# Dieter Scharnweber

List of Publications by Year
in descending order



| 127 | 6,261 | 57758 | 74163 |
|---|---|---|---|
| papers | citations | 44 h-index | 75 g-index |

| 127 | 127 | 127 | 7747 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Immune responses to implants â€“ A review of the implications for the design of immunomodulatory biomaterials. Biomaterials, 2011, 32, 6692-6709. | 11.4 | 1,114 |
| 2 | Coating of titanium implants with collagen, RGD peptide and chondroitin sulfate. Biomaterials, 2006, 27, 5561-5571. | 11.4 | 265 |
| 3 | Fibrillogenesis of Collagen Types I, II, and III with Small Leucine-Rich Proteoglycans Decorin and Biglycan. Biomacromolecules, 2006, 7, 2388-2393. | 5.4 | 150 |
| 4 | Effect of RGD peptide coating of titanium implants on periimplant bone formation in the alveolar crest. Clinical Oral Implants Research, 2002, 13, 312-319. | 4.5 | 148 |
| 5 | Modifications of Hyaluronan Influence the Interaction with Human Bone Morphogenetic Protein-4 (hBMP-4). Biomacromolecules, 2009, 10, 3290-3297. | 5.4 | 127 |
| 6 | Effect of immobilized bone morphogenic protein 2 coating of titanium implants on peri-implant bone formation. Clinical Oral Implants Research, 2005, 16, 563-569. | 4.5 | 125 |
| 7 | Hyaluronan/collagen hydrogels containing sulfated hyaluronan improve wound healing by sustained release of heparin-binding EGF-like growth factor. Acta Biomaterialia, 2019, 86, 135-147. | 8.3 | 113 |
| 8 | Coating of titanium implants with typeâ€‰collagen. Journal of Orthopaedic Research, 2004, 22, 1025-1034. | 2.3 | 112 |
| 9 | Influence of surface pretreatment of titanium- and cobalt-based biomaterials on covalent immobilization of fibrillar collagen. Biomaterials, 2006, 27, 4059-4068. | 11.4 | 108 |
| 10 | The osteogenic effect of electrosprayed nanoscale collagen/calcium phosphate coatings on titanium. Biomaterials, 2010, 31, 2461-2469. | 11.4 | 106 |
| 11 | Collageneous matrix coatings on titanium implants modified with decorin and chondroitin sulfate: Characterization and influence on osteoblastic cells. Journal of Biomedical Materials Research - Part A, 2006, 77A, 551-562. | 4.0 | 96 |
| 12 | Biological nano-functionalization of titanium-based biomaterial surfaces: a flexible toolbox. Journal of the Royal Society Interface, 2010, 7, S93-S105. | 3.4 | 95 |
| 13 | Preparation of superhydrophilic microrough titanium implant surfaces by alkali treatment. Journal of Materials Science: Materials in Medicine, 2010, 21, 2751-2763. | 3.6 | 94 |
| 14 | 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 |
| 15 | Mimicked Bioartificial Matrix Containing Chondroitin Sulphate on a Textile Scaffold of Poly(3-hydroxybutyrate) Alters the Differentiation of Adult Human Mesenchymal Stem Cells. Tissue Engineering, 2006, 12, 345-359. | 4.6 | 93 |
| 16 | Co-cultivation of keratinocyte-human mesenchymal stem cell (hMSC) on sericin loaded electrospun nanofibrous composite scaffold (cationic gelatin/hyaluronan/chondroitin sulfate) stimulates epithelial differentiation in hMSCs: InÂvitro study. Biomaterials, 2016, 88, 83-96. | 11.4 | 86 |
| 17 | Interactions of Collagen Types I and II with Chondroitin Sulfates Aâ“C and Their Effect on Osteoblast Adhesion. Biomacromolecules, 2007, 8, 1085-1092. | 5.4 | 85 |
| 18 | The effect of electrochemically simulated titanium cathodic corrosion products on ROS production and metabolic activity of osteoblasts and monocytes/macrophages. Biomaterials, 2007, 28, 3263-3272. | 11.4 | 83 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Artificial extracellular matrices composed of collagen I and sulfated hyaluronan with adsorbed transforming growth factor Î²1 promote collagen synthesis of human mesenchymal stromal cells. Acta Biomaterialia, 2012, 8, 659-666. | 8.3 | 81 |
