Clemens van Blitterswijk

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Desymmetrization via Activated Esters Enables Rapid Synthesis of Multifunctional Benzene-1,3,5-tricarboxamides and Creation of Supramolecular Hydrogelators. Journal of the American Chemical Society, 2022, 144, 4057-4070.	13.7	13
2	From Mice to Men: Generation of Human Blastocyst-Like Structures In Vitro. Frontiers in Cell and Developmental Biology, 2022, 10, 838356.	3.7	6
3	Mesoporous Silica-Coated Gold Nanoparticles for Multimodal Imaging and Reactive Oxygen Species Sensing of Stem Cells. ACS Applied Nano Materials, 2022, 5, 3237-3251.	5.0	8
4	Polystyrene Pocket Lithography: Sculpting Plastic with Light. Advanced Materials, 2022, 34, e2200687.	21.0	3
5	The response of three-dimensional pancreatic alpha and beta cell co-cultures to oxidative stress. PLoS ONE, 2022, 17, e0257578.	2.5	2
6	3D Lung-on-Chip Model Based on Biomimetically Microcurved Culture Membranes. ACS Biomaterials Science and Engineering, 2022, 8, 2684-2699.	5.2	27
7	Long-Term Controlled Growth Factor Release Using Layer-by-Layer Assembly for the Development of <i>In Vivo</i> Tissue-Engineered Blood Vessels. ACS Applied Materials & Interfaces, 2022, 14, 28591-28603.	8.0	9
8	Assessment of Cellâ€“Material Interactions in Three Dimensions through Dispersed Coaggregation of Microsized Biomaterials into Tissue Spheroids. Small, 2022, 18, .	10.0	7
9	Oxidative stress in pancreatic alpha and beta cells as a selection criterion for biocompatible biomaterials. Biomaterials, 2021, 267, 120449.	11.4	11
10	Control Delivery of Multiple Growth Factors to Actively Steer Differentiation and Extracellular Matrix Protein Production. Advanced Biology, 2021, 5, 2000205.	2.5	2
11	Realizing tissue integration with supramolecular hydrogels. Acta Biomaterialia, 2021, 124, 1-14.	8.3	29
12	Bioprinting Via a Dual-Gel Bioink Based on Poly(Vinyl Alcohol) and Solubilized Extracellular Matrix towards Cartilage Engineering. International Journal of Molecular Sciences, 2021, 22, 3901.	4.1	27
13	The Role of Pancreatic Alpha Cells and Endothelial Cells in the Reduction of Oxidative Stress in Pseudoislets. Frontiers in Bioengineering and Biotechnology, 2021, 9, 729057.	4.1	4
14	PEOT/PBT Polymeric Pastes to Fabricate Additive Manufactured Scaffolds for Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 704185.	4.1	1
15	Thin fluorinated polymer film microcavity arrays for 3D cell culture and label-free automated feature extraction. Biomaterials Science, 2021, 9, 7838-7850.	5.4	2
16	Synthetic Materials that Affect the Extracellular Matrix via Cellular Metabolism and Responses to a Metabolic State. Frontiers in Bioengineering and Biotechnology, 2021, 9, 742132.	4.1	5
17	The Role of Alpha Cells in the Self-Assembly of Bioengineered Islets. Tissue Engineering - Part A, 2020, 27, 1055-1063.	3.1	3
18	A New Microengineered Platform for 4D Tracking of Single Cells in a Stemâ€Cellâ€Based In Vitro Morphogenesis Model. Advanced Materials, 2020, 32, e1907966.	21.0	10

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19	Cell culture dimensionality influences mesenchymal stem cell fate through cadherin-2 and cadherin-11. Biomaterials, 2020, 254, 120127.	11.4	13
20	Overcoming kidney organoid challenges for regenerative medicine. Npj Regenerative Medicine, 2020, 5, 8.	5.2	48
21	Singleâ€Cell Tracking: A New Microengineered Platform for 4D Tracking of Single Cells in a Stemâ€Cellâ€Based In Vitro Morphogenesis Model (Adv. Mater. 24/2020). Advanced Materials, 2020, 32, 2070182.	21.0	0
22	Building Complex Life Through Self-Organization. Tissue Engineering - Part A, 2019, 25, 1341-1346.	3.1	17
23	Oxygen and nutrient delivery in tissue engineering: Approaches to graft vascularization. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1815-1829.	2.7	87
