

# Clemens van Blitterswijk

## 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.

493  
papers

34,109  
citations

102  
h-index

162  
g-index

510  
ext. papers

37,018  
ext. citations

8.1  
avg, IF

7.17  
L-index

#	Paper	IF	Citations
493	From Mice to Men: Generation of Human Blastocyst-Like Structures .. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 838356	5.7	1
492	Mesoporous Silica-Coated Gold Nanoparticles for Multimodal Imaging and Reactive Oxygen Species Sensing of Stem Cells.. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 3237-3251	5.6	2
491	Polystyrene Pocket Lithography - Sculpting Plastic with Light.. <i>Advanced Materials</i> , <b>2022</b> , e2200687	24	
490	The response of three-dimensional pancreatic alpha and beta cell co-cultures to oxidative stress.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0257578	3.7	
489	Thin fluorinated polymer film microcavity arrays for 3D cell culture and label-free automated feature extraction. <i>Biomaterials Science</i> , <b>2021</b> , 9, 7838-7850	7.4	0
488	Synthetic Materials that Affect the Extracellular Matrix via Cellular Metabolism and Responses to a Metabolic State. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 742132	5.8	0
487	The Role of Alpha Cells in the Self-Assembly of Bioengineered Islets. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 1055-1063	3.9	1
486	Control Delivery of Multiple Growth Factors to Actively Steer Differentiation and Extracellular Matrix Protein Production. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000205		0
485	Realizing tissue integration with supramolecular hydrogels. <i>Acta Biomaterialia</i> , <b>2021</b> , 124, 1-14	10.8	7
484	Bioprinting Via a Dual-Gel Bioink Based on Poly(Vinyl Alcohol) and Solubilized Extracellular Matrix towards Cartilage Engineering. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
483	Oxidative stress in pancreatic alpha and beta cells as a selection criterion for biocompatible biomaterials. <i>Biomaterials</i> , <b>2021</b> , 267, 120449	15.6	5
482	The Role of Pancreatic Alpha Cells and Endothelial Cells in the Reduction of Oxidative Stress in Pseudoislets. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 729057	5.8	0
481	PEOT/PBT Polymeric Pastes to Fabricate Additive Manufactured Scaffolds for Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 704185	5.8	
480	A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907966	24	7
479	Cell culture dimensionality influences mesenchymal stem cell fate through cadherin-2 and cadherin-11. <i>Biomaterials</i> , <b>2020</b> , 254, 120127	15.6	8
478	Overcoming kidney organoid challenges for regenerative medicine. <i>Npj Regenerative Medicine</i> , <b>2020</b> , 5, 8	15.8	26
477	Single-Cell Tracking: A New Microengineered Platform for 4D Tracking of Single Cells in a Stem-Cell-Based In Vitro Morphogenesis Model (Adv. Mater. 24/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070182	24	

476	Hybrid Polyester-Hydrogel Electrospun Scaffolds for Tissue Engineering Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 231	5.8	7
475	From fiber curls to mesh waves: a platform for the fabrication of hierarchically structured nanofibers mimicking natural tissue formation. <i>Nanoscale</i> , <b>2019</b> , 11, 14312-14321	7.7	5
474	Overlooked? Underestimated? Effects of Substrate Curvature on Cell Behavior. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 838-854	15.1	51
473	Building Complex Life Through Self-Organization. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 1341-1346	3.9	11
472	Oxygen and nutrient delivery in tissue engineering: Approaches to graft vascularization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1815-1829	4.4	45
471	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. <i>Biomaterials Science</i> , <b>2019</b> , 8, 174-188	7.4	10
470	Grow with the Flow: When Morphogenesis Meets Microfluidics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805764	24	30
469	Blastocyst-like structures generated solely from stem cells. <i>Nature</i> , <b>2018</b> , 557, 106-111	50.4	216
468	An antibody based approach for multi-coloring osteogenic and chondrogenic proteins in tissue engineered constructs. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 13, 044102	3.5	2
467	New insights into the effects of biomaterial chemistry and topography on the morphology of kidney epithelial cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e817-e827	4.4	10
466	Ectopic bone formation by aggregated mesenchymal stem cells from bone marrow and adipose tissue: A comparative study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e150-e158	4.4	46
465	Redox regulation in regenerative medicine and tissue engineering: The paradox of oxygen. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 2013-2020	4.4	24
464	Designed Surface Topographies Control ICAM-1 Expression in Tonsil-Derived Human Stromal Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 87	5.8	10
463	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , <b>2018</b> , 4,	4.2	44
462	O-Phenanthroline as modulator of the hypoxic and catabolic response in cartilage tissue-engineering models. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 724-732	4.4	1
461	Micro-Topographies Promote Late Chondrogenic Differentiation Markers in the ATDC5 Cell Line. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 458-469	3.9	10
460	Cells responding to surface structure of calcium phosphate ceramics for bone regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 3273-3283	4.4	11
459	Mining for osteogenic surface topographies: In silico design to in vivo osseo-integration. <i>Biomaterials</i> , <b>2017</b> , 137, 49-60	15.6	49

