

Petra Kochová

List of Publications by Year in descending order

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34
papers

478
citations

840776

11
h-index

713466

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35
all docs

35
docs citations

35
times ranked

772
citing authors

#	ARTICLE	IF	CITATIONS
1	Using virtual microscopy for the development of sampling strategies in quantitative histology and design-based stereology. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2022, 51, 3-22.	0.7	8
2	Decellularization of Porcine Carotid Arteries: From the Vessel to the High-Quality Scaffold in Five Hours. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	4.1	3
3	The time has come to extend the expiration limit of cryopreserved allograft heart valves. <i>Cell and Tissue Banking</i> , 2021, 22, 161-184.	1.1	8
4	Blunt injury of liver: mechanical response of porcine liver in experimental impact test. <i>Physiological Measurement</i> , 2021, 42, 025008.	2.1	5
5	Identification of the LLDPE Constitutive Material Model for Energy Absorption in Impact Applications. <i>Polymers</i> , 2021, 13, 1537.	4.5	2
6	Persistent occiput posterior position and stress distribution in levator ani muscle during vaginal delivery computed by a finite element model. <i>International Urogynecology Journal</i> , 2020, 31, 1315-1324.	1.4	13
7	Mechanical and structural properties of human aortic and pulmonary allografts do not deteriorate in the first 10 years of cryopreservation and storage in nitrogen. <i>Cell and Tissue Banking</i> , 2019, 20, 221-241.	1.1	8
8	The histological microstructure and in vitro mechanical properties of pregnant and postmenopausal ewe perineal body. <i>Menopause</i> , 2019, 26, 1289-1301.	2.0	4
9	The histological microstructure and in vitro mechanical properties of the human female postmenopausal perineal body. <i>Menopause</i> , 2019, 26, 66-77.	2.0	10
10	Generating standardized image data for testing and calibrating quantification of volumes, surfaces, lengths, and object counts in fibrous and porous materials using X-ray microtomography. <i>Microscopy Research and Technique</i> , 2018, 81, 551-568.	2.2	23
11	Numerical and length densities of microvessels in the human brain: Correlation with preferential orientation of microvessels in the cerebral cortex, subcortical grey matter and white matter, pons and cerebellum. <i>Journal of Chemical Neuroanatomy</i> , 2018, 88, 22-32.	2.1	37
12	The composition and biomechanical properties of human cryopreserved aortas, pulmonary trunks, and aortic and pulmonary cusps. <i>Annals of Anatomy</i> , 2017, 212, 17-26.	1.9	14
13	Stereological quantification of microvessels using semiautomated evaluation of X-ray microtomography of hepatic vascular corrosion casts. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1803-1819.	2.8	12
14	A Finite Element Model of an Equine Hoof. <i>Journal of Equine Veterinary Science</i> , 2015, 35, 60-69.	0.9	10
15	Segmental differences in the orientation of smooth muscle cells in the tunica media of porcine aortae. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 315-332.	2.8	10
16	A mathematical model of the carp heart ventricle during the cardiac cycle. <i>Journal of Theoretical Biology</i> , 2015, 373, 12-25.	1.7	7
17	Distribution of orientation of smooth muscle bundles does not change along human great and small varicose veins. <i>Annals of Anatomy</i> , 2014, 196, 67-74.	1.9	3
18	Structural and Mechanical Properties of Gastropod Connective and Smooth Muscle Tissue. <i>Experimental Mechanics</i> , 2014, 54, 791-803.	2.0	7

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19	Time-regulated drug delivery system based on coaxially incorporated platelet α -granules for biomedical use. <i>Nanomedicine</i> , 2013, 8, 1137-1154.	3.3	25
20	A preliminary study into the correlation of stiffness of the laminar junction of the equine hoof with the length density of its secondary lamellae. <i>Equine Veterinary Journal</i> , 2013, 45, 170-175.	1.7	10
21	Thin-Layer Hydroxyapatite Deposition on a Nanofiber Surface Stimulates Mesenchymal Stem Cell Proliferation and Their Differentiation into Osteoblasts. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-10.	3.0	27
22	Cellular Force Microscopy for in Vivo Measurements of Plant Tissue Mechanics $\hat{\hat{A}}$. <i>Plant Physiology</i> , 2012, 158, 1514-1522.	4.8	135
23	The contribution of vascular smooth muscle, elastin and collagen on the passive mechanics of porcine carotid arteries. <i>Physiological Measurement</i> , 2012, 33, 1335-1351.	2.1	33
24	Vasa vasorum quantification in human varicose great and small saphenous veins. <i>Annals of Anatomy</i> , 2012, 194, 473-481.	1.9	16
25	How to asses, visualize and compare the anisotropy of linear structures reconstructed from optical sectionsâ€”A study based on histopathological quantification of human brain microvessels. <i>Journal of Theoretical Biology</i> , 2011, 286, 67-78.	1.7	16
26	Quantification of compact bone microporosities in the basal and alveolar portions of the human mandible using osteocyte lacunar density and area fraction of vascular canals. <i>Annals of Anatomy</i> , 2011, 193, 211-219.	1.9	12
27	Aorta Remodelling Associated with Calcitonin Gene Related Peptide Concentration in Rats with Arterial Hypertension. <i>Acta Veterinaria Brno</i> , 2009, 78, 595-602.	0.5	2
28	MORPHOLOGY AND MECHANICAL PROPERTIES OF THE SUBRENAL AORTA IN NORMOTENSIVE AND HYPERTENSIVE RATS. <i>Biomedical Papers of the Medical Faculty of the University Palacky&#x0301;, Olomouc, Czechoslovakia</i> , 2008, 152, 239-245.	0.6	9
29	Microstructure Oriented Modelling of Hierarchically Perfused Porous Media for Cerebral Blood Flow Evaluation. <i>Key Engineering Materials</i> , 0, 465, 286-289.	0.4	5
30	Microcracks and Mechanical Behaviour of Corio-Epidermal Junction of Equine Hoof. <i>Key Engineering Materials</i> , 0, 465, 342-345.	0.4	2
31	Multiscale Heterogeneity of Bone Microporosities and Tissue Scaffolds. <i>Key Engineering Materials</i> , 0, 592-593, 350-353.	0.4	0
32	Quantification of Liver Microcirculation Using X-Ray Microtomography of Vascular Corrosion Casts. <i>Key Engineering Materials</i> , 0, 592-593, 505-508.	0.4	0
33	Links between the Orientation of Vascular Smooth Muscle and Microscopical Composition of Aortic Segments. <i>Solid State Phenomena</i> , 0, 258, 329-332.	0.3	0
34	Histological Composition and Mechanical Properties of Cryopreserved Samples of Aortic and Pulmonary Valves. <i>Solid State Phenomena</i> , 0, 258, 341-344.	0.3	2