

# Michael Gelinsky

## List of Publications by Year in Descending Order

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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	Impact of degradable magnesium implants on osteocytes in single and triple cultures.. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112692	8.3	0
249	Additive manufacturing of polymers and ceramics for tissue engineering applications <b>2022</b> , 385-406		
248	Think outside the box: 3D bioprinting concepts for biotechnological applications - recent developments and future perspectives.. <i>Biotechnology Advances</i> , <b>2022</b> , 107930	17.8	0
247	CyMAD bioreactor: A cyclic magnetic actuation device for magnetically mediated mechanical stimulation of 3D bioprinted hydrogel scaffolds.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2022</b> , 131, 105253	4.1	1
246	Composite Bioinks With Mesoporous Bioactive Glasses-A Critical Evaluation of Results Obtained by Experiments.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 767256	5.8	1
245	Homogeneous and Reproducible Mixing of Highly Viscous Biomaterial Inks and Cell Suspensions to Create Bioinks. <i>Gels</i> , <b>2021</b> , 7,	4.2	1
244	GDF-5 variant loading on composite scaffolds promotes spinal fusion through coupling of osteogenesis and angiogenesis: A preclinical study in rhesus monkeys. <i>Smart Materials in Medicine</i> , <b>2021</b> , 2, 322-333	12.9	0
243	Wound and Skin Healing in Space: The 3D Bioprinting Perspective. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 720217	5.8	2
242	The transCampus Metabolic Training Programme Explores the Link of SARS-CoV-2 Virus to Metabolic Disease. <i>Hormone and Metabolic Research</i> , <b>2021</b> , 53, 204-206	3.1	1
241	Tailorable Zinc-Substituted Mesoporous Bioactive Glass/Alginate-Methylcellulose Composite Bioinks. <i>Materials</i> , <b>2021</b> , 14,	3.5	11
240	3D bioprinting of hepatocytes: core-shell structured co-cultures with fibroblasts for enhanced functionality. <i>Scientific Reports</i> , <b>2021</b> , 11, 5130	4.9	20
239	3D printed scaffolds of alginate/polyvinylalcohol with silk fibroin based on mimicked extracellular matrix for bone tissue engineering in maxillofacial surgery. <i>Materials Today Communications</i> , <b>2021</b> , 26, 102140	2.5	6
238	Chemotactic and Angiogenic Potential of Mineralized Collagen Scaffolds Functionalized with Naturally Occurring Bioactive Factor Mixtures to Stimulate Bone Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
237	Triple Culture of Primary Human Osteoblasts, Osteoclasts and Osteocytes as an In Vitro Bone Model. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
236	3D printing of patient-specific implants for osteochondral defects: workflow for an MRI-guided zonal design. <i>Bio-Design and Manufacturing</i> , <b>2021</b> , 4, 818-832	4.7	1
235	Bildgebungs-basiertes individuelles Design und additive Fertigung von osteochondralen Knochenersatzstrukturen <b>2021</b> , 19-35		
234	Bioprinting of Magnetically Deformable Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 648-662	5.5	10