458	Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis. <i>Acta Biomaterialia</i> , <b>2017</b> , 57, 487-497	10.8	29
457	Calcium phosphates and silicon: exploring methods of incorporation. <i>Biomaterials Research</i> , <b>2017</b> , 21, 6	16.8	5
456	3D screening device for the evaluation of cell response to different electrospun microtopographies. <i>Acta Biomaterialia</i> , <b>2017</b> , 55, 310-322	10.8	13
455	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. <i>Biomaterials</i> , <b>2017</b> , 135, 10-22	15.6	23
454	Linking the Transcriptional Landscape of Bone Induction to Biomaterial Design Parameters. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603259	24	26
453	Hydrogels that listen to cells: a review of cell-responsive strategies in biomaterial design for tissue regeneration. <i>Materials Horizons</i> , <b>2017</b> , 4, 1020-1040	14.4	106
452	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38187-38200	9.5	68
451	Engineering Niches for Bone Tissue Regeneration <b>2017</b> , 499-516		1
450	The Components of Bone and What They Can Teach Us about Regeneration. <i>Materials</i> , <b>2017</b> , 11,	3.5	33
449	NanoTopoChip: High-throughput nanotopographical cell instruction. <i>Acta Biomaterialia</i> , <b>2017</b> , 62, 188-198	8.8	26
448	Covalent Binding of Bone Morphogenetic Protein-2 and Transforming Growth Factor- $\beta$ to 3D Plotted Scaffolds for Osteochondral Tissue Regeneration. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700072	5.6	36
447	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. <i>Biofabrication</i> , <b>2017</b> , 9, 031001	10.5	83
446	Cell-instructive high-resolution micropatterned polylactic acid surfaces. <i>Biofabrication</i> , <b>2017</b> , 9, 035004	10.5	12
445	Tailorable Surface Morphology of 3D Scaffolds by Combining Additive Manufacturing with Thermally Induced Phase Separation. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700186	4.8	9
444	Development of a shear stress-free microfluidic gradient generator capable of quantitatively analyzing single-cell morphology. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 81	3.7	6
443	Tailoring surface nanoroughness of electrospun scaffolds for skeletal tissue engineering. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 82-93	10.8	64
442	An Approach to In Vitro Manufacturing of Hypertrophic Cartilage Matrix for Bone Repair. <i>Bioengineering</i> , <b>2017</b> , 4,	5.3	5
441	Influence of Additive Manufactured Scaffold Architecture on the Distribution of Surface Strains and Fluid Flow Shear Stresses and Expected Osteochondral Cell Differentiation. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 6	5.8	28

