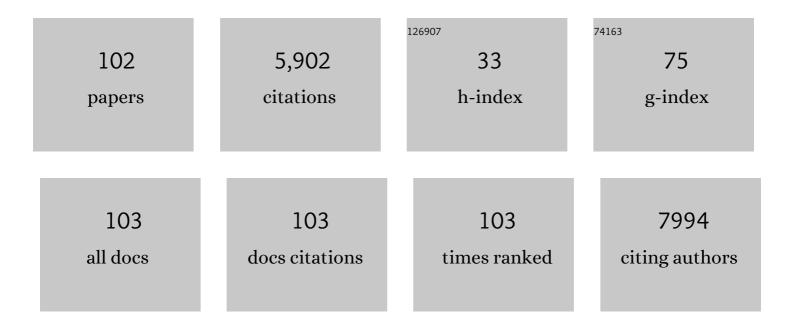
Reinhard Schnettler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	RECOMBINANT HUMAN BONE MORPHOGENETIC PROTEIN-2 FOR TREATMENT OF OPEN TIBIAL FRACTURES. Journal of Bone and Joint Surgery - Series A, 2002, 84, 2123-2134.	3.0	1,092
2	An in vitro assessment of the antibacterial properties and cytotoxicity of nanoparticulate silver bone cement. Biomaterials, 2004, 25, 4383-4391.	11.4	831
3	Delayed union and nonunions: Epidemiology, clinical issues, and financial aspects. Injury, 2014, 45, S3-S7.	1.7	445
4	Nanocrystalline hydroxyapatite and calcium sulphate as biodegradable composite carrier material for local delivery of antibiotics in bone infections. Biomaterials, 2005, 26, 2677-2684.	11.4	345
5	Biocompatibility of silver nanoparticles and silver ions in primary human mesenchymal stem cells and osteoblasts. Acta Biomaterialia, 2014, 10, 439-449.	8.3	234
6	The effects of combined gentamicin–hydroxyapatite coating for cementless joint prostheses on the reduction of infection rates in a rabbit infection prophylaxis model. Biomaterials, 2006, 27, 4627-4634.	11.4	166
7	Bone formation induced by strontium modified calcium phosphate cement in critical-size metaphyseal fracture defects in ovariectomized rats. Biomaterials, 2013, 34, 8589-8598.	11.4	161
8	Applications of Metals for Bone Regeneration. International Journal of Molecular Sciences, 2018, 19, 826.	4.1	159
9	Human reaming debris: a source of multipotent stem cells. Bone, 2005, 36, 74-83.	2.9	139
10	An introduction to bone tissue engineering. International Journal of Artificial Organs, 2020, 43, 69-86.	1.4	107
11	Clinical and prognostic role of annexin A2 in multiple myeloma. Blood, 2012, 120, 1087-1094.	1.4	81
12	Bone ingrowth in bFGF-coated hydroxyapatite ceramic implants. Biomaterials, 2003, 24, 4603-4608.	11.4	79
13	A new metaphyseal bone defect model in osteoporotic rats to study biomaterials for the enhancement of bone healing in osteoporotic fractures. Acta Biomaterialia, 2013, 9, 7035-7042.	8.3	76
14	Strontium and bisphosphonate coated iron foam scaffolds for osteoporotic fracture defect healing. Biomaterials, 2018, 157, 1-16.	11.4	75
15	Elastic softening of β-type Ti–Nb alloys by indium (In) additions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 162-174.	3.1	73
16	Expression of non-neuronal cholinergic system in osteoblast-like cells and its involvement in osteogenesis. Cell and Tissue Research, 2009, 338, 203-215.	2.9	70
17	Additive Manufacturing for Guided Bone Regeneration: A Perspective for Alveolar Ridge Augmentation. International Journal of Molecular Sciences, 2018, 19, 3308.	4.1	65
18	Improved In Vitro Test Procedure for Full Assessment of the Cytocompatibility of Degradable Magnesium Based on ISO 10993-5/-12. International Journal of Molecular Sciences, 2019, 20, 255.	4.1	63

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19	Bone Adhesives in Trauma and Orthopedic Surgery. European Journal of Trauma and Emergency Surgery, 2006, 32, 141-148.	0.3	61
20	In Vivo Analysis of the Biocompatibility and Macrophage Response of a Non-Resorbable PTFE Membrane for Guided Bone Regeneration. International Journal of Molecular Sciences, 2018, 19, 2952.	4.1	58
21	The Biocompatibility of Degradable Magnesium Interference Screws: An Experimental Study with Sheep. BioMed Research International, 2015, 2015, 1-15.	1.9	54
22	BDNF and its TrkB receptor in human fracture healing. Annals of Anatomy, 2014, 196, 286-295.	1.9	52
23	In Vitro Testing of Antimicrobial Activity of Bone Cement. Antimicrobial Agents and Chemotherapy, 2004, 48, 4084-4088.	3.2	49