233	Toward Biofabrication of Resorbable Implants Consisting of a Calcium Phosphate Cement and Fibrin-A Characterization In Vitro and In Vivo. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
232	Tailoring Materials for Modulation of Macrophage Fate. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004172	24	37
231	Influence of Cu on Osteoclast Formation and Activity In Vitro. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
230	25th anniversary of the Berlin workshop on developmental toxicology: DevTox database update, challenges in risk assessment of developmental neurotoxicity and alternative methodologies in bone development and growth. <i>Reproductive Toxicology</i> , <b>2021</b> , 100, 155-162	3.4	3
229	Using melt-electrowritten microfibres for tailoring scaffold mechanics of 3D bioprinted chondrocyte-laden constructs. <i>Bioprinting</i> , <b>2021</b> , 23, e00158	7	3
228	Anisotropic Chitosan Scaffolds Generated by Electrostatic Flocking Combined with Alginate Hydrogel Support Chondrogenic Differentiation. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
227	Biomimetic Tympanic Membrane Replacement Made by Melt Electrowriting. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002089	10.1	7
226	Characterization of Naturally Occurring Bioactive Factor Mixtures for Bone Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
225	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , <b>2020</b> , 140, 100543	30.9	241
224	A Novel Plasma-Based Bioink Stimulates Cell Proliferation and Differentiation in Bioprinted, Mineralized Constructs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12557-12572	9.5	41
223	Engineering considerations on extrusion-based bioprinting: interactions of material behavior, mechanical forces and cells in the printing needle. <i>Biofabrication</i> , <b>2020</b> , 12, 025022	10.5	52
222	Effect of $\text{N}_2$ airFreezing on post-thaw recovery of Callithrix jacchus mesenchymal stromal cells and properties of 3D collagen-hydroxyapatite scaffolds. <i>Cryobiology</i> , <b>2020</b> , 92, 215-230	2.7	9
221	Electrochemical method for isolation of chitinous 3D scaffolds from cultivated <i>Aplysina aerophoba</i> marine demosponge and its biomimetic application. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	10
220	Methylcellulose - a versatile printing material that enables biofabrication of tissue equivalents with high shape fidelity. <i>Biomaterials Science</i> , <b>2020</b> , 8, 2102-2110	7.4	34
219	IL-11 and soluble VCAM-1 are important components of Hypoxia Conditioned Media and crucial for Mesenchymal Stromal Cells attraction. <i>Stem Cell Research</i> , <b>2020</b> , 45, 101814	1.6	3
218	Nanoclay-based 3D printed scaffolds promote vascular ingrowth ex vivo and generate bone mineral tissue in vitro and in vivo. <i>Biofabrication</i> , <b>2020</b> , 12, 035010	10.5	31
217	New insights into ToF-SIMS imaging in osteoporotic bone research. <i>Biointerphases</i> , <b>2020</b> , 15, 031005	1.8	4
216	Bone Replacement: The Secretome of Hypoxia Conditioned hMSC Loaded in a Central Depot Induces Chemotaxis and Angiogenesis in a Biomimetic Mineralized Collagen Bone Replacement Material (Adv. Healthcare Mater. 2/2020). <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, 2070005	10.1	

215	Latest advances of bioprinting in space: an interview with Michael Gelinsky. <i>Journal of 3D Printing in Medicine</i> , <b>2020</b> , 4, 1-4	1.5	4
214	3D Bioprinting of osteochondral tissue substitutes - in vitro-chondrogenesis in multi-layered mineralized constructs. <i>Scientific Reports</i> , <b>2020</b> , 10, 8277	4.9	43
213	Can 3D bioprinting be a key for exploratory missions and human settlements on the Moon and Mars?. <i>Biofabrication</i> , <b>2020</b> , 12, 043001	10.5	10
212	Electrodeposition of Sr-substituted hydroxyapatite on low modulus beta-type Ti-45Nb and effect on in vitro Sr release and cell response. <i>Materials Science and Engineering C</i> , <b>2020</b> , 108, 110425	8.3	11
211	The Secretome of Hypoxia Conditioned hMSC Loaded in a Central Depot Induces Chemotaxis and Angiogenesis in a Biomimetic Mineralized Collagen Bone Replacement Material. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901426	10.1	12
210	Three-Dimensional Co-culture of Primary Human Osteocytes and Mature Human Osteoclasts in Collagen Gels. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 647-655	3.9	7
209	Determination of the Young's modulus for alginate-based hydrogel with magnetite-particles depending on storage conditions and particle concentration. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 501, 166395	2.8	6
208	Black Bioceramics: Combining Regeneration with Therapy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005140	24	26
207	Catechol Containing Polyelectrolyte Complex Nanoparticles as Local Drug Delivery System for Bortezomib at Bone Substitute Materials. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	1
206	Conchixes: organic scaffolds which resemble the size and shapes of mollusks shells, their isolation and potential multifunctional applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	7
205	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> , <b>2020</b> , 108, 174-182	3.5	18
204	Evaluation of topographical and chemical modified TiAl6V4 implant surfaces in a weight-bearing intramedullary femur model in rabbit. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1117-1128	3.5	3
203	An improved method to isolate primary human osteocytes from bone. <i>Biomedizinische Technik</i> , <b>2020</b> , 65, 107-111	1.3	10
202	3D Printing of Bone Grafts for Cleft Alveolar Osteoplasty - Evaluation in a Preclinical Model. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 217	5.8	18
201	Scaffold for bone tissue engineering <b>2019</b> , 189-209		3
200	In Vitro Co-culture Model of Primary Human Osteoblasts and Osteocytes in Collagen Gels. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	23
199	Investigation of strontium transport and strontium quantification in cortical rat bone by time-of-flight secondary ion mass spectrometry. <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20180638	4.1	13
198	3D Plotted Biphasic Bone Scaffolds for Growth Factor Delivery: Biological Characterization In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801512	10.1	30