440	The Use of Finite Element Analyses to Design and Fabricate Three-Dimensional Scaffolds for Skeletal Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 30	5.8	19
439	Increased cell seeding efficiency in bioplotting three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 679-89	4.4	30
438	Collagen modules for in situ delivery of mesenchymal stromal cell-derived endothelial cells for improved angiogenesis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 363-73	4.4	7
437	Osteochondral Regeneration: Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration (Adv. Healthcare Mater. 14/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1832-1832	10.1	4
436	Scalable topographies to support proliferation and Oct4 expression by human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 18948	4.9	48
435	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 5789-99	16.7	45
434	Development of Highly Functional Biomaterials by Decoupling and Recombining Material Properties. <i>Advanced Materials</i> , <b>2016</b> , 28, 1803-8	24	15
433	Micro-aggregates do not influence bone marrow stromal cell chondrogenesis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 1021-1032	4.4	4
432	Influencing chondrogenic differentiation of human mesenchymal stromal cells in scaffolds displaying a structural gradient in pore size. <i>Acta Biomaterialia</i> , <b>2016</b> , 36, 210-9	10.8	71
431	Stimulatory effect of cobalt ions incorporated into calcium phosphate coatings on neovascularization in an in vivo intramuscular model in goats. <i>Acta Biomaterialia</i> , <b>2016</b> , 36, 267-76	10.8	29
430	Combinatorial incorporation of fluoride and cobalt ions into calcium phosphates to stimulate osteogenesis and angiogenesis. <i>Biomedical Materials (Bristol)</i> , <b>2016</b> , 11, 015020	3.5	24
429	Monolithic calcium phosphate/poly(lactic acid) composite versus calcium phosphate-coated poly(lactic acid) for support of osteogenic differentiation of human mesenchymal stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 54	4.5	10
428	Methods of Monitoring Cell Fate and Tissue Growth in Three-Dimensional Scaffold-Based Strategies for In Vitro Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2016</b> , 22, 265-83	7.9	14
427	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. <i>Biofabrication</i> , <b>2016</b> , 8, 015014	10.5	36
426	Surface micropatterning with zirconia and calcium phosphate ceramics by micromoulding in capillaries. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1044-1055	7.3	9
425	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. <i>Biomaterials</i> , <b>2016</b> , 76, 261-72	15.6	24
424	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 336-48	3.9	19
423	Coculturing Human Islets with Proangiogenic Support Cells to Improve Islet Revascularization at the Subcutaneous Transplantation Site. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 375-85	3.9	24

422	Adhesion and proliferation of cells and bacteria on microchip with different surfaces microstructures. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 475-482	1.3	3
421	3D high throughput screening and profiling of embryoid bodies in thermoformed microwell plates. <i>Lab on A Chip</i> , <b>2016</b> , 16, 734-42	7.2	46
420	High-throughput screening approaches and combinatorial development of biomaterials using microfluidics. <i>Acta Biomaterialia</i> , <b>2016</b> , 34, 1-20	10.8	66
419	Spatial distribution and survival of human and goat mesenchymal stromal cells on hydroxyapatite and tricalcium phosphate. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 233-44	4.4	12
418	The Effects of Crystal Phase and Particle Morphology of Calcium Phosphates on Proliferation and Differentiation of Human Mesenchymal Stromal Cells. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1775-85	10.1	16
417	Human mesenchymal stromal cells response to biomimetic octacalcium phosphate containing strontium. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1946-60	5.4	20
416	Biological and Tribological Assessment of Poly(Ethylene Oxide Terephthalate)/Poly(Butylene Terephthalate), Polycaprolactone, and Poly (LDL) Lactic Acid Plotted Scaffolds for Skeletal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 232-43	10.1	8
415	Hybrid Polycaprolactone/Alginate Scaffolds Functionalized with VEGF to Promote de Novo Vessel Formation for the Transplantation of Islets of Langerhans. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1606-16	10.1	41
414	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1753-63	10.1	44
413	Directed Assembly and Development of Material-Free Tissues with Complex Architectures. <i>Advanced Materials</i> , <b>2016</b> , 28, 4032-9	24	40
412	Gradients in pore size enhance the osteogenic differentiation of human mesenchymal stromal cells in three-dimensional scaffolds. <i>Scientific Reports</i> , <b>2016</b> , 6, 22898	4.9	105
411	Mimicking natural cell environments: design, fabrication and application of bio-chemical gradients on polymeric biomaterial substrates. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4244-4257	7.3	35
410	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. <i>Biofabrication</i> , <b>2016</b> , 8, 045007	10.5	47
409	Mold-Based Application of Laser-Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 43-9	5.5	11
408	Back Cover: Macromol. Biosci. 1/2016. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 168-168	5.5	
407	Creeping proteins in microporous structures: polymer brush-assisted fabrication of 3D gradients for tissue engineering. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1169-74	10.1	33
406	Differentiation of mesenchymal stem cells under hypoxia and normoxia: lipid profiles revealed by time-of-flight secondary ion mass spectrometry and multivariate analysis. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3981-8	7.8	18
405	The osteochondral interface as a gradient tissue: from development to the fabrication of gradient scaffolds for regenerative medicine. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , <b>2015</b> , 105, 34-52		81



