

Michael Gelinsky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

250
papers

8,341
citations

49
h-index

79
g-index

275
ext. papers

9,859
ext. citations

5.6
avg, IF

6.39
L-index

#	Paper	IF	Citations
250	Functionally graded materials for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 362, 40-60	5.3	370
249	Three-dimensional printing of hierarchical and tough mesoporous bioactive glass scaffolds with a controllable pore architecture, excellent mechanical strength and mineralization ability. <i>Acta Biomaterialia</i> , 2011 , 7, 2644-50	10.8	288
248	A definition of bioinks and their distinction from biomaterial inks. <i>Biofabrication</i> , 2018 , 11, 013001	10.5	273
247	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , 2020 , 140, 100543	30.9	241
246	Development of a clay based bioink for 3D cell printing for skeletal application. <i>Biofabrication</i> , 2017 , 9, 034103	10.5	163
245	3D-printing of highly uniform CaSiO ₃ ceramic scaffolds: preparation, characterization and in vivo osteogenesis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12288		157
244	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011 , 7, 3563-72	10.8	149
243	A novel strontium(II)-modified calcium phosphate bone cement stimulates human-bone-marrow-derived mesenchymal stem cell proliferation and osteogenic differentiation in vitro. <i>Acta Biomaterialia</i> , 2013 , 9, 9547-57	10.8	147
242	Low temperature additive manufacturing of three dimensional scaffolds for bone-tissue engineering applications: Processing related challenges and property assessment. <i>Materials Science and Engineering Reports</i> , 2016 , 103, 1-39	30.9	142
241	Bone formation induced by strontium modified calcium phosphate cement in critical-size metaphyseal fracture defects in ovariectomized rats. <i>Biomaterials</i> , 2013 , 34, 8589-98	15.6	141
240	Three-dimensional plotting of a cell-laden alginate/methylcellulose blend: towards biofabrication of tissue engineering constructs with clinically relevant dimensions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1574-1587	4.4	131
239	Porous three-dimensional scaffolds made of mineralised collagen: Preparation and properties of a biomimetic nanocomposite material for tissue engineering of bone. <i>Chemical Engineering Journal</i> , 2008 , 137, 84-96	14.7	124
238	Hierarchical mesoporous bioactive glass/alginate composite scaffolds fabricated by three-dimensional plotting for bone tissue engineering. <i>Biofabrication</i> , 2013 , 5, 015005	10.5	120
237	Jellyfish collagen scaffolds for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 883-92	10.8	119
236	Alginate/nanohydroxyapatite scaffolds with designed core/shell structures fabricated by 3D plotting and in situ mineralization for bone tissue engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6541-9	9.5	114
235	3D plotting of growth factor loaded calcium phosphate cement scaffolds. <i>Acta Biomaterialia</i> , 2015 , 27, 264-274	10.8	112
234	Biomimetically mineralized salmon collagen scaffolds for application in bone tissue engineering. <i>Biomacromolecules</i> , 2012 , 13, 1059-66	6.9	112