| 20 | Biomechanical comparison of different surface modifications for dental implants. International Journal of Oral and Maxillofacial Implants, 2008, 23, 1037-46. | 1.4 | 80 |
| 21 | Response of human endothelial cells to oxidative stress on Ti6Al4V alloy. Biomaterials, 2007, 28, 806-813. | 11.4 | 79 |
| 22 | Interplay of Substrate Conductivity, Cellular Microenvironment, and Pulsatile Electrical Stimulation toward Osteogenesis of Human Mesenchymal Stem Cells in Vitro. ACS Applied Materials & Interfaces, 2015, 7, 23015-23028. | 8.0 | 78 |
| 23 | Sulfated Glycosaminoglycans Exploit the Conformational Plasticity of Bone Morphogenetic Protein-2 (BMP-2) and Alter the Interaction Profile with Its Receptor. Biomacromolecules, 2014, 15, 3083-3092. | 5.4 | 76 |
| 24 | Growth promoting substrates for human dermal fibroblasts provided by artificial extracellular matrices composed of collagen I and sulfated glycosaminoglycans. Biomaterials, 2011, 32, 8938-8946. | 11.4 | 75 |
| 25 | The effect of the degree of sulfation of glycosaminoglycans on osteoclast function and signaling pathways. Biomaterials, 2012, 33, 8418-8429. | 11.4 | 73 |
| 26 | Synergistic effect of defined artificial extracellular matrices and pulsed electric fields on osteogenic differentiation of human MSCs. Biomaterials, 2012, 33, 8975-8985. | 11.4 | 70 |
| 27 | Effect of biological implant surface coatings on bone formation, applying collagen, proteoglycans, glycosaminoglycans and growth factors. Journal of Materials Science: Materials in Medicine, 2008, 19, 1043-1049. | 3.6 | 67 |
| 28 | Modification of Ti6AL4V surfaces using collagen I, III, and fibronectin. II. Influence on osteoblast responses. Journal of Biomedical Materials Research - Part A, 2003, 67A, 431-438. | 4.0 | 65 |
| 29 | Biomimetic electrospun scaffolds from main extracellular matrix components for skin tissue engineering application â€“ The role of chondroitin sulfate and sulfated hyaluronan. Materials Science and Engineering C, 2017, 79, 15-22. | 7.3 | 60 |
| 30 | Sulfated Glycosaminoglycans Support Osteoblast Functions and Concurrently Suppress Osteoclasts. Journal of Cellular Biochemistry, 2014, 115, 1101-1111. | 2.6 | 59 |
| 31 | 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 |
| 32 | Sulfated hyaluronan improves bone regeneration of diabetic rats by binding sclerostin and enhancing osteoblast function. Biomaterials, 2016, 96, 11-23. | 11.4 | 55 |
| 33 | Glycosaminoglycan derivatives: promising candidates for the design of functional biomaterials. Journal of Materials Science: Materials in Medicine, 2015, 26, 232. | 3.6 | 53 |
| 34 | Mineralization behaviour of collagen type I immobilized on different substrates. Biomaterials, 2004, 25, 2371-2380. | 11.4 | 52 |
| 35 | The effect of electrochemical functionalization of Ti-alloy surfaces by aptamer-based capture molecules on cell adhesion. Biomaterials, 2007, 28, 468-474. | 11.4 | 52 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Embroidered and Surface Modified Polycaprolactone-Co-Lactide Scaffolds as Bone Substitute: In Vitro Characterization. Annals of Biomedical Engineering, 2009, 37, 2118-2128. | 2.5 | 50 |
| 38 | Biological functionalization of dental implants with collagen and glycosaminoglycansâ€"A comparative study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 331-341. | 3.4 | 49 |
| 39 | Artificial extracellular matrix composed of collagen I and highly sulfated hyaluronan interferes with TGFÎ²1 signaling and prevents TGFÎ²1-induced myofibroblast differentiation. Acta Biomaterialia, 2013, 9, 7775-7786. | 8.3 | 49 |
| 40 | Increased bone formation around coated implants. Journal of Clinical Periodontology, 2009, 36, 698-704. | 4.9 | 47 |
| 41 | Functionalization of biomaterial surfaces using artificial extracellular matrices. Biomatter, 2012, 2, 132-141. | 2.6 | 46 |