24	Immunochemical, ultrastructural and electrophysiological investigations of bone-derived stem cells in the course of neuronal differentiation. Bone, 2006, 38, 911-921.	2.9	48
25	A health economic analysis of the use of rhBMP-2 in Gustilo–Anderson grade III open tibial fractures for the UK, Germany, and France. Injury, 2009, 40, 1269-1275.	1.7	48
26	The tissue response to an alkylene bis(dilactoyl)-methacrylate bone adhesive. Biomaterials, 2005, 26, 1389-1396.	11.4	45
27	Induction of osteoporosis with its influence on osteoporotic determinants and their interrelationships in rats by DEXA. Medical Science Monitor, 2012, 18, BR199-BR207.	1.1	44
28	Effects of gentamicin and gentamicin–RGD coatings on bone ingrowth and biocompatibility of cementless joint prostheses: An experimental study in rabbits. Acta Biomaterialia, 2011, 7, 1274-1280.	8.3	42
29	Differences of bone healing in metaphyseal defect fractures between osteoporotic and physiological bone in rats. Injury, 2014, 45, 487-493.	1.7	42
30	Purification processes of xenogeneic bone substitutes and their impact on tissue reactions and regeneration. International Journal of Artificial Organs, 2018, 41, 789-800.	1.4	42
31	A new animal model for implant-related infected non-unions after intramedullary fixation of the tibia in rats with fluorescent in situ hybridization of bacteria in bone infection. Bone, 2011, 48, 1146-1153.	2.9	40
32	Biocompatibility of magnesium implants in primary human reaming debris-derived cells stem cells in vitro. Journal of Orthopaedics and Traumatology, 2016, 17, 63-73.	2.3	38
33	Effects of Multi-Deficiencies-Diet on Bone Parameters of Peripheral Bone in Ovariectomized Mature Rat. PLoS ONE, 2013, 8, e71665.	2.5	36
34	Biphasic scaffolds for repair of deep osteochondral defects in a sheep model. Journal of Surgical Research, 2013, 183, 184-192.	1.6	35
35	Calcium Phosphate-Based Bone Substitutes. European Journal of Trauma and Emergency Surgery, 2004, 30, 219.	0.3	32
36	Assessment of angiogenesis in osseointegration of a silica–collagen biomaterial using 3D-nano-CT. Acta Biomaterialia, 2011, 7, 3773-3779.	8.3	30

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37	TLR9 mediates S. aureus killing inside osteoblasts via induction of oxidative stress. BMC Microbiology, 2016, 16, 230.	3.3	29
38	Ag/SiO _x C _y plasma polymer coating for antimicrobial protection of fracture fixation devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 196-202.	3.4	28
39	Expression of choline and acetylcholine transporters in synovial tissue and cartilage of patients with rheumatoid arthritis and osteoarthritis. Cell and Tissue Research, 2015, 359, 465-477.	2.9	28
40	Bone formation and degradation behavior of nanocrystalline hydroxyapatite with or without collagen-type 1 in osteoporotic bone defects – an experimental study in osteoporotic goats. Injury, 2016, 47, S58-S65.	1.7	27
41	Treatment of Periprosthetic Femoral Fractures by Effective Lengthening of the Prosthesis. Clinical Orthopaedics and Related Research, 2007, 463, 120-127.	1.5	26
42	Observations on the microvasculature of bone defects filled with biodegradable nanoparticulate hydroxyapatite. Biomaterials, 2008, 29, 3429-3437.	11.4	25
43	Quantitative analyses of bone composition in acetylcholine receptor M3R and alpha7 knockout mice. Life Sciences, 2012, 91, 997-1002.	4.3	25
44	Negative Influence of a Long-Term High-Fat Diet on Murine Bone Architecture. International Journal of Endocrinology, 2014, 2014, 1-9.	1.5	25