404	MicroRNA Levels as Prognostic Markers for the Differentiation Potential of Human Mesenchymal Stromal Cell Donors. <i>Stem Cells and Development</i> , <b>2015</b> , 24, 1946-55	4.4	5
403	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. <i>RSC Advances</i> , <b>2015</b> , 5, 54510-54516	3.7	24
402	Differentiation capacity and maintenance of differentiated phenotypes of human mesenchymal stromal cells cultured on two distinct types of 3D polymeric scaffolds. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 1574-86	3.7	6
401	Plug and play: combining materials and technologies to improve bone regenerative strategies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 745-59	4.4	18
400	Monitoring nutrient transport in tissue-engineered grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 952-60	4.4	25
399	Controlled aggregation of primary human pancreatic islet cells leads to glucose-responsive pseudoislets comparable to native islets. <i>Journal of Cellular and Molecular Medicine</i> , <b>2015</b> , 19, 1836-46	5.6	51
398	A combinatorial approach towards the design of nanofibrous scaffolds for chondrogenesis. <i>Scientific Reports</i> , <b>2015</b> , 5, 14804	4.9	25
397	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Data in Brief</i> , <b>2015</b> , 5, 84-94	1.2	1
396	Exploring the Material-Induced Transcriptional Landscape of Osteoblasts on Bone Graft Materials. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1691-700	10.1	10
395	Microporous calcium phosphate ceramics driving osteogenesis through surface architecture. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1188-99	5.4	40
394	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. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 169	5.8	15
393	Fabrication of three-dimensional bioplotting hydrogel scaffolds for islets of Langerhans transplantation. <i>Biofabrication</i> , <b>2015</b> , 7, 025009	10.5	107
392	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Biomaterials</i> , <b>2015</b> , 61, 190-202	15.6	9
391	Analysis of high-throughput screening reveals the effect of surface topographies on cellular morphology. <i>Acta Biomaterialia</i> , <b>2015</b> , 15, 29-38	10.8	51
390	Microfluidic platform with four orthogonal and overlapping gradients for soluble compound screening in regenerative medicine research. <i>Electrophoresis</i> , <b>2015</b> , 36, 475-84	3.6	13
389	Elucidating the individual effects of calcium and phosphate ions on hMSCs by using composite materials. <i>Acta Biomaterialia</i> , <b>2015</b> , 17, 1-15	10.8	44
388	Evaluation of Cartilage Repair by Mesenchymal Stem Cells Seeded on a PEOT/PBT Scaffold in an Osteochondral Defect. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 2069-82	4.7	23
387	High-Throughput Screening Assay for the Identification of Compounds Enhancing Collagenous Extracellular Matrix Production by ATDC5 Cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 726-36	2.9	9