| 42 | Electrochemically assisted deposition of hydroxyapatite on Ti6Al4V substrates covered by CVD diamond films â€" Coating characterization and first cell biological results. Materials Science and Engineering C, 2016, 59, 624-635. | 7.3 | 45 |
| 43 | Morphology of bony tissues and implants uncovered by high-resolution tomographic imaging. International Journal of Materials Research, 2007, 98, 613-621. | 0.3 | 44 |
| 44 | Oligonucleotideâ^'RGD Peptide Conjugates for Surface Modification of Titanium Implants and Improvement of Osteoblast Adhesion. Bioconjugate Chemistry, 2009, 20, 710-718. | 3.6 | 44 |
| 45 | Coating with artificial matrices from collagen and sulfated hyaluronan influences the osseointegration of dental implants. Journal of Materials Science: Materials in Medicine, 2014, 25, 247-258. | 3.6 | 44 |
| 46 | Bioinspired Collagen/Glycosaminoglycan-Based Cellular Microenvironments for Tuning Osteoclastogenesis. ACS Applied Materials & Interfaces, 2015, 7, 23787-23797. | 8.0 | 42 |
| 47 | New aspects in the histological examination of polyethylene wear particles in failed total joint replacements. Acta Histochemica, 2002, 104, 263-269. | 1.8 | 41 |
| 48 | Modification of Ti6Al4V surfaces using collagen I, III, and fibronectin. I. Biochemical and morphological characteristics of the adsorbed matrix. Journal of Biomedical Materials Research Part B, 2003, 67A, 421-430. | 3.1 | 40 |
| 49 | Evaluation of the osteogenic potential and vascularization of 3D poly(3)hydroxybutyrate scaffolds subcutaneously implanted in nude rats. Journal of Biomedical Materials Research - Part A, 2010, 92A, 185-195. | 4.0 | 40 |
| 50 | The role of oxidative stress in pro-inflammatory activation of human endothelial cells on Ti6Al4V alloy. Biomaterials, 2013, 34, 8075-8085. | 11.4 | 40 |
| 51 | Structural and functional insights into sclerostin-glycosaminoglycan interactions in bone. Biomaterials, 2015, 67, 335-345. | 11.4 | 39 |
| 52 | Biomimetic calcium phosphate composite coating of dental implants. International Journal of Oral and Maxillofacial Implants, 2006, 21, 738-46. | 1.4 | 39 |
| 53 | Electron Transfer Kinetics at Oxide Films on Metallic Biomaterials. Journal of the Electrochemical Society, 2007, 154, C508. | 2.9 | 37 |
| 54 | Nanofibrous artificial skin substitute composed of mPEGâ€"PCL grafted gelatin/hyaluronan/chondroitin sulfate/sericin for 2nd degree burn care: in vitro and in vivo study. RSC Advances, 2018, 8, 16420-16432. | 3.6 | 36 |

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| 55 | Influence of modified extracellular matrices on TI6AL4V implants on binding and release of VEGF. Journal of Biomedical Materials Research - Part A, 2006, 79A, 882-894. | 4.0 | 33 |
| 56 | 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 |
| 57 | Effect of oligonucleotide mediated immobilization of bone morphogenic proteins on titanium surfaces. Biomaterials, 2012, 33, 1315-1322. | 11.4 | 33 |
| 58 | 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 |
| 59 | The promotion of osteoclastogenesis by sulfated hyaluronan through interference with osteoprotegerin and receptor activator of NF-Î²B ligand/osteoprotegerin complex formation. Biomaterials, 2013, 34, 7653-7661. | 11.4 | 32 |
| 60 | Increased pore size of scaffolds improves coating efficiency with sulfated hyaluronan and mineralization capacity of osteoblasts. Biomaterials Research, 2019, 23, 26. | 6.9 | 32 |
| 61 | Influence of collagenâ€fibrilâ€based coatings containing decorin and biglycan on osteoblast behavior. Journal of Biomedical Materials Research - Part A, 2008, 84A, 805-816. | 4.0 | 31 |
| 62 | 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 |
| 63 | Structural and functional insights into the interaction of sulfated glycosaminoglycans with tissue inhibitor of metalloproteinase-3 â€" A possible regulatory role on extracellular matrix homeostasis. Acta Biomaterialia, 2016, 45, 143-154. | 8.3 | 31 |