24	Hybrid Polyester-Hydrogel Electrospun Scaffolds for Tissue Engineering Applications. Frontiers in Bioengineering and Biotechnology, 2019, 7, 231.	4.1	16
25	From fiber curls to mesh waves: a platform for the fabrication of hierarchically structured nanofibers mimicking natural tissue formation. Nanoscale, 2019, 11, 14312-14321.	5.6	10
26	Overlooked? Underestimated? Effects of Substrate Curvature on Cell Behavior. Trends in Biotechnology, 2019, 37, 838-854.	9.3	107
27	Grow with the Flow: When Morphogenesis Meets Microfluidics. Advanced Materials, 2019, 31, e1805764.	21.0	42
28	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. Biomaterials Science, 2019, 8, 174-188.	5.4	22
29	Blastocyst-like structures generated solely from stem cells. Nature, 2018, 557, 106-111.	27.8	366
30	An antibody based approach for multi-coloring osteogenic and chondrogenic proteins in tissue engineered constructs. Biomedical Materials (Bristol), 2018, 13, 044102.	3.3	4
31	New insights into the effects of biomaterial chemistry and topography on the morphology of kidney epithelial cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e817-e827.	2.7	13
32	Ectopic bone formation by aggregated mesenchymal stem cells from bone marrow and adipose tissue: A comparative study. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e150-e158.	2.7	65
33	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. Gels, 2018, 4, 85.	4.5	68
34	Redox regulation in regenerative medicine and tissue engineering: The paradox of oxygen. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2013-2020.	2.7	36
35	The Components of Bone and What They Can Teach Us about Regeneration. Materials, 2018, 11, 14.	2.9	65
36	Designed Surface Topographies Control ICAM-1 Expression in Tonsil-Derived Human Stromal Cells. Frontiers in Bioengineering and Biotechnology, 2018, 6, 87.	4.1	10

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37	<i>O</i>-Phenanthroline as modulator of the hypoxic and catabolic response in cartilage tissue-engineering models. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 724-732.	2.7	2
38	Micro-Topographies Promote Late Chondrogenic Differentiation Markers in the ATDC5 Cell Line. Tissue Engineering - Part A, 2017, 23, 458-469.	3.1	14
39	Cells responding to surface structure of calcium phosphate ceramics for bone regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3273-3283.	2.7	18
40	Mining for osteogenic surface topographies: In silico design to inÂvivo osseo-integration. Biomaterials, 2017, 137, 49-60.	11.4	66
41	Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis. Acta Biomaterialia, 2017, 57, 487-497.	8.3	45
42	Calcium phosphates and silicon: exploring methods of incorporation. Biomaterials Research, 2017, 21, 6.	6.9	11
43	3D screening device for the evaluation of cell response to different electrospun microtopographies. Acta Biomaterialia, 2017, 55, 310-322.	8.3	16
44	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. Biomaterials, 2017, 135, 10-22.	11.4	33
45	Linking the Transcriptional Landscape of Bone Induction to Biomaterial Design Parameters. Advanced Materials, 2017, 29, 1603259.	21.0	34
46	Hydrogels that listen to cells: a review of cell-responsive strategies in biomaterial design for tissue regeneration. Materials Horizons, 2017, 4, 1020-1040.	12.2	144
47	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 38187-38200.	8.0	97
48	NanoTopoChip: High-throughput nanotopographical cell instruction. Acta Biomaterialia, 2017, 62, 188-198.	8.3	36
49	Covalent Binding of Bone Morphogenetic Proteinâ€2 and Transforming Growth Factorâ€Î²3 to 3D Plotted Scaffolds for Osteochondral Tissue Regeneration. Biotechnology Journal, 2017, 12, 1700072.	3.5	46
50	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. Biofabrication, 2017, 9, 031001.	7.1	121
51	Cell-instructive high-resolution micropatterned polylactic acid surfaces. Biofabrication, 2017, 9, 035004.	7.1	14