45	Bone Matrix, Cellularity, and Structural Changes in a Rat Model with High-Turnover Osteoporosis Induced by Combined Ovariectomy and a Multiple-Deficient Diet. American Journal of Pathology, 2014, 184, 765-777.	3.8	24
46	New blood vessel formation and expression of VEGF receptors after implantation of platelet growth factor-enriched biodegradable nanocrystalline hydroxyapatite. Growth Factors, 2005, 23, 125-133.	1.7	21
47	Evaluation of New Bone Formation in Normal and Osteoporotic Rats with a 3-mm Femur Defect: Functional Assessment with Dynamic PET-CT (dPET-CT) Using 2-Deoxy-2-[18F]Fluoro-d-glucose (18F-FDG) and 18F-Fluoride. Molecular Imaging and Biology, 2013, 15, 336-344.	2.6	21
48	Rifampicin–fosfomycin coating for cementless endoprostheses: Antimicrobial effects against methicillin-sensitive Staphylococcus aureus (MSSA) and methicillin-resistant Staphylococcus aureus (MRSA). Acta Biomaterialia, 2014, 10, 4518-4524.	8.3	20
49	Effects of macroporous, strontium loaded xerogel-scaffolds on new bone formation in critical-size metaphyseal fracture defects in ovariectomized rats. Injury, 2016, 47, S52-S61.	1.7	20
50	Implications of combined Ovariectomy/Multi-Deficiency Diet on rat bone with age-related variation in Bone Parameters and Bone Loss at Multiple Skeletal Sites by DEXA. Medical Science Monitor Basic Research, 2013, 19, 76-86.	2.6	18
51	Expression of the non-neuronal cholinergic system in human knee synovial tissue from patients with rheumatoid arthritis and osteoarthritis. Life Sciences, 2012, 91, 1048-1052.	4.3	17
52	Calibration of cone beam CT using relative attenuation ratio for quantitative assessment of bone density: a small animal study. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 733-739.	2.8	17
53	Enhanced osteogenesis on titanium implants by UVB photofunctionalization of hydrothermally grown TiO ₂ coatings. Journal of Biomaterials Applications, 2015, 30, 71-84.	2.4	17
54	Impaired extracellular matrix structure resulting from malnutrition in ovariectomized mature rats. Histochemistry and Cell Biology, 2015, 144, 491-507.	1.7	17

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55	Comparison of new bone formation, implant integration, and biocompatibility between RGDâ€hydroxyapatite and pure hydroxyapatite coating for cementless joint prostheses—An experimental study in rabbits. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 66-74.	3.4	16
56	Comparison of Material-mediated Bone Regeneration Capacities of Sintered and Non-sintered Xenogeneic Bone Substitutes <i>via</i> 2D and 3D Data. In Vivo, 2019, 33, 2169-2179.	1.3	16
57	Effect of glycerol-l-lactide coating polymer on bone ingrowth of bFGF-coated hydroxyapatite implants. Journal of Controlled Release, 2004, 99, 103-111.	9.9	15
58	Dendritic Glycopolymer as Drug Delivery System for Proteasome Inhibitor Bortezomib in a Calcium Phosphate Bone Cement: First Steps Toward a Local Therapy of Osteolytic Bone Lesions. Macromolecular Bioscience, 2015, 15, 1283-1295.	4.1	15
59	Small changes in bone structure of female α7 nicotinic acetylcholine receptor knockout mice. BMC Musculoskeletal Disorders, 2015, 16, 5.	1.9	15
60	Polymicrobial infections and microbial patterns in infected nonunions – a descriptive analysis of 42 cases. BMC Infectious Diseases, 2020, 20, 667.	2.9	14
61	Application of F-18-Sodium Fluoride (NaF) Dynamic PET-CT (dPET-CT) for Defect Healing: A Comparison of Biomaterials in an Experimental Osteoporotic Rat Model. Medical Science Monitor, 2014, 20, 1942-1949.	1.1	14
62	Connexin 43 expression of foreign body giant cells after implantation of nanoparticulate hydroxyapatite. Biomaterials, 2007, 28, 4912-4921.	11.4	13