| 64 | Sulfated Hyaluronan Derivatives Modulate TGF-Î²1:Receptor Complex Formation: Possible Consequences for TGF-Î²1 Signaling. Scientific Reports, 2017, 7, 1210. | 3.3 | 30 |
| 65 | Immobilization of oligonucleotides on titanium based materials by partial incorporation in anodic oxide layers. Biomaterials, 2009, 30, 2774-2781. | 11.4 | 29 |
| 66 | Increased bone remodelling around titanium implants coated with chondroitin sulfate in ovariectomized rats. Acta Biomaterialia, 2014, 10, 2855-2865. | 8.3 | 29 |
| 67 | Hydrostatic Pressure Stimulation of Human Mesenchymal Stem Cells Seeded on Collagen-Based Artificial Extracellular Matrices. Journal of Biomechanical Engineering, 2010, 132, 021001. | 1.3 | 28 |
| 68 | Dual Action of Sulfated Hyaluronan on Angiogenic Processes in Relation to Vascular Endothelial Growth Factor-A. Scientific Reports, 2019, 9, 18143. | 3.3 | 28 |
| 69 | Characterization of collagen II fibrils containing biglycan and their effect as a coating on osteoblast adhesion and proliferation. Journal of Materials Science: Materials in Medicine, 2008, 19, 1653-1660. | 3.6 | 27 |
| 70 | Embroidered and surface coated polycaprolactone-co-lactide scaffolds. Biomatter, 2012, 2, 158-165. | 2.6 | 27 |
| 71 | Investigation of the Peptide Adsorption on ZrO<sub>2</sub>, TiZr, and TiO<sub>2</sub> Surfaces as a Method for Surface Modification. ACS Applied Materials & Interfaces, 2014, 6, 7408-7416. | 8.0 | 27 |
| 72 | Longâ€bone criticalâ€size defects treated with tissueâ€engineered polycaprolactoneâ€coâ€lactide scaffolds: A pilot study on rats. Journal of Biomedical Materials Research - Part A, 2010, 95A, 964-972. | 4.0 | 26 |

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| 73 | Hyaluronan/Collagen Hydrogels with Sulfated Hyaluronan for Improved Repair of Vascularized Tissue Tune the Binding of Proteins and Promote Endothelial Cell Growth. Macromolecular Bioscience, 2017, 17, 1700154. | 4.1 | 26 |
| 74 | Mono(2â€ethylhexyl) phthalate (MEHP) and mono(2â€ethylâ€5â€oxohexyl) phthalate (MEOHP) but not di(2â€ethylhexyl) phthalate (DEHP) bind productively to the peroxisome proliferatorâ€activated receptor Î³. Rapid Communications in Mass Spectrometry, 2019, 33, 75-85. | 1.5 | 26 |
| 75 | 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 |
| 76 | Physicochemical and cell biological characterization of PMMA bone cements modified with additives to increase bioactivity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 599-609. | 3.4 | 24 |
| 77 | Functionalization of titanium implants using a modular system for binding and release of <scp>VEGF</scp> enhances boneâ€implant contact in a rodent model. Journal of Clinical Periodontology, 2015, 42, 302-310. | 4.9 | 24 |
| 78 | Investigation of the mechanical and chemical characteristics of nanotubular and nano-pitted anodic films on grade 2 titanium dental implant materials. Materials Science and Engineering C, 2017, 78, 69-78. | 7.3 | 24 |
| 79 | Sulfated Hyaluronan Alters Endothelial Cell Activationin Vitroby Controlling the Biological Activity of the Angiogenic Factors Vascular Endothelial Growth Factor-A and Tissue Inhibitor of Metalloproteinase-3. ACS Applied Materials & Interfaces, 2017, 9, 9539-9550. | 8.0 | 23 |
| 80 | Collagenâ€lactoferrin fibrillar coatings enhance osteoblast proliferation and differentiation. Journal of Biomedical Materials Research - Part A, 2015, 103, 525-533. | 4.0 | 22 |
| 81 | Suitability of differently designed matrixâ€based implant surface coatings: An animal study on bone formation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 516-524. | 3.4 | 21 |
| 82 | Improved Anchorage of Ti6Al4V Orthopaedic Bone Implants through Oligonucleotide Mediated Immobilization of BMP-2 in Osteoporotic Rats. PLoS ONE, 2014, 9, e86151. | 2.5 | 20 |