197	3D Bioprinting of Functional Islets of Langerhans in an Alginate/Methylcellulose Hydrogel Blend. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801631	10.1	41
196	Bioinspired interface design modulates pathogen and immunocyte responses in biomaterial-centered infection combination therapy. <i>Materials Horizons</i> , <b>2019</b> , 6, 1271-1282	14.4	14
195	Cytotoxicity of drugs injected into joints in orthopaedics. <i>Bone and Joint Research</i> , <b>2019</b> , 8, 41-48	4.2	22
194	3D Printing of Hot Dog-Like Biomaterials with Hierarchical Architecture and Distinct Bioactivity. <i>Advanced Science</i> , <b>2019</b> , 6, 1901146	13.6	30
193	Chitinous Scaffolds from Marine Sponges for Tissue Engineering. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2019</b> , 285-307	0.6	1
192	Development and Characterization of Composites Consisting of Calcium Phosphate Cements and Mesoporous Bioactive Glass for Extrusion-Based Fabrication. <i>Materials</i> , <b>2019</b> , 12,	3.5	11
191	Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1672-1684	4.4	
190	Naturally Drug-Loaded Chitin: Isolation and Applications. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	26
189	Dnmt3a-Mediated DNA Methylation Changes Regulate Osteogenic Differentiation of hMSCs Cultivated in the 3D Scaffolds under Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 4824209	6.7	7
188	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> , <b>2019</b> , 30, 10	4.5	31
187	Primary Human Osteocyte Networks in Pure and Modified Collagen Gels. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 1347-1355	3.9	17
186	Two-step stem cell therapy improves bone regeneration compared to concentrated bone marrow therapy. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1318-1328	3.8	11
185	Influence of cobalt chromium alloy surface modification on the roughness and wettability behavior of pine oil/hydroxyapatite as coating. <i>Materials Research Express</i> , <b>2019</b> , 6, 025401	1.7	3
184	Incorporation of silicon into strontium modified calcium phosphate bone cements promotes osteoclastogenesis of human peripheral mononuclear blood cells. <i>Biomedical Materials (Bristol)</i> , <b>2019</b> , 14, 025004	3.5	5
183	Endosteal and Perivascular Subniches in a 3D Bone Marrow Model for Multiple Myeloma. <i>Tissue Engineering - Part C: Methods</i> , <b>2018</b> , 24, 300-312	2.9	18
182	Trivalent chromium incorporated in a crystalline calcium phosphate matrix accelerates materials degradation and bone formation in vivo. <i>Acta Biomaterialia</i> , <b>2018</b> , 69, 332-341	10.8	12
181	3D Printing <b>2018</b> , 109-122		1
180	S and B microalloying of biodegradable Fe-30Mn-1C - Effects on microstructure, tensile properties, in vitro degradation and cytotoxicity. <i>Materials and Design</i> , <b>2018</b> , 142, 22-35	8.1	17

179	Strontium-modified premixed calcium phosphate cements for the therapy of osteoporotic bone defects. <i>Acta Biomaterialia</i> , <b>2018</b> , 65, 475-485	10.8	55
178	Biphasic Scaffolds from Marine Collagens for Regeneration of Osteochondral Defects. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	28
177	Biopolymer hydrogel bioinks <b>2018</b> , 125-136		12
176	Bioprinting of mineralized constructs utilizing multichannel plotting of a self-setting calcium phosphate cement and a cell-laden bioink. <i>Biofabrication</i> , <b>2018</b> , 10, 045002	10.5	58
175	Label-free multiphoton microscopy reveals relevant tissue changes induced by alginate hydrogel implantation in rat spinal cord injury. <i>Scientific Reports</i> , <b>2018</b> , 8, 10841	4.9	11
174	Monitoring of Plant Cells and Tissues in Bioprocesses. <i>Reference Series in Phytochemistry</i> , <b>2018</b> , 433-481	0.7	3
173	Wet spinning and riboflavin crosslinking of collagen type I/III filaments. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 14, 015007	3.5	9
172	A definition of bioinks and their distinction from biomaterial inks. <i>Biofabrication</i> , <b>2018</b> , 11, 013001	10.5	273
171	Strontium-modification of porous scaffolds from mineralized collagen for potential use in bone defect therapy. <i>Materials Science and Engineering C</i> , <b>2018</b> , 84, 159-167	8.3	24
170	Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelotomy model. <i>Acta Neurochirurgica</i> , <b>2018</b> , 160, 449-457	3	20
169	Factors affecting the mechanical and geometrical properties of electrostatically flocculated pure chitosan fiber scaffolds. <i>Textile Research Journal</i> , <b>2018</b> , 88, 1965-1978	1.7	10
168	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> , <b>2018</b> , 19,	6.3	16
167	Functionalized Bioink with Optical Sensor Nanoparticles for O <sub>2</sub> Imaging in 3D-Bioprinted Constructs. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804411	15.6	34
166	Influence of Regioselectively Sulfated Cellulose on in Vitro Vascularization of Biomimetic Bone Matrices. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4228-4238	6.9	4
165	Green Bioprinting 3D-Druck mit pflanzlichen Zellen für die Biotechnologie. <i>Chemie-Ingenieur-Technik</i> , <b>2018</b> , 90, 1343-1343	0.8	
164	A Methylcellulose Hydrogel as Support for 3D Plotting of Complex Shaped Calcium Phosphate Scaffolds. <i>Gels</i> , <b>2018</b> , 4,	4.2	27
163	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> , <b>2018</b> , 29, 74	4.5	26
162	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> , <b>2017</b> , 11, 1710-1722	4.4	16