52	Tailorable Surface Morphology of 3D Scaffolds by Combining Additive Manufacturing with Thermally Induced Phase Separation. Macromolecular Rapid Communications, 2017, 38, 1700186.	3.9	15
53	Development of a shear stress-free microfluidic gradient generator capable of quantitatively analyzing single-cell morphology. Biomedical Microdevices, 2017, 19, 81.	2.8	7
54	Tailoring surface nanoroughness of electrospun scaffolds for skeletal tissue engineering. Acta Biomaterialia, 2017, 59, 82-93.	8.3	93

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55	An Approach to In Vitro Manufacturing of Hypertrophic Cartilage Matrix for Bone Repair. Bioengineering, 2017, 4, 35.	3.5	7
56	Influence of Additive Manufactured Scaffold Architecture on the Distribution of Surface Strains and Fluid Flow Shear Stresses and Expected Osteochondral Cell Differentiation. Frontiers in Bioengineering and Biotechnology, 2017, 5, 6.	4.1	45
57	The Use of Finite Element Analyses to Design and Fabricate Three-Dimensional Scaffolds for Skeletal Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2017, 5, 30.	4.1	36
58	Engineering Niches for Bone Tissue Regeneration. , 2017, , 499-516.		1
59	Increased cell seeding efficiency in bioplotted three-dimensional PEOT/PBT scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 679-689.	2.7	34
60	Collagen modules for<i>in situ</i>delivery of mesenchymal stromal cell-derived endothelial cells for improved angiogenesis. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 363-373.	2.7	8
61	Spatial distribution and survival of human and goat mesenchymal stromal cells on hydroxyapatite andÎ²-tricalcium phosphate. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 233-244.	2.7	12
62	The Effects of Crystal Phase and Particle Morphology of Calcium Phosphates on Proliferation and Differentiation of Human Mesenchymal Stromal Cells. Advanced Healthcare Materials, 2016, 5, 1775-1785.	7.6	17
63	Human mesenchymal stromal cells response to biomimetic octacalcium phosphate containing strontium. Journal of Biomedical Materials Research - Part A, 2016, 104, 1946-1960.	4.0	21
64	Biological and Tribological Assessment of Poly(Ethylene Oxide Terephthalate)/Poly(Butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 T Regeneration. Advanced Healthcare Materials, 2016, 5, 232-243.	7.6	11
65	Hybrid Polycaprolactone/Alginate Scaffolds Functionalized with VEGF to Promote de Novo Vessel Formation for the Transplantation of Islets of Langerhans. Advanced Healthcare Materials, 2016, 5, 1606-1616.	7.6	60
66	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. Advanced Healthcare Materials, 2016, 5, 1753-1763.	7.6	62
67	Directed Assembly and Development of Materialâ€Free Tissues with Complex Architectures. Advanced Materials, 2016, 28, 4032-4039.	21.0	54
68	Gradients in pore size enhance the osteogenic differentiation of human mesenchymal stromal cells in three-dimensional scaffolds. Scientific Reports, 2016, 6, 22898.	3.3	147
69	Mimicking natural cell environments: design, fabrication and application of bio-chemical gradients on polymeric biomaterial substrates. Journal of Materials Chemistry B, 2016, 4, 4244-4257.	5.8	37
70	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. Biofabrication, 2016, 8, 045007.	7.1	63
71	Moldâ€Based Application of Laserâ€Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. Macromolecular Bioscience, 2016, 16, 43-49.	4.1	12
72	Back Cover: Macromol. Biosci. 1/2016. Macromolecular Bioscience, 2016, 16, 168-168.	4.1	0

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73	Osteochondral Regeneration: Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration (Adv. Healthcare Mater. 14/2016). Advanced Healthcare Materials, 2016, 5, 1832-1832.	7.6	4
74	Scalable topographies to support proliferation and Oct4 expression by human induced pluripotent stem cells. Scientific Reports, 2016, 6, 18948.	3.3	65