233	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011 , 7, 1797-806	10.8	105
232	Direct plotting of three-dimensional hollow fiber scaffolds based on concentrated alginate pastes for tissue engineering. <i>Advanced Healthcare Materials</i> , 2013 , 2, 777-83	10.1	104
231	Toxicity of tungsten carbide and cobalt-doped tungsten carbide nanoparticles in mammalian cells in vitro. <i>Environmental Health Perspectives</i> , 2009 , 117, 530-6	8.4	100
230	Fabrication of porous scaffolds by three-dimensional plotting of a pasty calcium phosphate bone cement under mild conditions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 682-93	4.4	88
229	A novel and easy-to-prepare strontium(II) modified calcium phosphate bone cement with enhanced mechanical properties. <i>Acta Biomaterialia</i> , 2013 , 9, 7536-44	10.8	79
228	Strontium modified calcium phosphate cements - approaches towards targeted stimulation of bone turnover. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4626-4640	7.3	77
227	Improved Sterilization of Sensitive Biomaterials with Supercritical Carbon Dioxide at Low Temperature. <i>PLoS ONE</i> , 2015 , 10, e0129205	3.7	76
226	Green bioprinting: Fabrication of photosynthetic algae-laden hydrogel scaffolds for biotechnological and medical applications. <i>Engineering in Life Sciences</i> , 2015 , 15, 177-183	3.4	76
225	Agglomeration of tungsten carbide nanoparticles in exposure medium does not prevent uptake and toxicity toward a rainbow trout gill cell line. <i>Aquatic Toxicology</i> , 2009 , 93, 91-9	5.1	76
224	Mineralised collagen--an artificial, extracellular bone matrix--improves osteogenic differentiation of bone marrow stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 269-75	4.5	75
223	Novel soft alginate hydrogel strongly supports neurite growth and protects neurons against oxidative stress. <i>Tissue Engineering - Part A</i> , 2012 , 18, 55-66	3.9	74
222	Swelling and mechanical properties of alginate hydrogels with respect to promotion of neural growth. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 401-11	2.9	72
221	Biomimetic porous scaffolds with high elasticity made from mineralized collagen--an animal study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 464-72	3.5	72
220	Well-ordered biphasic calcium phosphate-alginate scaffolds fabricated by multi-channel 3D plotting under mild conditions. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4088-4098	7.3	71
219	Calcium phosphate bone cements, functionalized with VEGF: release kinetics and biological activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 474-83	5.4	71
218	Fabrication and characterization of regenerated silk scaffolds reinforced with natural silk fibers for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 2392-404	5.4	69
217	In vitro ossification and remodeling of mineralized collagen I scaffolds. <i>Tissue Engineering</i> , 2006 , 12, 949-58		66
216	Proliferation and differentiation of osteoblasts on Biocement D modified with collagen type I and citric acid. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 130-43		63

215	Design and Fabrication of Complex Scaffolds for Bone Defect Healing: Combined 3D Plotting of a Calcium Phosphate Cement and a Growth Factor-Loaded Hydrogel. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 224-236	4.7	62
214	Proliferation and osteogenic differentiation of human bone marrow stromal cells on alginate-gelatin-hydroxyapatite scaffolds with anisotropic pore structure. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009 , 3, 54-62	4.4	62
213	A versatile method for combining different biopolymers in a core/shell fashion by 3D plotting to achieve mechanically robust constructs. <i>Biofabrication</i> , 2016 , 8, 045001	10.5	62
212	Concentrated gelatin/alginate composites for fabrication of predesigned scaffolds with a favorable cell response by 3D plotting. <i>RSC Advances</i> , 2015 , 5, 43480-43488	3.7	61
211	Cultivation of human bone marrow stromal cells on three-dimensional scaffolds of mineralized collagen: influence of seeding density on colonization, proliferation and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008 , 2, 400-7	4.4	61
210	Novel chitin scaffolds derived from marine sponge <i>Ianthella basta</i> for tissue engineering approaches based on human mesenchymal stromal cells: Biocompatibility and cryopreservation. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1955-1965	7.9	60
209	Bioprinting of mineralized constructs utilizing multichannel plotting of a self-setting calcium phosphate cement and a cell-laden bioink. <i>Biofabrication</i> , 2018 , 10, 045002	10.5	58
208	Strontium-modified premixed calcium phosphate cements for the therapy of osteoporotic bone defects. <i>Acta Biomaterialia</i> , 2018 , 65, 475-485	10.8	55
207	Coordination modes of aminoacids to zinc. <i>Inorganica Chimica Acta</i> , 2002 , 334, 25-33	2.7	53
206	Engineering considerations on extrusion-based bioprinting: interactions of material behavior, mechanical forces and cells in the printing needle. <i>Biofabrication</i> , 2020 , 12, 025022	10.5	52
205	Strontium substitution in apatitic CaP cements effectively attenuates osteoclastic resorption but does not inhibit osteoclastogenesis. <i>Acta Biomaterialia</i> , 2016 , 37, 184-94	10.8	52
204	Internalisation of engineered nanoparticles into mammalian cells in vitro: influence of cell type and particle properties. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 293-310	2.3	51
203	3D chitinous scaffolds derived from cultivated marine demosponge <i>Aplysina aerophoba</i> for tissue engineering approaches based on human mesenchymal stromal cells. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1966-1974	7.9	49
202	3D bioprinting scaffold using alginate/polyvinyl alcohol bioinks. <i>Materials Letters</i> , 2017 , 189, 295-298	3.3	49
201	Tripodal pseudopeptides with three histidine or cysteine donors: synthesis and zinc complexation. <i>Inorganic Chemistry</i> , 2002 , 41, 2560-4	5.1	48
200	Calcium phosphate bone cement/mesoporous bioactive glass composites for controlled growth factor delivery. <i>Biomaterials Science</i> , 2017 , 5, 578-588	7.4	47
199	Green bioprinting: extrusion-based fabrication of plant cell-laden biopolymer hydrogel scaffolds. <i>Biofabrication</i> , 2017 , 9, 045011	10.5	45
198	Pellet culture elicits superior chondrogenic redifferentiation than alginate-based systems. <i>Biotechnology Progress</i> , 2009 , 25, 1146-52	2.8	45

