: <i>Journal of the International Measurement Confederation</i> , 2012, 45, 702-710.	5.0	10
11	Accessory genital glands in the New Zealand White rabbit: a morphometrical and histological study. <i>Journal of Veterinary Research (Poland)</i> , 2019, 63, 251-257.	1.0	10
12	The mechanical properties of human dentin for 3-D finite element modeling — numerical and analytical evaluation. <i>Advances in Clinical and Experimental Medicine</i> , 2017, 26, 645-653.	1.4	9
13	Evaluation of Selected Properties of Sodium Alginate-Based Hydrogel Material—Mechanical Strength, 1/4DIC Analysis and Degradation. <i>Materials</i> , 2022, 15, 1225.	2.9	9
14	Numerical Analysis of the Risk of Neck Injuries Caused By IED Explosion under the Vehicle in Military Environments. <i>Acta Mechanica Et Automatica</i> , 2016, 10, 258-264.	0.6	8
15	Improving surgical precision—application of navigation system in orthopedic surgery. <i>Acta of Bioengineering and Biomechanics</i> , 2008, 10, 55-62.	0.4	8
16	Determination of Stent Load Conditions in New Zealand White Rabbit Urethra. <i>Journal of Functional Biomaterials</i> , 2020, 11, 70.	4.4	7
17	The influence of osteoporotic bone structures of the pelvic-hip complex on stress distribution under impact load. <i>Acta of Bioengineering and Biomechanics</i> , 2018, 20, 29-38.	0.4	7
18	New specific metal-silica biocomposites for medical implants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 84-92.	0.9	6

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19	Histological and morphometric evaluation of the urethra and penis in male New Zealand White rabbits. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2021, 50, 136-143.	0.7	6
20	Prediction of the Segmental Pelvic Ring Fractures Under Impact Loadings During Car Crash. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 138-149.	0.6	4
21	Comparative analysis of the deformation characteristics of biodegradable polymers considered as a material for vascular stents. <i>Polimery</i> , 2011, 56, 224.	0.7	4
22	Mechanical properties and dynamics of degradation of polylactide matrix composites with calcium and sodium alginate fibers. <i>Journal of Composite Materials</i> , 2014, 48, 815-824.	2.4	3
23	Pelvic vertical shear fractures: The damping properties of ligaments depending on the velocity of vertical impact load. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
24	Investigation of Helmet-Head Interaction in the Aspect of Craniocerebral Tissue Protection. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 308-315.	0.6	3
25	Biomechanical characteristics of the jump down of healthy subjects and patients with knee injuries. <i>Acta of Bioengineering and Biomechanics</i> , 2015, 17, 111-20.	0.4	3
26	Risk of injury in lumbar spine during explosion of low-mass charge under vehicle. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
27	Protection capabilities of the ankle joint against the consequences of impact load. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
28	An analysis of the effect of impact loading on the destruction of vascular structures in the brain. <i>Acta of Bioengineering and Biomechanics</i> , 2016, 18, 21-31.	0.4	2
29	Analysis of the Lower Limb Model Response Under Impact Load. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 150-162.	0.6	1
30	Characteristics of Nerve Roots Mechanical Properties Exposed to Uniaxial Stretching Tests. <i>Lecture Notes in Networks and Systems</i> , 2022, , 123-131.	0.7	0