75	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. ACS Nano, 2016, 10, 5789-5799.	14.6	62
76	Development of Highly Functional Biomaterials by Decoupling and Recombining Material Properties. Advanced Materials, 2016, 28, 1803-1808.	21.0	17
77	Micro-aggregates do not influence bone marrow stromal cell chondrogenesis. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 1021-1032.	2.7	5
78	Influencing chondrogenic differentiation of human mesenchymal stromal cells in scaffolds displaying a structural gradient in pore size. Acta Biomaterialia, 2016, 36, 210-219.	8.3	88
79	Stimulatory effect of cobalt ions incorporated into calcium phosphate coatings on neovascularization in an in vivo intramuscular model in goats. Acta Biomaterialia, 2016, 36, 267-276.	8.3	36
80	Combinatorial incorporation of fluoride and cobalt ions into calcium phosphates to stimulate osteogenesis and angiogenesis. Biomedical Materials (Bristol), 2016, 11, 015020.	3.3	33
81	Monolithic calcium phosphate/poly(lactic acid) composite versus calcium phosphate-coated poly(lactic acid) for support of osteogenic differentiation of human mesenchymal stromal cells. Journal of Materials Science: Materials in Medicine, 2016, 27, 54.	3.6	11
82	Methods of Monitoring Cell Fate and Tissue Growth in Three-Dimensional Scaffold-Based Strategies for<i>In Vitro</i>Tissue Engineering. Tissue Engineering - Part B: Reviews, 2016, 22, 265-283.	4.8	19
83	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. Biofabrication, 2016, 8, 015014.	7.1	48
84	Surface micropatterning with zirconia and calcium phosphate ceramics by micromoulding in capillaries. Journal of Materials Chemistry B, 2016, 4, 1044-1055.	5.8	9
85	Tailoring chemical and physical properties of fibrous scaffolds from block copolyesters containing ether and thio-ether linkages for skeletal differentiation of human mesenchymal stromal cells. Biomaterials, 2016, 76, 261-272.	11.4	26
86	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. Tissue Engineering - Part A, 2016, 22, 336-348.	3.1	24
87	Coculturing Human Islets with Proangiogenic Support Cells to Improve Islet Revascularization at the Subcutaneous Transplantation Site. Tissue Engineering - Part A, 2016, 22, 375-385.	3.1	27
88	Adhesion and proliferation of cells and bacteria on microchip with different surfaces microstructures. Biomedizinische Technik, 2016, 61, 475-482.	0.8	5
89	3D high throughput screening and profiling of embryoid bodies in thermoformed microwell plates. Lab on A Chip, 2016, 16, 734-742.	6.0	63
90	High-throughput screening approaches and combinatorial development of biomaterials using microfluidics. Acta Biomaterialia, 2016, 34, 1-20.	8.3	84

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91	Controlled aggregation of primary human pancreatic islet cells leads to glucoseâ€responsive pseudoislets comparable to native islets. Journal of Cellular and Molecular Medicine, 2015, 19, 1836-1846.	3.6	64
92	A combinatorial approach towards the design of nanofibrous scaffolds for chondrogenesis. Scientific Reports, 2015, 5, 14804.	3.3	31
93	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. Data in Brief, 2015, 5, 84-94.	1.0	1
94	Exploring the Materialâ€Induced Transcriptional Landscape of Osteoblasts on Bone Graft Materials. Advanced Healthcare Materials, 2015, 4, 1691-1700.	7.6	12
95	Microporous calcium phosphate ceramics driving osteogenesis through surface architecture. Journal of Biomedical Materials Research - Part A, 2015, 103, 1188-1199.	4.0	54
96	Distribution and Viability of Fetal and Adult Human Bone Marrow Stromal Cells in a Biaxial Rotating Vessel Bioreactor after Seeding on Polymeric 3D Additive Manufactured Scaffolds. Frontiers in Bioengineering and Biotechnology, 2015, 3, 169.	4.1	18