197	Crosstalk of osteoblast and osteoclast precursors on mineralized collagen--towards an in vitro model for bone remodeling. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 848-56	5.4	44
196	Scaffolds for Hard Tissue Engineering by Ionotropic Gelation of Alginate Influence of Selected Preparation Parameters. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1703-1708	3.8	44
195	Histological and molecular-biological analyses of poly(3-hydroxybutyrate) (PHB) patches for enhancement of bone regeneration. <i>Annals of Anatomy</i> , 2015 , 199, 36-42	2.9	43
194	Heparin modification of calcium phosphate bone cements for VEGF functionalization. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 749-59	5.4	43
193	Biphasic, but monolithic scaffolds for the therapy of osteochondral defects. <i>International Journal of Materials Research</i> , 2007 , 98, 749-755	0.5	43
192	3D Bioprinting of osteochondral tissue substitutes - in vitro-chondrogenesis in multi-layered mineralized constructs. <i>Scientific Reports</i> , 2020 , 10, 8277	4.9	43
191	Highly Concentrated Alginate-Gellan Gum Composites for 3D Plotting of Complex Tissue Engineering Scaffolds. <i>Polymers</i> , 2016 , 8,	4.5	42
190	3D Bioprinting of Functional Islets of Langerhans in an Alginate/Methylcellulose Hydrogel Blend. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801631	10.1	41
189	A Novel Plasma-Based Bioink Stimulates Cell Proliferation and Differentiation in Bioprinted, Mineralized Constructs. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12557-12572	9.5	41
188	Heparin modification of a biomimetic bone matrix for controlled release of VEGF. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3500-11	5.4	41
187	Phosphoserine--a convenient compound for modification of calcium phosphate bone cement collagen composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 451-5	4.5	41
186	Jellyfish collagen and alginate: Combined marine materials for superior chondrogenesis of hMSC. <i>Materials Science and Engineering C</i> , 2016 , 64, 190-198	8.3	41
185	Additive manufacturing of collagen scaffolds by three-dimensional plotting of highly viscous dispersions. <i>Biofabrication</i> , 2016 , 8, 015015	10.5	38
184	The effect of Cu(II)-loaded brushite scaffolds on growth and activity of osteoblastic cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2392-400	5.4	38
183	Tailoring Materials for Modulation of Macrophage Fate. <i>Advanced Materials</i> , 2021 , 33, e2004172	24	37
182	Methylcellulose - a versatile printing material that enables biofabrication of tissue equivalents with high shape fidelity. <i>Biomaterials Science</i> , 2020 , 8, 2102-2110	7.4	34
181	Additive Biotech-Chances, challenges, and recent applications of additive manufacturing technologies in biotechnology. <i>New Biotechnology</i> , 2017 , 39, 222-231	6.4	34
180	In situ preparation and protein delivery of silicate-alginate composite microspheres with core-shell structure. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1804-14	4.1	34

