

Maria Ann Woodruff

List of Publications by Year in descending order

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132
papers

8,870
citations

94269

37
h-index

43802

91
g-index

139
all docs

139
docs citations

139
times ranked

12509
citing authors

#	ARTICLE	IF	CITATIONS
1	Personalized Offloading Treatments for Healing Plantar Diabetic Foot Ulcers. Journal of Diabetes Science and Technology, 2023, 17, 99-106.	1.3	4
2	Capturing patient anatomy for designing and manufacturing personalized prostheses. Current Opinion in Biotechnology, 2022, 73, 282-289.	3.3	10
3	Ultrasound Imaging Offers Promising Alternative to Create 3-D Models for Personalised Auricular Implants. Ultrasound in Medicine and Biology, 2022, 48, 450-459.	0.7	2
4	Mechanical behaviour of flexible 3D printed gyroid structures as a tuneable replacement for soft padding foam. Additive Manufacturing, 2022, 50, 102555.	1.7	8
5	Development of 3D Printed Biodegradable Mesh with Antimicrobial Properties for Pelvic Organ Prolapse. Polymers, 2022, 14, 763.	2.0	10
6	Dissolvable 3D printed PVA moulds for melt electrowriting tubular scaffolds with patient-specific geometry. Materials and Design, 2022, 215, 110466.	3.3	11
7	Image analyses for engineering advanced tissue biomanufacturing processes. Biomaterials, 2022, 284, 121514.	5.7	7
8	Melt electro-written scaffolds with box-architecture support orthogonally oriented collagen. Biofabrication, 2022, 14, 015015.	3.7	8
9	In vitro and in vivo investigation of a zonal microstructured scaffold for osteochondral defect repair. Biomaterials, 2022, 286, 121548.	5.7	19
10	Inexpensive 3D Printed Trainer for Combined Retrograde Intrarenal Surgery and Percutaneous Nephrolithotomy. Videourology (New Rochelle, N Y), 2022, 36, .	0.1	0
11	3D Plotting of Calcium Phosphate Cement and Melt Electrowriting of Polycaprolactone Microfibers in One Scaffold: A Hybrid Additive Manufacturing Process. Journal of Functional Biomaterials, 2022, 13, 75.	1.8	8
12	Laser Sintering Approaches for Bone Tissue Engineering. Polymers, 2022, 14, 2336.	2.0	7
13	Exploiting Nonlinear Fiber Patterning to Control Tubular Scaffold Mechanical Behavior. Advanced Materials Technologies, 2022, 7, .	3.0	11
14	Personalized Volumetric Tissue Generation by Enhancing Multiscale Mass Transport through 3D Printed Scaffolds in Perfused Bioreactors. Advanced Healthcare Materials, 2022, 11, .	3.9	5
15	Enzymeâ€Degradable 3D Multiâ€Material Microstructures. Advanced Functional Materials, 2021, 31, 2006998.	7.8	11
16	Using bespoke 3D-printed models to improve patient understanding of an encrusted ureteric stent. Journal of Clinical Urology, 2021, 14, 137-139.	0.1	4
17	Bactericidal efficiency of micro- and nanostructured surfaces: a critical perspective. RSC Advances, 2021, 11, 1883-1900.	1.7	19
18	Systematic design of an advanced open-source 3D bioprinter for extrusion and electrohydrodynamic-based processes. International Journal of Advanced Manufacturing Technology, 2021, 113, 2539-2554.	1.5	13