97	Fabrication of three-dimensional bioplotted hydrogel scaffolds for islets of Langerhans transplantation. Biofabrication, 2015, 7, 025009.	7.1	136
98	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression inÂvitro and inÂvivo. Biomaterials, 2015, 61, 190-202.	11.4	9
99	Analysis of high-throughput screening reveals the effect of surface topographies on cellular morphology. Acta Biomaterialia, 2015, 15, 29-38.	8.3	61
100	Microfluidic platform with four orthogonal and overlapping gradients for soluble compound screening in regenerative medicine research. Electrophoresis, 2015, 36, 475-484.	2.4	13
101	Elucidating the individual effects of calcium and phosphate ions on hMSCs by using composite materials. Acta Biomaterialia, 2015, 17, 1-15.	8.3	56
102	Evaluation of Cartilage Repair by Mesenchymal Stem Cells Seeded on a PEOT/PBT Scaffold in an Osteochondral Defect. Annals of Biomedical Engineering, 2015, 43, 2069-2082.	2.5	25
103	High-Throughput Screening Assay for the Identification of Compounds Enhancing Collagenous Extracellular Matrix Production by ATDC5 Cells. Tissue Engineering - Part C: Methods, 2015, 21, 726-736.	2.1	12
104	Creeping Proteins in Microporous Structures: Polymer Brushâ€Assisted Fabrication of 3D Gradients for Tissue Engineering. Advanced Healthcare Materials, 2015, 4, 1169-1174.	7.6	39
105	Differentiation of Mesenchymal Stem Cells under Hypoxia and Normoxia: Lipid Profiles Revealed by Time-of-Flight Secondary Ion Mass Spectrometry and Multivariate Analysis. Analytical Chemistry, 2015, 87, 3981-3988.	6.5	25
106	The osteochondral interface as a gradient tissue: From development to the fabrication of gradient scaffolds for regenerative medicine. Birth Defects Research Part C: Embryo Today Reviews, 2015, 105, 34-52.	3.6	110
107	MicroRNA Levels as Prognostic Markers for the Differentiation Potential of Human Mesenchymal Stromal Cell Donors. Stem Cells and Development, 2015, 24, 1946-1955.	2.1	10
108	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. RSC Advances, 2015, 5, 54510-54516.	3.6	29

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109	Differentiation capacity and maintenance of differentiated phenotypes of human mesenchymal stromal cells cultured on two distinct types of 3D polymeric scaffolds. Integrative Biology (United Kingdom), 2015, 7, 1574-1586.	1.3	6
110	Plug and play: combining materials and technologies to improve bone regenerative strategies. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 745-759.	2.7	21
111	Monitoring nutrient transport in tissue-engineered grafts. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 952-960.	2.7	32
112	An Open Source Image Processing Method to Quantitatively Assess Tissue Growth after Non-Invasive Magnetic Resonance Imaging in Human Bone Marrow Stromal Cell Seeded 3D Polymeric Scaffolds. PLoS ONE, 2014, 9, e115000.	2.5	6
113	Distinct Effect of TCF4 on the NFÎºB Pathway in Human Primary Chondrocytes and the C20/A4 Chondrocyte Cell Line. Cartilage, 2014, 5, 181-189.	2.7	3
114	Modeling mechanical signals on the surface of ÂµCT and CAD based rapid prototype scaffold models to predict (early stage) tissue development. Biotechnology and Bioengineering, 2014, 111, 1864-1875.	3.3	18
115	Suppression of the immune system as a critical step for bone formation from allogeneic osteoprogenitors implanted in rats. Journal of Cellular and Molecular Medicine, 2014, 18, 134-142.	3.6	23
116	In vitro and in vivo bioactivity assessment of a polylactic acid/hydroxyapatite composite for bone regeneration. Biomatter, 2014, 4, e27664.	2.6	89
117	Development of multilayer constructs for tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 106-119.	2.7	10
118	Mesenchymal Stromal/Stem Cellâ€“or Chondrocyte-Seeded Microcarriers as Building Blocks for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 2513-2523.	3.1	42