| 83 | Sulfated Hyaluronan Alters the Interaction Profile of TIMP-3 with the Endocytic Receptor LRP-1 Clusters II and IV and Increases the Extracellular TIMP-3 Level of Human Bone Marrow Stromal Cells. Biomacromolecules, 2016, 17, 3252-3261. | 5.4 | 20 |
| 84 | Osseointegration of Titanium Prostheses on the Stapes Footplate. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 161-171. | 1.8 | 19 |
| 85 | Sulfated Hyaluronan Influences the Formation of Artificial Extracellular Matrices and the Adhesion of Osteogenic Cells. Macromolecular Bioscience, 2014, 14, 1783-1794. | 4.1 | 19 |
| 86 | Sulfation degree not origin of chondroitin sulfate derivatives modulates keratinocyte response. Carbohydrate Polymers, 2018, 191, 53-64. | 10.2 | 19 |
| 87 | Osteogenic nanostructured titanium surfaces with antibacterial properties under conditions that mimic the dynamic situation in the oral cavity. Biomaterials Science, 2018, 6, 1390-1402. | 5.4 | 19 |
| 88 | Evaluation of cell-surface interaction using a 3D spheroid cell culture model on artificial extracellular matrices. Materials Science and Engineering C, 2017, 73, 310-318. | 7.3 | 18 |
| 89 | Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2017, 23, 286-297. | 2.1 | 17 |
| 90 | Progression of Osteogenic Cell Cultures Grown on Microtopographic Titanium Coated With Calcium Phosphate and Functionalized With a Type I Collagenâ€Derived Peptide. Journal of Periodontology, 2013, 84, 1199-1210. | 3.4 | 16 |

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| 91 | Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. Beilstein Journal of Organic Chemistry, 2014, 10, 2765-2773. | 2.2 | 16 |
| 92 | Influence of pulse ratio on codeposition of copper species with calcium phosphate coatings on titanium by means of electrochemically assisted deposition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 160-172. | 3.4 | 15 |
| 93 | Covalent linkage of sulfated hyaluronan to the collagen scaffold MucograftÂ® enhances scaffold stability and reduces proinflammatory macrophage activation in vivo. Bioactive Materials, 2022, 8, 420-434. | 15.6 | 15 |
| 94 | 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 |
| 95 | Hyaluronan/collagen hydrogel matrices containing high-sulfated hyaluronan microgels for regulating transforming growth factor-Î²1. Journal of Materials Science: Materials in Medicine, 2019, 30, 65. | 3.6 | 13 |
| 96 | Sodium alendronate loaded poly(<scp>l</scp>-lactide- co-glycolide) microparticles immobilized on ceramic scaffolds for local treatment of bone defects. International Journal of Energy Production and Management, 2021, 8, 293-302. | 3.7 | 13 |
| 97 | Peptide linkers for the immobilization of bioactive molecules on biphasic calcium phosphate via a modular immobilization system. Acta Biomaterialia, 2013, 9, 4899-4905. | 8.3 | 12 |
| 98 | Bone Formation in a Local Defect around Dental Implants Coated with Extracellular Matrix Components. Clinical Implant Dentistry and Related Research, 2015, 17, 742-757. | 3.7 | 12 |
| 99 | Success and side effects of different treatment options in the low current attack of bacterial biofilms on titanium implants. Bioelectrochemistry, 2020, 133, 107485. | 4.6 | 12 |
| 100 | Glycosaminoglycans and their sulfate derivatives differentially regulate the viability and gene expression of osteocyte-like cell lines. Journal of Bioactive and Compatible Polymers, 2014, 29, 474-485. | 2.1 | 11 |
| 101 | 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 |
| 102 | Surface Functionalization of Poly(l-lactide-co-glycolide) Membranes with RGD-Grafted Poly(2-oxazoline) for Periodontal Tissue Engineering. Journal of Functional Biomaterials, 2022, 13, 4. | 4.4 | 11 |
| 103 | The effects of metal implants on inflammatory and healing processes. International Journal of Materials Research, 2007, 98, 622-629. | 0.3 | 10 |
| 104 | Utilizing DNA for functionalization of biomaterial surfaces. FEBS Letters, 2018, 592, 2181-2196. | 2.8 | 10 |