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19	Rapid Segmentation of Renal Tumours to Calculate Volume Using 3D Interpolation. <i>Journal of Digital Imaging</i> , 2021, 34, 351-356.	1.6	2
20	Additive manufacturing enables personalised porous high-density polyethylene surgical implant manufacturing with improved tissue and vascular ingrowth. <i>Applied Materials Today</i> , 2021, 22, 100965.	2.3	10
21	3D Printing Improved Testicular Prostheses: Using Lattice Infill Structure to Modify Mechanical Properties. <i>Frontiers in Surgery</i> , 2021, 8, 626143.	0.6	2
22	Transform the uniform: designing fashion for the hospital of the future. <i>International Journal of Fashion Design, Technology and Education</i> , 2021, 14, 232-242.	0.9	2
23	Detection of clustered anomalies in single-voxel morphometry as a rapid automated method for identifying intracranial aneurysms. <i>Computerized Medical Imaging and Graphics</i> , 2021, 89, 101888.	3.5	6
24	Evaluating the safety and effectiveness of novel personal protective equipment during the COVID-19 pandemic. <i>Medical Journal of Australia</i> , 2021, 214, 496.	0.8	2
25	Frugal 3D scanning using smartphones provides an accessible framework for capturing the external ear. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2021, 74, 3066-3072.	0.5	8
26	Expanding material printability for electrowriting. <i>Journal of 3D Printing in Medicine</i> , 2021, 5, 61-64.	1.0	1
27	Using melt-electrowritten microfibrils for tailoring scaffold mechanics of 3D bioprinted chondrocyte-laden constructs. <i>Bioprinting</i> , 2021, 23, e00158.	2.9	7
28	A quantitative analysis of cell bridging kinetics on a scaffold using computer vision algorithms. <i>Acta Biomaterialia</i> , 2021, 136, 429-440.	4.1	8
29	Model-based data analysis of tissue growth in thin 3D printed scaffolds. <i>Journal of Theoretical Biology</i> , 2021, 528, 110852.	0.8	23
30	Novel resin tissue array system reduces sample preparation time, labour and reagent costs in bone tissue histology. <i>Bone</i> , 2021, 153, 116155.	1.4	2
31	Scaffold-guided bone regeneration in large volume tibial segmental defects. <i>Bone</i> , 2021, 153, 116163.	1.4	29
32	A Protocol for Clinically Accessible Three-Dimensional Ear Scanning Using Smartphones. <i>Plastic and Reconstructive Surgery</i> , 2021, 148, 863e-865e.	0.7	1
33	Poly- μ -Caprolactone/Fibrin-Alginate Scaffold: A New Pro-Angiogenic Composite Biomaterial for the Treatment of Bone Defects. <i>Polymers</i> , 2021, 13, 3399.	2.0	10
34	Degradation of Melt Electrowritten PCL Scaffolds Following Melt Processing and Plasma Surface Treatment. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100433.	2.0	7
35	Highly substituted calcium silicates 3D printed with complex architectures to produce stiff, strong and bioactive scaffolds for bone regeneration. <i>Applied Materials Today</i> , 2021, 25, 101230.	2.3	12
36	Current applications of three-dimensional printing in urology. <i>BJU International</i> , 2020, 125, 17-27.	1.3	44

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37	Development of Mechanically Enhanced Polycaprolactone Composites by a Functionalized Titanate Nanofiller for Melt Electrowriting in 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47993-48006.	4.0	20
38	Cell proliferation and migration explain pore bridging dynamics in 3D printed scaffolds of different pore size. <i>Acta Biomaterialia</i> , 2020, 114, 285-295.	4.1	61
39	An advanced prosthetic manufacturing framework for economic personalised ear prostheses. <i>Scientific Reports</i> , 2020, 10, 11453.	1.6	12
40	Guidelines for establishing a 3-D printing biofabrication laboratory. <i>Biotechnology Advances</i> , 2020, 45, 107652.	6.0	11
41	A Method for Economical Smartphone-Based Clinical 3D Facial Scanning. <i>Journal of Prosthodontics</i> , 2020, 29, 818-825.	1.7	18
42	Variability in accuracy of prostate cancer segmentation among radiologists, urologists, and scientists. <i>Cancer Medicine</i> , 2020, 9, 7172-7182.	1.3	16
43	Past, Present, and Future of Soft-Tissue Prosthetics: Advanced Polymers and Advanced Manufacturing. <i>Advanced Materials</i> , 2020, 32, e2001122.	11.1	32
44	Auxetic tubular scaffolds via melt electrowriting. <i>Materials and Design</i> , 2020, 193, 108787.	3.3	36
45	Multi-colour extrusion fused deposition modelling: a low-cost 3D printing method for anatomical prostate cancer models. <i>Scientific Reports</i> , 2020, 10, 10004.	1.6	30
46	Design of an Open-Source, Low-Cost Bioink and Food Melt Extrusion 3D Printer. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	2
47	Effect of Gate Conductance on Hygroscopic Insulator Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901079.	2.6	8
48	Three-dimensional printing versus conventional machining in the creation of a meatal urethral dilator: development and mechanical testing. <i>BioMedical Engineering OnLine</i> , 2020, 19, 55.	1.3	7
49	A preclinical large-animal model for the assessment of critical-size load-bearing bone defect reconstruction. <i>Nature Protocols</i> , 2020, 15, 877-924.	5.5	75
50	Pre-screening the intrinsic angiogenic capacity of biomaterials in an optimised <i>ex ovo</i> chorioallantoic membrane model. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142090162.	2.3	23
51	Augmented and Virtual Reality in Surgery. <i>Computing in Science and Engineering</i> , 2020, 22, 18-26.	1.2	48
52	Design tools for patient specific and highly controlled melt electrowritten scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103695.	1.5	39
53	Advancements in Soft-Tissue Prosthetics Part B: The Chemistry of Imitating Life. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 147.	2.0	12
54	Characterisation and evaluation of the regenerative capacity of Stro-4+ enriched bone marrow mesenchymal stromal cells using bovine extracellular matrix hydrogel and a novel biocompatible melt electro-written medical-grade polycaprolactone scaffold. <i>Biomaterials</i> , 2020, 247, 119998.	5.7	29