119	Engineered Microâ€Objects as Scaffolding Elements in Cellular Building Blocks for Bottomâ€Up Tissue Engineering Approaches. Advanced Materials, 2014, 26, 2592-2599.	21.0	78
120	The size of surface microstructures as an osteogenic factor in calcium phosphate ceramics. Acta Biomaterialia, 2014, 10, 3254-3263.	8.3	133
121	Microtiter plate-sized standalone chip holder for microenvironmental physiological control in gas-impermeable microfluidic devices. Lab on A Chip, 2014, 14, 1816-1820.	6.0	17
122	On the Horizon: Instructive nanomaterials hold the potential to mimic tissue complexity. IEEE Pulse, 2014, 5, 44-49.	0.3	2
123	Metabolic programming of mesenchymal stromal cells by oxygen tension directs chondrogenic cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13954-13959.	7.1	104
124	A Supramolecular Hostâ€“Guest Carrier System for Growth Factors Employing VHH Fragments. Journal of the American Chemical Society, 2014, 136, 12675-12681.	13.7	37
125	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. Journal of Controlled Release, 2014, 187, 66-73.	9.9	63
126	Peptide functionalized polyhydroxyalkanoate nanofibrous scaffolds enhance Schwann cells activity. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1559-1569.	3.3	59

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127	Inflammatory response and bone healing capacity of two porous calcium phosphate ceramics in critical size cortical bone defects. Journal of Biomedical Materials Research - Part A, 2014, 102, 1399-1407.	4.0	27
128	A biocomposite of collagen nanofibers and nanohydroxyapatite for bone regeneration. Biofabrication, 2014, 6, 035015.	7.1	53
129	Towards an in vitro model mimicking the foreign body response: tailoring the surface properties of biomaterials to modulate extracellular matrix. Scientific Reports, 2014, 4, 6325.	3.3	74
130	Development of materials for regenerative medicine: from clinical need to clinical application. , 2013, , 155-176.		1
131	Bioinformatics-based selection of a model cell type for inÂvitro biomaterial testing. Biomaterials, 2013, 34, 5552-5561.	11.4	11
132	Regeneration-on-a-chip? The perspectives on use of microfluidics in regenerative medicine. Lab on A Chip, 2013, 13, 3512.	6.0	96
133	Cell Sources for Articular Cartilage Repair Strategies: Shifting from Monocultures to Cocultures. Tissue Engineering - Part B: Reviews, 2013, 19, 31-40.	4.8	65
134	Molecular mechanisms of biomaterial-driven osteogenic differentiation in human mesenchymal stromal cells. Integrative Biology (United Kingdom), 2013, 5, 920-931.	1.3	88
135	Engineering New Bone via a Minimally Invasive Route Using Human Bone Marrow-Derived Stromal Cell Aggregates, Microceramic Particles, and Human Platelet-Rich Plasma Gel. Tissue Engineering - Part A, 2013, 19, 340-349.	3.1	12
136	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. Arthritis Research and Therapy, 2013, 15, R126.	3.5	74
137	Poly(N-isopropylacrylamide)â€"poly(ferrocenylsilane) dual-responsive hydrogels: synthesis, characterization and antimicrobial applications. Polymer Chemistry, 2013, 4, 337-342.	3.9	65
138	Effect of Antioxidant Supplementation on the Total Yield, Oxidative Stress Levels, and Multipotency of Bone Marrow-Derived Human Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2013, 19, 928-937.	3.1	24
139	The homing of bone marrow MSCs to non-osseous sites for ectopic bone formation induced by osteoinductive calcium phosphate. Biomaterials, 2013, 34, 2167-2176.	11.4	102
140	A clinical feasibility study to evaluate the safety and efficacy of PEOT/PBT implants for human donor site filling during mosaicplasty. European Journal of Orthopaedic Surgery and Traumatology, 2013, 23, 81-91.	1.4	18
141	A modular versatile chip carrier for high-throughput screening of cellâ€"biomaterial interactions. Journal of the Royal Society Interface, 2013, 10, 20120753.	3.4	12