161	Current research directions in 3D printing in medicine. <i>Journal of 3D Printing in Medicine</i> , <b>2017</b> , 1, 5-7	1.5	6
160	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> , <b>2017</b> , 45, 224-236	4.7	62
159	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> , <b>2017</b> , 11, 1574-1587	4.4	131
158	Calcium phosphate bone cement/mesoporous bioactive glass composites for controlled growth factor delivery. <i>Biomaterials Science</i> , <b>2017</b> , 5, 578-588	7.4	47
157	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> , <b>2017</b> , 23, 286-297	2.9	14
156	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> , <b>2017</b> , 104, 1955-1965	7.9	60
155	Central Growth Factor Loaded Depots in Bone Tissue Engineering Scaffolds for Enhanced Cell Attraction. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 762-772	3.9	8
154	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> , <b>2017</b> , 104, 1966-1974	7.9	49
153	3D bioprinting scaffold using alginate/polyvinyl alcohol bioinks. <i>Materials Letters</i> , <b>2017</b> , 189, 295-298	3.3	49
152	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> , <b>2017</b> , 73, 99-110	8.3	26
151	Postembedding Decalcification of Mineralized Tissue Sections Preserves the Integrity of Implanted Biomaterials and Minimizes Number of Experimental Animals. <i>BioMed Research International</i> , <b>2017</b> , 2017, 2023853	3	4
150	Green bioprinting: extrusion-based fabrication of plant cell-laden biopolymer hydrogel scaffolds. <i>Biofabrication</i> , <b>2017</b> , 9, 045011	10.5	45
149	Additive Biotech-Chances, challenges, and recent applications of additive manufacturing technologies in biotechnology. <i>New Biotechnology</i> , <b>2017</b> , 39, 222-231	6.4	34
148	Intrinsic 3D Prestressing: A New Route for Increasing Strength and Improving Toughness of Hybrid Inorganic Biocements. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701035	24	6
147	Data on TOF-SIMS analysis of Cu, Co and Cr doped calcium phosphate cements. <i>Data in Brief</i> , <b>2017</b> , 13, 353-355	1.2	1
146	Strontium release from Sr-loaded bone cements and dispersion in healthy and osteoporotic rat bone. <i>Journal of Controlled Release</i> , <b>2017</b> , 262, 159-169	11.7	24
145	Three-dimensional bioprinting of volumetric tissues and organs. <i>MRS Bulletin</i> , <b>2017</b> , 42, 585-592	3.2	29
144	Development of a clay based bioink for 3D cell printing for skeletal application. <i>Biofabrication</i> , <b>2017</b> , 9, 034103	10.5	163