179	Functionalized Bioink with Optical Sensor Nanoparticles for O2 Imaging in 3D-Bioprinted Constructs. <i>Advanced Functional Materials</i> , 2018 , 28, 1804411	15.6	34
178	In vitro osteogenic potential of human bone marrow stromal cells cultivated in porous scaffolds from mineralized collagen. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 852-62	5.4	33
177	Green bioprinting: Viability and growth analysis of microalgae immobilized in 3D-plotted hydrogels versus suspension cultures. <i>Engineering in Life Sciences</i> , 2015 , 15, 678-688	3.4	32
176	The effect of SDF-1 β on low dose BMP-2 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, 2126-34	5.4	32
175	Nanoclay-based 3D printed scaffolds promote vascular ingrowth ex vivo and generate bone mineral tissue in vitro and in vivo. <i>Biofabrication</i> , 2020 , 12, 035010	10.5	31
174	Alginate/calcium phosphate scaffolds with oriented, tube-like pores. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 761-767	0.9	31
173	Investigating the effect of sterilisation methods on the physical properties and cytocompatibility of methyl cellulose used in combination with alginate for 3D-bioplotting of chondrocytes. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 10	4.5	31
172	3D Plotted Biphasic Bone Scaffolds for Growth Factor Delivery: Biological Characterization In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801512	10.1	30
171	3D Printing of Hot Dog-Like Biomaterials with Hierarchical Architecture and Distinct Bioactivity. <i>Advanced Science</i> , 2019 , 6, 1901146	13.6	30
170	Stromal cell-derived factor-1 α -directed chemoattraction of transiently CXCR4-overexpressing bone marrow stromal cells into functionalized three-dimensional biomimetic scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 687-96	2.9	30
169	Bone formation in trabecular bone cell seeded scaffolds used for reconstruction of the rat mandible. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2009 , 38, 166-72	2.9	30
168	Multiphase Biomineralization: Enigmatic Invasive Siliceous Diatoms Produce Crystalline Calcite. <i>Advanced Functional Materials</i> , 2016 , 26, 2503-2510	15.6	30
167	Three-dimensional bioprinting of volumetric tissues and organs. <i>MRS Bulletin</i> , 2017 , 42, 585-592	3.2	29
166	Enhanced biochemical and biomechanical properties of scaffolds generated by flock technology for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3697-707	3.9	29
165	Biphasic Scaffolds from Marine Collagens for Regeneration of Osteochondral Defects. <i>Marine Drugs</i> , 2018 , 16,	6	28
164	Relevance of osteoclast-specific enzyme activities in cell-based in vitro resorption assays. <i>European Cells and Materials</i> , 2017 , 33, 28-42	4.3	27
163	A Methylcellulose Hydrogel as Support for 3D Plotting of Complex Shaped Calcium Phosphate Scaffolds. <i>Gels</i> , 2018 , 4,	4.2	27
162	Cu, Co and Cr doping of a calcium phosphate cement influences materials properties and response of human mesenchymal stromal cells. <i>Materials Science and Engineering C</i> , 2017 , 73, 99-110	8.3	26