63	Enhancement of bone formation in hydroxyapatite implants by rhBMPâ€⊋ coating. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 75-81.	3.4	13
64	Phosphoserine-modified calcium phosphate cements: bioresorption and substitution. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 11-19.	2.7	13
65	Quantitative assessment of microcirculation and diffusion in the bone marrow of osteoporotic rats using VCT, DCE-MRI, DW-MRI, and histology. Acta Radiologica, 2013, 54, 205-213.	1.1	13
66	Preliminary evaluation of different biomaterials for defect healing in an experimental osteoporotic rat model with dynamic PET-CT (dPET-CT) using F-18-Sodium Fluoride (NaF). Injury, 2014, 45, 501-505.	1.7	13
67	Impact of prophylactic CpG Oligodeoxynucleotide application on implant-associated Staphylococcus aureus bone infection. Bone, 2015, 78, 194-202.	2.9	13
68	Histological Comparison of New Biodegradable Magnesium-Based Implants for Maxillofacial Applications. Journal of Maxillofacial and Oral Surgery, 2015, 14, 637-645.	1.4	13
69	Cell behavior of human mesenchymal stromal cells in response to silica/collagen based xerogels and calcium deficient culture conditions. Biomedical Materials (Bristol), 2017, 12, 045003.	3.3	13
70	Biodegradable βâ€Triâ€Calciumphosphate/hydroxyethyl methacrylate enhanced three component bone adhesive demonstrates biocompatibility without evidence of systemic toxicity in a rabbit model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 767-777.	3.4	12
71	Osteoporosis influences osteogenic but not angiogenic response during bone defect healing in a rat model. Injury, 2013, 44, 923-929.	1.7	12
72	Silver nanoparticles do not alter human osteoclastogenesis but induce cellular uptake. Toxicology Reports, 2014, 1, 900-908.	3.3	12

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73	Local Delivery of Antibiotics in the Surgical Treatment of Bone Infections. Techniques in Orthopaedics, 2015, 30, 230-235.	0.2	12
74	Safety assessment of microsilver-loaded poly(methyl methacrylate) (PMMA) cement spacers in patients with prosthetic hip infections. Bone and Joint Research, 2019, 8, 387-396.	3.6	12
75	Pyrocarbon spacer as a trapezium replacement for arthritis of the trapeziometacarpal joint; a follow-up study of 60 cases. Acta Orthopaedica Belgica, 2013, 79, 648-54.	0.4	12
76	Bone status of acetylcholinesterase-knockout mice. International Immunopharmacology, 2015, 29, 222-230.	3.8	11
77	Bioresorbierbare Klebstoffe in der operativen. BIOmaterialien: Offizielles Organ Der Deutschen Gesellschaft Fuer Biomaterialien, 2003, 4, .	0.1	10
78	Treatment of a Double Nonunion of the Femur by rhBMP-2. Journal of Orthopaedic Trauma, 2007, 21, 734-737.	1.4	10
79	Characterization of bone turnover and energy metabolism in a rat model of primary and secondary osteoporosis. Experimental and Toxicologic Pathology, 2015, 67, 287-296.	2.1	10
80	In Vitro and In Vivo Biocompatibility Studies of a Cast and Coated Titanium Alloy. Molecules, 2020, 25, 3399.	3.8	10
81	Allogenous bone with collagen for repair of deep osteochondral defects. Journal of Surgical Research, 2013, 185, 667-675.	1.6	9
82	Expression of muscarinic acetylcholine receptors M3 and M5 in osteoporosis. Medical Science Monitor, 2014, 20, 869-874.	1.1	9
83	The role of soft-tissue traction forces in bone segment transport for callus distraction. Strategies in Trauma and Limb Reconstruction, 2015, 10, 21-26.	0.8	8
84	Light- and transmission-electron-microscopic investigations on distribution of CD44, connexin 43 and actin cytoskeleton during the foreign body reaction to a nanoparticular hydroxyapatite in mini-pigs. Acta Biomaterialia, 2012, 8, 2807-2814.	8.3	7