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55	Advancements in Soft-Tissue Prosthetics Part A: The Art of Imitating Life. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 121.	2.0	16
56	Bone morphogenetic protein–assisted bone regeneration and applications in biofabrication. , 2020, , 363-391.		2
57	Polymer-based composites for musculoskeletal regenerative medicine. , 2020, , 33-82.		2
58	Spectral changes associated with transmission of OLED emission through human skin. <i>Scientific Reports</i> , 2019, 9, 9875.	1.6	11
59	Investigation of Sustained BMP Delivery in the Prevention of Medication–Related Osteonecrosis of the Jaw (MRONJ) in a Rat Model. <i>Macromolecular Bioscience</i> , 2019, 19, e1900226.	2.1	16
60	Tissue Morphology and Antigenicity in Mouse and Rat Tibia: Comparing 12 Different Decalcification Conditions. <i>Journal of Histochemistry and Cytochemistry</i> , 2019, 67, 545-561.	1.3	16
61	Biomedical applications of polyethylene. <i>European Polymer Journal</i> , 2019, 118, 412-428.	2.6	107
62	A highly porous and conductive composite gate electrode for OTFT sensors. <i>RSC Advances</i> , 2019, 9, 7278-7284.	1.7	8
63	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium–Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900019.	2.0	38
64	Biofabrication of personalised anatomical models and tools for the clinic. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 161-162.	0.3	3
65	Histomorphometric Evaluation of Critical-Sized Bone Defects Using Osteomeasure and Aperio Image Analysis Systems. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 732-741.	1.1	8
66	3D Printing Chocolate. , 2019, , 151-173.		15
67	Melt Electrospun Bilayered Scaffolds for Tissue Integration of a Suture–Less Inflow Cannula for Rotary Blood Pumps. <i>Artificial Organs</i> , 2018, 42, E43-E54.	1.0	7
68	Aesthetic reconstruction of microtia: a review of current techniques and new 3D printing approaches. <i>Virtual and Physical Prototyping</i> , 2018, 13, 117-130.	5.3	22
69	Facile and Dynamic Color-Tuning Approach for Organic Light-Emitting Diodes Using Anisotropic Filters. <i>ACS Photonics</i> , 2018, 5, 2760-2766.	3.2	3
70	Electrofluidodynamic technologies for biomaterials and medical devices. , 2018, , 37-69.		14
71	Comparison of three-dimensional surface scanning techniques for capturing the external ear. <i>Virtual and Physical Prototyping</i> , 2018, 13, 255-265.	5.3	25
72	Smartphones for frugal three-dimensional scanning of the external ear with application to microtia–. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2018, 71, 1362-1380.	0.5	8