386	Mesenchymal stromal/stem cell-or chondrocyte-seeded microcarriers as building blocks for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2513-23	3.9	34
385	Engineered micro-objects as scaffolding elements in cellular building blocks for bottom-up tissue engineering approaches. <i>Advanced Materials</i> , <b>2014</b> , 26, 2592-9	24	56
384	The size of surface microstructures as an osteogenic factor in calcium phosphate ceramics. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3254-63	10.8	103
383	Microtiter plate-sized standalone chip holder for microenvironmental physiological control in gas-impermeable microfluidic devices. <i>Lab on A Chip</i> , <b>2014</b> , 14, 1816-20	7.2	16
382	On the horizon: instructive nanomaterials hold the potential to mimic tissue complexity. <i>IEEE Pulse</i> , <b>2014</b> , 5, 44-9	0.7	2
381	Metabolic programming of mesenchymal stromal cells by oxygen tension directs chondrogenic cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13954-9	11.5	85
380	A supramolecular host-guest carrier system for growth factors employing V(H)H fragments. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12675-81	16.4	35
379	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. <i>Journal of Controlled Release</i> , <b>2014</b> , 187, 66-73	11.7	56
378	Peptide functionalized polyhydroxyalkanoate nanofibrous scaffolds enhance Schwann cells activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1559-69	6	51
377	Inflammatory response and bone healing capacity of two porous calcium phosphate ceramics in critical size cortical bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 1399-407	5.4	21
376	A biocomposite of collagen nanofibers and nanohydroxyapatite for bone regeneration. <i>Biofabrication</i> , <b>2014</b> , 6, 035015	10.5	43
375	Towards an in vitro model mimicking the foreign body response: tailoring the surface properties of biomaterials to modulate extracellular matrix. <i>Scientific Reports</i> , <b>2014</b> , 4, 6325	4.9	60
374	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. <i>PLoS ONE</i> , <b>2014</b> , 9, e115000	3.7	6
373	Distinct Effect of TCF4 on the NFB Pathway in Human Primary Chondrocytes and the C20/A4 Chondrocyte Cell Line. <i>Cartilage</i> , <b>2014</b> , 5, 181-9	3	3
372	Modeling mechanical signals on the surface of µCT and CAD based rapid prototype scaffold models to predict (early stage) tissue development. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1864-75	4.9	15
371	Suppression of the immune system as a critical step for bone formation from allogeneic osteoprogenitors implanted in rats. <i>Journal of Cellular and Molecular Medicine</i> , <b>2014</b> , 18, 134-42	5.6	20
370	In vitro and in vivo bioactivity assessment of a polylactic acid/hydroxyapatite composite for bone regeneration. <i>Biomatter</i> , <b>2014</b> , 4, e27664		73
369	Development of multilayer constructs for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 8, 106-19	4.4	9



368	Boosting angiogenesis and functional vascularization in injectable dextran-hyaluronic acid hydrogels by endothelial-like mesenchymal stromal cells. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 819-29	3.9	13
367	Bioinformatics-based selection of a model cell type for in vitro biomaterial testing. <i>Biomaterials</i> , <b>2013</b> , 34, 5552-61	15.6	10
366	Regeneration-on-a-chip? The perspectives on use of microfluidics in regenerative medicine. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3512-28	7.2	76
365	Cell sources for articular cartilage repair strategies: shifting from monocultures to cocultures. <i>Tissue Engineering - Part B: Reviews</i> , <b>2013</b> , 19, 31-40	7.9	61
364	Molecular mechanisms of biomaterial-driven osteogenic differentiation in human mesenchymal stromal cells. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 920-31	3.7	76
363	Engineering new bone via a minimally invasive route using human bone marrow-derived stromal cell aggregates, microceramic particles, and human platelet-rich plasma gel. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 340-9	3.9	10
362	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, R126	5.7	51
361	Poly(N-isopropylacrylamide)poly(ferrocenylsilane) dual-responsive hydrogels: synthesis, characterization and antimicrobial applications. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 337-342	4.9	52
360	Effect of antioxidant supplementation on the total yield, oxidative stress levels, and multipotency of bone marrow-derived human mesenchymal stromal cells. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 928-37	3.9	22
359	The homing of bone marrow MSCs to non-osseous sites for ectopic bone formation induced by osteoinductive calcium phosphate. <i>Biomaterials</i> , <b>2013</b> , 34, 2167-76	15.6	83
358	A clinical feasibility study to evaluate the safety and efficacy of PEOT/PBT implants for human donor site filling during mosaicplasty. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , <b>2013</b> , 23, 81-91	2.2	16
357	A modular versatile chip carrier for high-throughput screening of cell-biomaterial interactions. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20120753	4.1	5
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