

Ricardo Bernhardt

List of Publications by Year in descending order

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42
papers

1,561
citations

279798

23
h-index

345221

36
g-index

43
all docs

43
docs citations

43
times ranked

2523
citing authors

#	ARTICLE	IF	CITATIONS
1	First-Time Investigations on Cavitation in Rubber Parts Subjected to Constrained Tension Using In Situ Synchrotron X-Ray Microtomography (SR- μ CT). <i>Advanced Engineering Materials</i> , 2021, 23, 2001347.	3.5	7
2	Non-invasive morphological characterization of cellular loofa sponges using digital microscopy and micro-CT. <i>International Journal of Chemical Reactor Engineering</i> , 2021, .	1.1	0
3	Experimental study on cavitation in rubber vulcanizates subjected to constrained tensile deformation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	1
4	In situ dilatometry and X-ray microtomography study on the formation and growth of cavities in unfilled styrene-butadiene-rubber vulcanizates subjected to constrained tensile deformation. <i>Polymer</i> , 2020, 187, 122086.	3.8	15
5	Determination of the Entire Stent Surface Area by a New Analytical Method. <i>Materials</i> , 2020, 13, 5633.	2.9	3
6	Application of μ CT for the Determination of Total Surface Area of Stents. , 2019, , .		1
7	Increased pore size of scaffolds improves coating efficiency with sulfated hyaluronan and mineralization capacity of osteoblasts. <i>Biomaterials Research</i> , 2019, 23, 26.	6.9	32
8	Optimizing Process Parameters in Commercial Micro- μ CT Stereolithography for Forming Emulsions and Polymer Microparticles in Nonplanar Microfluidic Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800408.	5.8	35
9	Synergistic effect of bimodal pore distribution and artificial extracellular matrices in polymeric scaffolds on osteogenic differentiation of human mesenchymal stem cells. <i>Materials Science and Engineering C</i> , 2019, 97, 12-22.	7.3	11
10	Influence of estrogen on individual exercise motivation and bone protection in ovariectomized rats. <i>Laboratory Animals</i> , 2018, 52, 479-489.	1.0	11
11	A standardized <i>Humulus lupulus</i> (L.) ethanol extract partially prevents ovariectomy-induced bone loss in the rat without induction of adverse effects in the uterus. <i>Phytomedicine</i> , 2017, 34, 50-58.	5.3	24
12	Collagen/glycosaminoglycan coatings enhance new bone formation in a critical size bone defect – A pilot study in rats. <i>Materials Science and Engineering C</i> , 2017, 71, 84-92.	7.3	33
13	The effect of SDF on low dose BMP mediated bone regeneration by release from heparinized mineralized collagen type I matrix scaffolds in a murine critical size bone defect model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2126-2134.	4.0	39
14	Sulfated hyaluronan improves bone regeneration of diabetic rats by binding sclerostin and enhancing osteoblast function. <i>Biomaterials</i> , 2016, 96, 11-23.	11.4	55
15	WNT5A Has Anti-Prostate Cancer Effects In Vitro and Reduces Tumor Growth in the Skeleton In Vivo. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 471-480.	2.8	42
16	Loss of bone strength in HLA-B27 transgenic rats is characterized by a high bone turnover and is mainly osteoclast-driven. <i>Bone</i> , 2015, 75, 183-191.	2.9	9
17	Highly adjustable biomaterial networks from three-armed biodegradable macromers. <i>Acta Biomaterialia</i> , 2015, 26, 82-96.	8.3	12
18	Periosteal microcirculatory reactions in a zoledronate-induced osteonecrosis model of the jaw in rats. <i>Clinical Oral Investigations</i> , 2015, 19, 1279-1288.	3.0	17