| 105 | Chemically modified glycosaminoglycan derivatives as building blocks for biomaterial coatings and hydrogels. Biological Chemistry, 2021, 402, 1385-1395. | 2.5 | 10 |
| 106 | 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 |
| 107 | Hyaluronan/Collagen Hydrogels with Sulfated Glycosaminoglycans Maintain VEGF<sub>165</sub> Activity and Fine-Tune Endothelial Cell Response. ACS Applied Bio Materials, 2021, 4, 494-506. | 4.6 | 9 |
| 108 | Properties of composite oxide layers on the Ti13Nb13Zr alloy. Surface Engineering, 2017, 33, 841-848. | 2.2 | 8 |

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| 109 | Biomaterials in repairing rat femoral defects: In vivo insights from small animal positron emission tomography/computed tomography (PET/CT) studies. Clinical Hemorheology and Microcirculation, 2019, 73, 177-194. | 1.7 | 8 |
| 110 | The influence of different artificial extracellular matrix implant coatings on the regeneration of a critical size femur defect in rats. Materials Science and Engineering C, 2020, 116, 111157. | 7.3 | 8 |
| 111 | Glucuronic acid and phosphoserine act as mineralization mediators of collagen I based biomimetic substrates. Journal of Materials Science: Materials in Medicine, 2010, 21, 407-418. | 3.6 | 7 |
| 112 | Application of Lateral and Distance Spacers in an Oligonucleotide Based Immobilization System for Bioactive Molecules onto Titanium Implants. ACS Applied Materials & Interfaces, 2016, 8, 3755-3764. | 8.0 | 7 |
| 113 | Bone Morphogenetic Protein-2 Hybridized with Nano-Anchored Oligonucleotides on Titanium Implants Enhances Osteogenic Differentiation In Vivo. International Journal of Oral and Maxillofacial Implants, 2017, 32, e175-e182. | 1.4 | 7 |
| 114 | Sulfated hyaluronanâ€containing artificial extracellular matrices promote proliferation of keratinocytes and melanotic phenotype of melanocytes from the outer root sheath of hair follicles. Journal of Biomedical Materials Research - Part A, 2019, 107, 1640-1653. | 4.0 | 7 |
| 115 | A modular peptide-based immobilization system for ZrO 2 , TiZr and TiO 2 surfaces. Acta Biomaterialia, 2015, 12, 290-297. | 8.3 | 6 |
| 116 | Sulfated Glycosaminoglycan Building Blocks for the Design of Artificial Extracellular Matrices. ACS Symposium Series, 2012, , 315-328. | 0.5 | 5 |
| 117 | Reciprocal influence of hMSCs/HaCaT cultivated on electrospun scaffolds. Journal of Materials Science: Materials in Medicine, 2017, 28, 128. | 3.6 | 5 |
| 118 | 3D analysis of bone formation around titanium implants using micro computed tomography (Î¼CT). , 2006, , . | | 4 |
| 119 | Immobilization of Denosumab on Titanium Affects Osteoclastogenesis of Human Peripheral Blood Monocytes. International Journal of Molecular Sciences, 2019, 20, 1002. | 4.1 | 4 |
| 120 | Strengthening of Titanium by Equal Channel Angular Pressing â€•Impact on Oxide Layer Properties of Pure Titanium and Ti6Al4V. Advanced Materials Interfaces, 2020, 7, 2000552. | 3.7 | 4 |
| 121 | Bio surface-engineering of titanium materials. BIOmaterialien: Offizielles Organ Der Deutschen Gesellschaft Fuer Biomaterialien, 2007, 8, . | 0.1 | 2 |
| 122 | Implant surface modifications and new development in surface coatings. , 2020, , 89-124. | | 2 |
| 123 | Surface functionalization of biomaterials with tissue-inductive artificial extracellular matrices. BioNanoMaterials, 2013, 14, . | 1.4 | 1 |
| 124 | Biocomposite and Bioceramic Coatings and Materials. , 2015, , 445-470. | | 1 |
| 125 | Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1672-1684. | 2.7 | 1 |
| 126 | The Role of Oxidative Stress in the Response of Endothelial Cells to Metals. Springer Series in Biomaterials Science and Engineering, 2013, , 65-88. | 1.0 | 1 |

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| 127 | Macromol. Biosci. 11/2017. Macromolecular Bioscience, 2017, 17, . | 4.1 | 0 |