161	Naturally Drug-Loaded Chitin: Isolation and Applications. <i>Marine Drugs</i> , 2019 , 17,	6	26
160	ToF-SIMS analysis of osteoblast-like cells and their mineralized extracellular matrix on strontium enriched bone cements. <i>Biointerphases</i> , 2013 , 8, 17	1.8	26
159	Nanocrystalline spherical hydroxyapatite granules for bone repair: in vitro evaluation with osteoblast-like cells and osteoclasts. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1755-66	4.5	26
158	Solution behaviour and zinc complexation of tripeptides with cysteine and/or histidine at both termini. <i>Inorganica Chimica Acta</i> , 1998 , 272, 115-124	2.7	26
157	Use of a mineralized collagen membrane to enhance repair of calvarial defects in rats. <i>Clinical Oral Implants Research</i> , 2004 , 15, 112-8	4.8	26
156	Zinc complexation of cyclic dipeptides containing cysteine and/or histidine. <i>Inorganica Chimica Acta</i> , 2001 , 323, 16-22	2.7	26
155	Black Bioceramics: Combining Regeneration with Therapy. <i>Advanced Materials</i> , 2020 , 32, e2005140	24	26
154	Novel alginate biphasic scaffold for osteochondral regeneration: an in vivo evaluation in rabbit and sheep models. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 74	4.5	26
153	Three-dimensional plotted hydroxyapatite scaffolds with predefined architecture: comparison of stabilization by alginate cross-linking versus sintering. <i>Journal of Biomaterials Applications</i> , 2016 , 30, 1168-81	2.9	25
152	Controlled Formation of Tri- and Octanuclear Benzylthiolate Complexes of Zinc. <i>Inorganic Chemistry</i> , 1998 , 37, 2833-2836	5.1	25
151	Strontium release from Sr-loaded bone cements and dispersion in healthy and osteoporotic rat bone. <i>Journal of Controlled Release</i> , 2017 , 262, 159-169	11.7	24
150	A bioactive triphasic ceramic-coated hydroxyapatite promotes proliferation and osteogenic differentiation of human bone marrow stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 533-42	5.4	24
149	In vitro investigations of bone remodeling on a transparent hydroxyapatite ceramic. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 015007	3.5	24
148	Ectopic bone formation in nude rats using human osteoblasts seeded poly(3)hydroxybutyrate embroidery and hydroxyapatite-collagen tapes constructs. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2006 , 34 Suppl 2, 101-9	3.6	24
147	Strontium-modification of porous scaffolds from mineralized collagen for potential use in bone defect therapy. <i>Materials Science and Engineering C</i> , 2018 , 84, 159-167	8.3	24
146	In Vitro Co-culture Model of Primary Human Osteoblasts and Osteocytes in Collagen Gels. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	23
145	Formation of osteoclasts on calcium phosphate bone cements and polystyrene depends on monocyte isolation conditions. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 160-70	2.9	23
144	Novel ceramic bone replacement material Osbone [®] in a comparative in vitro study with osteoblasts. <i>Clinical Oral Implants Research</i> , 2011 , 22, 651-7	4.8	23

143	A Hydrogel Model Incorporating 3D-Plotted Hydroxyapatite for Osteochondral Tissue Engineering. <i>Materials</i> , 2016 , 9,	3.5	23
142	Cytotoxicity of drugs injected into joints in orthopaedics. <i>Bone and Joint Research</i> , 2019 , 8, 41-48	4.2	22
141	Cages augmented with mineralized collagen and platelet-rich plasma as an osteoconductive/inductive combination for interbody fusion. <i>Spine</i> , 2010 , 35, 740-6	3.3	22
140	Histologic study of incorporation and resorption of a bone cement-collagen composite: an in vivo study in the minipig. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2008 , 105, e9-14		22
139	Optimization of culture conditions for osteogenically-induced mesenchymal stem cells in β -tricalcium phosphate ceramics with large interconnected channels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 444-53	4.4	21
138	Novel Textile Scaffolds Generated by Flock Technology for Tissue Engineering of Bone and Cartilage. <i>Materials</i> , 2012 , 5, 540-557	3.5	21
137	Comparative evaluation of different calcium phosphate-based bone graft granules - an in vitro study with osteoblast-like cells. <i>Clinical Oral Implants Research</i> , 2013 , 24, 441-9	4.8	20
136	Zinc complexation of glutathione and glutathione-derived peptides. <i>Inorganica Chimica Acta</i> , 2003 , 344, 230-238	2.7	20
135	3D bioprinting of hepatocytes: core-shell structured co-cultures with fibroblasts for enhanced functionality. <i>Scientific Reports</i> , 2021 , 11, 5130	4.9	20
134	Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelonection model. <i>Acta Neurochirurgica</i> , 2018 , 160, 449-457	3	20
133	Cell-laden biphasic scaffolds with anisotropic structure for the regeneration of osteochondral tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 404-17	4.4	19
132	Electrostatic flocking of chitosan fibres leads to highly porous, elastic and fully biodegradable anisotropic scaffolds. <i>Acta Biomaterialia</i> , 2016 , 44, 267-76	10.8	19
131	Heparin modification of a biomimetic bone matrix modulates osteogenic and angiogenic cell response in vitro. <i>European Cells and Materials</i> , 2017 , 33, 105-120	4.3	19
130	Effect of seeding technique and scaffold material on bone formation in tissue-engineered constructs. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 429-37	5.4	19
129	O-phospho-L-serine modified calcium phosphate cements [material properties, in vitro and in vivo investigations. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 491-503	0.9	19
128	Poröse Scaffolds aus mineralisiertem Kollagen [ein biomimetisches Knochenersatzmaterial. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2004 , 35, 229-233	0.9	19
127	Osteoclastic differentiation and resorption is modulated by bioactive metal ions Co^{2+} , Cu^{2+} and Cr^{3+} incorporated into calcium phosphate bone cements. <i>PLoS ONE</i> , 2017 , 12, e0182109	3.7	19
126	Endosteal and Perivascular Subniches in a 3D Bone Marrow Model for Multiple Myeloma. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 300-312	2.9	18