85	Effects of dendritic core–shell glycoarchitectures on primary mesenchymal stem cells and osteoblasts obtained from different human donors. Journal of Nanobiotechnology, 2015, 13, 65.	9.1	7
86	Evaluation of bone remodeling with (18)F-fluoride and correlation with the glucose metabolism measured by (18)F-FDG in lumbar spine with time in an experimental nude rat model with osteoporosis using dynamic PET-CT. American Journal of Nuclear Medicine and Molecular Imaging, 2013, 3, 118-28.	1.0	7
87	Glycerol-l-lactide coating polymer leads to delay in bone ingrowth in hydroxyapatite implants. Journal of Controlled Release, 2005, 106, 154-161.	9.9	6
88	Nanocrystalline hydroxyapatite facilitates bone apposition to polymethylmethacrylate: Histological investigation using a sheep model. Journal of Orthopaedic Research, 2012, 30, 1290-1295.	2.3	6
89	Effects of testosterone and 17β-estradiol on osteogenic and adipogenic differentiation capacity of human bone-derived mesenchymal stromal cells of postmenopausal women. Bone Reports, 2019, 11, 100226.	0.4	6
90	Surgical treatment outcome after serial debridement of infected nonunion—A retrospective cohort study. European Journal of Orthopaedic Surgery and Traumatology, 2022, 32, 183-189.	1.4	6

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91	Drug Release as a function of bioactivity, incubation regime, liquid, and initial load: Release of bortezomib from calcium phosphateâ€containing silica/collagen xerogels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1165-1173.	3.4	6
92	Effects of platelet factors on biodegradation and osteogenesis in metaphyseal defects filled with nanoparticular hydroxyapatite—an experimental study in minipigs. Growth Factors, 2007, 25, 191-201.	1.7	5
93	Bond Strength of an Alkylene Bis(dilactoyl)-Methacrylate Bone Adhesive: a Biomechanical Evaluation in Sheep. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1345-1358.	3.5	5
94	A novel intramedullary callus distraction system for the treatment of femoral bone defects. Strategies in Trauma and Limb Reconstruction, 2016, 11, 113-121.	0.8	5
95	Treatment Strategies in Thoracolumbar Vertebral Fractures: Are there Indications for Biomaterials?. European Journal of Trauma and Emergency Surgery, 2006, 32, 253-257.	0.3	4
96	Importance of Mechanoreceptors and Other Neural Structures Within the Anterior Intermeniscal Ligament in the Etiology of Anterior Knee Pain After Tibial Nailing. Journal of Orthopaedic Trauma, 2018, 32, 526-533.	1.4	2
97	Anterior intermeniscal ligament: frequency in MRI studies and spatial relationship to the entry point for intramedullary tibial nailing related to the risk of iatrogenic violation. European Journal of Trauma and Emergency Surgery, 2020, 46, 1085-1092.	1.7	2
98	Podoplanin Immunopositive Lymphatic Vessels at the Implant Interface in a Rat Model of Osteoporotic Fractures. PLoS ONE, 2013, 8, e77259.	2.5	2
99	Synergistic Toxicity of Gentamicin- and Nanosilver-Doped Polymethylmethacrylate Bone Cement on Primary Human Osteoclasts. Cells Tissues Organs, 2014, 199, 384-392.	2.3	1
100	Ein β-TCP angereicherter Knochenklebstoff. BlOmaterialien: Offizielles Organ Der Deutschen Gesellschaft Fuer Biomaterialien, 2008, 9, .	0.1	0
101	Biomaterials for enhancement of bone healing in osteoporotic fractures. BioNanoMaterials, 2013, 14, .	1.4	0
102	Triple fracture during rehabilitation after revision total knee arthroplasty. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 2662-2664.	4.2	0