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19	Healing properties of surface-coated polycaprolactone-co-lactide scaffolds: A pilot study in sheep. <i>Journal of Biomaterials Applications</i> , 2014, 28, 654-666.	2.4	25
20	Effects of Parathyroid Hormone on Bone Mass, Bone Strength, and Bone Regeneration in Male Rats With Type 2 Diabetes Mellitus. <i>Endocrinology</i> , 2014, 155, 1197-1206.	2.8	62
21	Impact of a functionalized olive oil extract on the uterus and the bone in a model of postmenopausal osteoporosis. <i>European Journal of Nutrition</i> , 2014, 53, 1073-1081.	3.9	31
22	Increased bone remodelling around titanium implants coated with chondroitin sulfate in ovariectomized rats. <i>Acta Biomaterialia</i> , 2014, 10, 2855-2865.	8.3	29
23	Comparison of estrogenic responses in bone and uterus depending on the parity status in Lewis rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 133, 101-109.	2.5	9
24	Establishment of a femoral critical-size bone defect model in immunodeficient mice. <i>Journal of Surgical Research</i> , 2013, 181, e7-e14.	1.6	55
25	Sclerostin antibody treatment improves bone mass, bone strength, and bone defect regeneration in rats with type 2 diabetes mellitus. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 627-638.	2.8	105
26	Surface modification of implants in long bone. <i>Biomatter</i> , 2012, 2, 149-157.	2.6	55
27	Embroidered and surface coated polycaprolactone-co-lactide scaffolds. <i>Biomatter</i> , 2012, 2, 158-165.	2.6	27
28	Regulation of bone mass and osteoclast function depend on the F-actin modulator SWAP-70. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2085-2096.	2.8	40
29	Estimation of an early meaningful time point of bone parameter changes in application to an osteoporotic rat model with in vivo microcomputed tomography measurements. <i>Laboratory Animals</i> , 2012, 46, 237-244.	1.0	13
30	Open porous microscaffolds for cellular and tissue engineering by lipid templating. <i>Acta Biomaterialia</i> , 2012, 8, 1303-1315.	8.3	20
31	Comparison of bone-implant contact and bone-implant volume between 2D-histological sections and 3D-SR μ CT slices. , 2012, 23, 237-248.		94
32	Delayed bone regeneration and low bone mass in a rat model of insulin-resistant type 2 diabetes mellitus is due to impaired osteoblast function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E1220-E1228.	3.5	123
33	Bioactive silica-collagen composite xerogels modified by calcium phosphate phases with adjustable mechanical properties for bone replacement. <i>Acta Biomaterialia</i> , 2009, 5, 1979-1990.	8.3	100
34	Cathepsin K deficiency partially inhibits, but does not prevent, bone destruction in human tumor necrosis factor α -transgenic mice. <i>Arthritis and Rheumatism</i> , 2008, 58, 422-434.	6.7	33
35	Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. <i>International Journal of Materials Research</i> , 2007, 98, 613-621.	0.3	44
36	Influence of extracellular matrix coatings on implant stability and osseointegration: An animal study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 222-231.	3.4	51

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37	In vivo effects of coating loaded and unloaded Ti implants with collagen, chondroitin sulfate, and hydroxyapatite in the sheep tibia. Journal of Orthopaedic Research, 2007, 25, 1052-1061.	2.3	58
38	3D analysis of bone formation around titanium implants using micro computed tomography (µCT). , 2006, , .		4
39	Osteoconductive modifications of Ti-implants in a goat defect model: characterization of bone growth with SR µCT and histology. Biomaterials, 2005, 26, 3009-3019.	11.4	93
40	Coating of titanium implants with type I collagen. Journal of Orthopaedic Research, 2004, 22, 1025-1034.	2.3	112
41	DAS IN VITRO ENTZÄNDUNGSVERHALTEN VON ZELLEN IM KONTAKT MIT MODIFIZIERTEN TITANIMPLANTATEN. Biomedizinische Technik, 2003, 48, 400-401.	0.8	0
42	Nondestructive three-dimensional evaluation of biocompatible materials by microtomography using synchrotron radiation. , 2002, , .		31