125	Strontium enhances BMP-2 mediated bone regeneration in a femoral murine bone defect model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 174-182	3.5	18
124	3D Printing of Bone Grafts for Cleft Alveolar Osteoplasty - Evaluation in a Preclinical Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 217	5.8	18
123	S and B microalloying of biodegradable Fe-30Mn-1C - Effects on microstructure, tensile properties, in vitro degradation and cytotoxicity. <i>Materials and Design</i> , 2018 , 142, 22-35	8.1	17
122	Response of human bone marrow stromal cells to a novel ultra-fine-grained and dispersion-strengthened titanium-based material. <i>Acta Biomaterialia</i> , 2010 , 6, 1006-13	10.8	17
121	Solution behaviour and zinc complexation of di- and tripeptides with two cysteine units. <i>Inorganica Chimica Acta</i> , 2002 , 339, 1-8	2.7	17
120	Primary Human Osteocyte Networks in Pure and Modified Collagen Gels. <i>Tissue Engineering - Part A</i> , 2019 , 25, 1347-1355	3.9	17
119	Materials and scaffolds in medical 3D printing and bioprinting in the context of bone regeneration. <i>International Journal of Computerized Dentistry</i> , 2016 , 19, 301-321	4.5	17
118	Modulation of chondrogenic differentiation of human mesenchymal stem cells in jellyfish collagen scaffolds by cell density and culture medium. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1710-1722	4.4	16
117	Sox9 expression of alginate-encapsulated chondrocytes is stimulated by low cell density. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 910-8	5.4	16
116	In vitro corrosion and mineralization of novel TiSiTi alloy. <i>Electrochimica Acta</i> , 2011 , 56, 3809-3820	6.7	16
115	Novel fiber-based pure chitosan scaffold for tendon augmentation: biomechanical and cell biological evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 917-36	3.5	16
114	Effects of a Pasty Bone Cement Containing Brain-Derived Neurotrophic Factor-Functionalized Mesoporous Bioactive Glass Particles on Metaphyseal Healing in a New Murine Osteoporotic Fracture Model. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
113	Synthesis and physicochemical, in vitro and in vivo evaluation of an anisotropic, nanocrystalline hydroxyapatite bisque scaffold with parallel-aligned pores mimicking the microstructure of cortical bone. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, E152-66	4.4	15
112	Quantification of calcium content in bone by using ToF-SIMS--a first approach. <i>Biointerphases</i> , 2013 , 8, 31	1.8	15
111	Modifications of a calcium phosphate cement with biomolecules--influence on nanostructure, material, and biological properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 912-23	5.4	15
110	Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 286-297	2.9	14
109	Bioinspired interface design modulates pathogen and immunocyte responses in biomaterial-centered infection combination therapy. <i>Materials Horizons</i> , 2019 , 6, 1271-1282	14.4	14
108	Hypoxia-conditioned media allows species-specific attraction of bone marrow stromal cells without need for recombinant proteins. <i>BMC Veterinary Research</i> , 2014 , 10, 56	2.7	14

107	Bioreactors in tissue engineering: Advances in stem cell culture and three-dimensional tissue constructs. <i>Engineering in Life Sciences</i> , 2015 , 15, 670-677	3.4	14
106	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. <i>Macromolecular Bioscience</i> , 2015 , 15, 1283-95	5.5	14
105	Chemical characterization of hydroxyapatite obtained by wet chemistry in the presence of V, Co, and Cu ions. <i>Materials Science and Engineering C</i> , 2013 , 33, 1654-61	8.3	14
104	Chemotaxis of mesenchymal stem cells within 3D biomimetic scaffolds--a modeling approach. <i>Journal of Biomechanics</i> , 2011 , 44, 359-64	2.9	14
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