143	In situ functionalization of scaffolds during extrusion-based 3D plotting using a piezoelectric nanoliter pipette. <i>Journal of 3D Printing in Medicine</i> , <b>2017</b> , 1, 25-29	1.5	6
142	Metabolically conditioned media derived from bone marrow stromal cells or human skin fibroblasts act as effective chemoattractants for mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 212	8.3	12
141	Relevance of osteoclast-specific enzyme activities in cell-based in vitro resorption assays. <i>European Cells and Materials</i> , <b>2017</b> , 33, 28-42	4.3	27
140	Heparin modification of a biomimetic bone matrix modulates osteogenic and angiogenic cell response in vitro. <i>European Cells and Materials</i> , <b>2017</b> , 33, 105-120	4.3	19
139	Osteoclastic differentiation and resorption is modulated by bioactive metal ions Co <sup>2+</sup> , Cu <sup>2+</sup> and Cr <sup>3+</sup> incorporated into calcium phosphate bone cements. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182109	3.7	19
138	Cell-laden biphasic scaffolds with anisotropic structure for the regeneration of osteochondral tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 404-17	4.4	19
137	Electrostatic flocking of chitosan fibres leads to highly porous, elastic and fully biodegradable anisotropic scaffolds. <i>Acta Biomaterialia</i> , <b>2016</b> , 44, 267-76	10.8	19
136	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> , <b>2016</b> , 103, 1-39	30.9	142
135	Additive manufacturing of collagen scaffolds by three-dimensional plotting of highly viscous dispersions. <i>Biofabrication</i> , <b>2016</b> , 8, 015015	10.5	38
134	Anti-skeletal muscle atrophy effect of <i>Oenothera odorata</i> root extract via reactive oxygen species-dependent signaling pathways in cellular and mouse model. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2016</b> , 80, 80-8	2.1	11
133	Three-dimensional plotted hydroxyapatite scaffolds with predefined architecture: comparison of stabilization by alginate cross-linking versus sintering. <i>Journal of Biomaterials Applications</i> , <b>2016</b> , 30, 1168-81	2.9	25
132	New Bio-Inspired Processes for Synthesis and Surface Treatments of Biomaterials <b>2016</b> , 133-158		1
131	Monitoring of Plant Cells and Tissues in Bioprocesses. <i>Reference Series in Phytochemistry</i> , <b>2016</b> , 1-49	0.7	
130	A Hydrogel Model Incorporating 3D-Plotted Hydroxyapatite for Osteochondral Tissue Engineering. <i>Materials</i> , <b>2016</b> , 9,	3.5	23
129	Highly Concentrated Alginate-Gellan Gum Composites for 3D Plotting of Complex Tissue Engineering Scaffolds. <i>Polymers</i> , <b>2016</b> , 8,	4.5	42
128	Translation of cell therapy into clinical practice: validation of an application procedure for bone marrow progenitor cells and platelet rich plasma. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2016</b> , 14, e1-8	1.8	7
127	The effect of SDF-1 $\alpha$ 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> , <b>2016</b> , 104, 2126-34	5.4	32
126	Multiphase Biomineralization: Enigmatic Invasive Siliceous Diatoms Produce Crystalline Calcite. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2503-2510	15.6	30



125	Jellyfish collagen and alginate: Combined marine materials for superior chondrogenesis of hMSC. <i>Materials Science and Engineering C</i> , <b>2016</b> , 64, 190-198	8.3	41
124	Strontium substitution in apatitic CaP cements effectively attenuates osteoclastic resorption but does not inhibit osteoclastogenesis. <i>Acta Biomaterialia</i> , <b>2016</b> , 37, 184-94	10.8	52
123	Novel fiber-based pure chitosan scaffold for tendon augmentation: biomechanical and cell biological evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2016</b> , 27, 917-36	3.5	16
122	A versatile method for combining different biopolymers in a core/shell fashion by 3D plotting to achieve mechanically robust constructs. <i>Biofabrication</i> , <b>2016</b> , 8, 045001	10.5	62
121	Materials and scaffolds in medical 3D printing and bioprinting in the context of bone regeneration. <i>International Journal of Computerized Dentistry</i> , <b>2016</b> , 19, 301-321	4.5	17
120	Strontium modified calcium phosphate cements - approaches towards targeted stimulation of bone turnover. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 4626-4640	7.3	77
119	Green bioprinting: Viability and growth analysis of microalgae immobilized in 3D-plotted hydrogels versus suspension cultures. <i>Engineering in Life Sciences</i> , <b>2015</b> , 15, 678-688	3.4	32
118	Alginate/nanohydroxyapatite scaffolds with designed core/shell structures fabricated by 3D plotting and in situ mineralization for bone tissue engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6541-9	9.5	114
117	3D plotting of growth factor loaded calcium phosphate cement scaffolds. <i>Acta Biomaterialia</i> , <b>2015</b> , 27, 264-274	10.8	112
116	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> , <b>2015</b> , 9, E152-66	4.4	15
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