Ricardo Bernhardt

List of Publications by Year
in descending order

42	1,561	279798 23	345221 36
papers	citations	h-index	g-index

43	43	43	2523
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Delayed bone regeneration and low bone mass in a rat model of insulin-resistant type 2 diabetes mellitus is due to impaired osteoblast function. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E1220-E1228.	3.5	123
2	Coating of titanium implants with typeâ€‰collagen. Journal of Orthopaedic Research, 2004, 22, 1025-1034.	2.3	112
3	Sclerostin antibody treatment improves bone mass, bone strength, and bone defect regeneration in rats with type 2 diabetes mellitus. Journal of Bone and Mineral Research, 2013, 28, 627-638.	2.8	105
4	Bioactive silicaâ€“collagen composite xerogels modified by calcium phosphate phases with adjustable mechanical properties for bone replacement. Acta Biomaterialia, 2009, 5, 1979-1990.	8.3	100
5	Comparison of bone-implant contact and bone-implant volume between 2D-histological sections and 3D-SRÂµCT slices. , 2012, 23, 237-248.		94
6	Osteoconductive modifications of Ti-implants in a goat defect model: characterization of bone growth with SR Î¼CT and histology. Biomaterials, 2005, 26, 3009-3019.	11.4	93
7	Effects of Parathyroid Hormone on Bone Mass, Bone Strength, and Bone Regeneration in Male Rats With Type 2 Diabetes Mellitus. Endocrinology, 2014, 155, 1197-1206.	2.8	62
8	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
9	Surface modification of implants in long bone. Biomatter, 2012, 2, 149-157.	2.6	55
10	Establishment of a femoral critical-size bone defect model in immunodeficient mice. Journal of Surgical Research, 2013, 181, e7-e14.	1.6	55
11	Sulfated hyaluronan improves bone regeneration of diabetic rats by binding sclerostin and enhancing osteoblast function. Biomaterials, 2016, 96, 11-23.	11.4	55
12	Influence of extracellular matrix coatings on implant stability and osseointegration: An animal study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 83B, 222-231.	3.4	51
13	Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. International Journal of Materials Research, 2007, 98, 613-621.	0.3	44
14	WNT5A Has Anti-Prostate Cancer Effects In Vitro and Reduces Tumor Growth in the Skeleton In Vivo. Journal of Bone and Mineral Research, 2015, 30, 471-480.	2.8	42
15	Regulation of bone mass and osteoclast function depend on the F-actin modulator SWAP-70. Journal of Bone and Mineral Research, 2012, 27, 2085-2096.	2.8	40
16	The effect of SDFâ€‰Î± on low dose BMPâ€‰mediated bone regeneration by release from heparinized mineralized collagen type I matrix scaffolds in a murine critical size bone defect model. Journal of Biomedical Materials Research - Part A, 2016, 104, 2126-2134.	4.0	39
17	Optimizing Process Parameters in Commercial Microâ€Stereolithography for Forming Emulsions and Polymer Microparticles in Nonplanar Microfluidic Devices. Advanced Materials Technologies, 2019, 4, 1800408.	5.8	35
18	Cathepsin K deficiency partially inhibits, but does not prevent, bone destruction in human tumor necrosis factorâ€“transgenic mice. Arthritis and Rheumatism, 2008, 58, 422-434.	6.7	33

#	Article	IF	Citations
19	Collagen/glycosaminoglycan coatings enhance new bone formation in a critical size bone defect â€" A pilot study in rats. Materials Science and Engineering C, 2017, 71, 84-92.	7.3	33
20	Increased pore size of scaffolds improves coating efficiency with sulfated hyaluronan and mineralization capacity of osteoblasts. Biomaterials Research, 2019, 23, 26.	6.9	32
21	Nondestructive three-dimensional evaluation of biocompatible materials by microtomography using synchrotron radiation. , 2002, , .		31
22	Impact of a functionalized olive oil extract on the uterus and the bone in a model of postmenopausal osteoporosis. European Journal of Nutrition, 2014, 53, 1073-1081.	3.9	31
23	Increased bone remodelling around titanium implants coated with chondroitin sulfate in ovariectomized rats. Acta Biomaterialia, 2014, 10, 2855-2865.	8.3	29
24	Embroidered and surface coated polycaprolactone-co-lactide scaffolds. Biomatter, 2012, 2, 158-165.	2.6	27
25	Healing properties of surface-coated polycaprolactone-co-lactide scaffolds: A pilot study in sheep. Journal of Biomaterials Applications, 2014, 28, 654-666.	2.4	25
26	A standardized Humulus lupulus (L.) ethanol extract partially prevents ovariectomy-induced bone loss in the rat without induction of adverse effects in the uterus. Phytomedicine, 2017, 34, 50-58.	5.3	24
27	Open porous microscaffolds for cellular and tissue engineering by lipid templating. Acta Biomaterialia, 2012, 8, 1303-1315.	8.3	20
28	Periosteal microcirculatory reactions in a zoledronate-induced osteonecrosis model of the jaw in rats. Clinical Oral Investigations, 2015, 19, 1279-1288.	3.0	17
29	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. Polymer, 2020, 187, 122086.	3.8	15
30	Estimation of an early meaningful time point of bone parameter changes in application to an osteoporotic rat model with in vivo microcomputed tomography measurements. Laboratory Animals, 2012, 46, 237-244.	1.0	13
31	Highly adjustable biomaterial networks from three-armed biodegradable macromers. Acta Biomaterialia, 2015, 26, 82-96.	8.3	12
32	Influence of estrogen on individual exercise motivation and bone protection in ovariectomized rats. Laboratory Animals, 2018, 52, 479-489.	1.0	11
33	Synergistic effect of bimodal pore distribution and artificial extracellular matrices in polymeric scaffolds on osteogenic differentiation of human mesenchymal stem cells. Materials Science and Engineering C, 2019, 97, 12-22.	7.3	11
34	Comparison of estrogenic responses in bone and uterus depending on the parity status in Lewis rats. Journal of Steroid Biochemistry and Molecular Biology, 2013, 133, 101-109.	2.5	9
35	Loss of bone strength in HLA-B27 transgenic rats is characterized by a high bone turnover and is mainly osteoclast-driven. Bone, 2015, 75, 183-191.	2.9	9
36	Firstâ€Time Investigations on Cavitation in Rubber Parts Subjected to Constrained Tension Using In Situ Synchrotron Xâ€Ray Microtomography (SRÎ¼CT). Advanced Engineering Materials, 2021, 23, 2001347.	3.5	7

#	Article	IF	Citations
37	3D analysis of bone formation around titanium implants using micro computed tomography (Î¼CT). , 2006, , .		4
38	Determination of the Entire Stent Surface Area by a New Analytical Method. Materials, 2020, 13, 5633.	2.9	3
39	Application of ÂµCT for the Determination of Total Surface Area of Stents. , 2019, , .		1
40	Experimental study on cavitation in rubber vulcanizates subjected to constrained tensile deformation. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
41	DAS IN VITRO ENTZÃœNDUNGSVERHALTEN VON ZELLEN IM KONTAKT MIT MODIFIZIERTEN TITANIMPLANTATEN. Biomedizinische Technik, 2003, 48, 400-401.	0.8	0
42	Non-invasive morphological characterization of cellular loofa sponges using digital microscopy and micro-CT. International Journal of Chemical Reactor Engineering, 2021, .	1.1	0