142	Predicting the therapeutic efficacy of MSC in bone tissue engineering using the molecular marker CADM1. Biomaterials, 2013, 34, 4592-4601.	11.4	53
143	A small molecule approach to engineering vascularized tissue. Biomaterials, 2013, 34, 3053-3063.	11.4	31
144	Monolithic and assembled polymerâ€"ceramic composites for bone regeneration. Acta Biomaterialia, 2013, 9, 5708-5717.	8.3	29

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145	The effect of scaffold-cell entrapment capacity and physico-chemical properties on cartilage regeneration. Biomaterials, 2013, 34, 4259-4265.	11.4	39
146	Gene expression profiling of dedifferentiated human articular chondrocytes inÂmonolayer culture. Osteoarthritis and Cartilage, 2013, 21, 599-603.	1.3	147
147	Spheroid culture as a tool for creating 3D complex tissues. Trends in Biotechnology, 2013, 31, 108-115.	9.3	811
148	Materiomics: An â€<i>omics</i> Approach to Biomaterials Research. Advanced Materials, 2013, 25, 802-824.	21.0	134
149	Mesenchymal stromal cell-derived extracellular matrix influences gene expression of chondrocytes. Biofabrication, 2013, 5, 025003.	7.1	30
150	Insulin-Like Growth Factor-I Enhances Proliferation and Differentiation of Human Mesenchymal Stromal Cells <i>In Vitro</i>. Tissue Engineering - Part A, 2013, 19, 1817-1828.	3.1	17
151	Fibroblast Growth Factor-1 Is a Mesenchymal Stromal Cell-Secreted Factor Stimulating Proliferation of Osteoarthritic Chondrocytes in Co-Culture. Stem Cells and Development, 2013, 22, 2356-2367.	2.1	64
152	<i>In vivo</i>screening of extracellular matrix components produced under multiple experimental conditions implanted in one animal. Integrative Biology (United Kingdom), 2013, 5, 889-898.	1.3	31
153	The Effect of Donor Variation and Senescence on Endothelial Differentiation of Human Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2013, 19, 2318-2329.	3.1	26
154	Combining technologies to create bioactive hybrid scaffolds for bone tissue engineering. Biomatter, 2013, 3, e23705.	2.6	40
155	A Fast Process for Imprinting Micro and Nano Patterns on Electrospun Fiber Meshes at Physiological Temperatures. Small, 2013, 9, 3405-3409.	10.0	42
156	High content imaging in the screening of biomaterial-induced MSC behavior. Biomaterials, 2013, 34, 1498-1505.	11.4	21
157	Thin Polymer Brush Decouples Biomaterialâ€™s Micro-/Nanotopology and Stem Cell Adhesion. Langmuir, 2013, 29, 13843-13852.	3.5	31
158	A Dual Flow Bioreactor with Controlled Mechanical Stimulation for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2013, 19, 774-783.	2.1	29
159	Label-free Raman monitoring of extracellular matrix formation in three-dimensional polymeric scaffolds. Journal of the Royal Society Interface, 2013, 10, 20130464.	3.4	43
160	T Cell Factor 4 Is a Pro-catabolic and Apoptotic Factor in Human Articular Chondrocytes by Potentiating Nuclear Factor ÎºB Signaling. Journal of Biological Chemistry, 2013, 288, 17552-17558.	3.4	58
161	Boosting Angiogenesis and Functional Vascularization in Injectable Dextranâ€“Hyaluronic Acid Hydrogels by Endothelial-Like Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2013, 20, 131112094536009.	3.1	16
162	Electrospinning: A Fast Process for Imprinting Micro and Nano Patterns on Electrospun Fiber Meshes at Physiological Temperatures (Small 20/2013). Small, 2013, 9, 3544-3544.	10.0	1

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163	Small molecule inhibitors of WNT/Î²-catenin signaling block IL-1Î²- and TNFÎ±-induced cartilage degradation. Arthritis Research and Therapy, 2013, 15, R93.	3.5	32
164	Microwell Scaffolds for the Extrahepatic Transplantation of Islets of Langerhans. PLoS ONE, 2013, 8, e64772.	2.5	56
165	Fabrication, Characterization and Cellular Compatibility of Poly(Hydroxy Alkanoate) Composite Nanofibrous Scaffolds for Nerve Tissue Engineering. PLoS ONE, 2013, 8, e57157.	2.5	113
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