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73	Scaffold-cell bone engineering in a validated preclinical animal model: precursors vs differentiated cell source. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2081-2089.	1.3	39
74	Comparison of Different Decalcification Methods Using Rat Mandibles as a Model. <i>Journal of Histochemistry and Cytochemistry</i> , 2017, 65, 705-722.	1.3	61
75	3D printing complex chocolate objects: Platform design, optimization and evaluation. <i>Journal of Food Engineering</i> , 2017, 215, 13-22.	2.7	157
76	Characterization of Normal Murine Carpal Bone Development Prompts Re-Evaluation of Pathologic Osteolysis as the Cause of Human Carpal-Tarsal Osteolysis Disorders. <i>American Journal of Pathology</i> , 2017, 187, 1923-1934.	1.9	11
77	Challenges in engineering large customized bone constructs. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1129-1139.	1.7	49
78	Effects of Topical Icing on Inflammation, Angiogenesis, Revascularization, and Myofiber Regeneration in Skeletal Muscle Following Contusion Injury. <i>Frontiers in Physiology</i> , 2017, 8, 93.	1.3	46
79	Everyday Creative Uses of Smartphone Images in Biomedical Engineering Laboratories. <i>Lecture Notes in Computer Science</i> , 2017, , 335-343.	1.0	0
80	Microparticles for Sustained Growth Factor Delivery in the Regeneration of Critically-Sized Segmental Tibial Bone Defects. <i>Materials</i> , 2016, 9, 259.	1.3	25
81	A Hydrogel Model Incorporating 3D-Plotted Hydroxyapatite for Osteochondral Tissue Engineering. <i>Materials</i> , 2016, 9, 285.	1.3	29
82	Numerical prediction of thrombus risk in an anatomically dilated left ventricle: the effect of inflow cannula designs. <i>BioMedical Engineering OnLine</i> , 2016, 15, 136.	1.3	21
83	Effect of humidity on melt electrospun polycaprolactone scaffolds. <i>BioNanoMaterials</i> , 2016, 17, .	1.4	2
84	Critical Sized Mandibular Defect Regeneration in Preclinical In Vivo Models. <i>Current Molecular Biology Reports</i> , 2016, 2, 83-89.	0.8	20
85	Biofabrication: The Future of Regenerative Medicine. <i>Techniques in Orthopaedics</i> , 2016, 31, 190-203.	0.1	24
86	Data for accelerated degradation of calcium phosphate surface-coated polycaprolactone and polycaprolactone/bioactive glass composite scaffolds. <i>Data in Brief</i> , 2016, 7, 923-926.	0.5	7
87	In vitro and in vivo bone formation potential of surface calcium phosphate-coated polycaprolactone and polycaprolactone/bioactive glass composite scaffolds. <i>Acta Biomaterialia</i> , 2016, 30, 319-333.	4.1	137
88	Growth Factor-Loaded Microparticles for Tissue Engineering: The Discrepancies of In Vitro Characterization Assays. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 142-154.	1.1	8
89	Delayed Minimally Invasive Injection of Allogenic Bone Marrow Stromal Cell Sheets Regenerates Large Bone Defects in an Ovine Preclinical Animal Model. <i>Stem Cells Translational Medicine</i> , 2015, 4, 503-512.	1.6	61
90	An Assessment of Cell Culture Plate Surface Chemistry for in Vitro Studies of Tissue Engineering Scaffolds. <i>Journal of Functional Biomaterials</i> , 2015, 6, 1054-1063.	1.8	7

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91	Tailoring Hydrogel Viscoelasticity with Physical and Chemical Crosslinking. <i>Polymers</i> , 2015, 7, 2650-2669.	2.0	56
92	Estrogen Deficiency-Associated Bone Loss in the Maxilla: A Methodology to Quantify the Changes in the Maxillary Intra-radicular Alveolar Bone in an Ovariectomized Rat Osteoporosis Model. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 458-466.	1.1	23
93	Improved fabrication of melt electrospun tissue engineering scaffolds using direct writing and advanced electric field control. <i>Biointerphases</i> , 2015, 10, 011006.	0.6	67
94	Protective effects of reactive functional groups on chondrocytes in photocrosslinkable hydrogel systems. <i>Acta Biomaterialia</i> , 2015, 27, 66-76.	4.1	51
95	Characterization of the Microarchitecture of Direct Writing Melt Electrospun Tissue Engineering Scaffolds Using Diffusion Tensor and Computed Tomography Microimaging. <i>3D Printing and Additive Manufacturing</i> , 2014, 1, 95-103.	1.4	7
96	Effects of scaffold architecture on mechanical characteristics and osteoblast response to static and perfusion bioreactor cultures. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1440-1451.	1.7	56
97	Composites for Delivery of Therapeutics: Combining Melt Electrospun Scaffolds with Loaded Electrospayed Microparticles. <i>Macromolecular Bioscience</i> , 2014, 14, 202-214.	2.1	27
98	Melt-electrospun polycaprolactone strontium-substituted bioactive glass scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3140-3153.	2.1	77
99	Controlling microencapsulation and release of micronized proteins using poly(ethylene glycol) and electro spraying. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 366-377.	2.0	39
100	Effects of scaffold architecture on cranial bone healing. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2014, 43, 506-513.	0.7	72
101	A collagen network phase improves cell seeding of open-pore structure scaffolds under perfusion. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 183-191.	1.3	26
102	Autologous vs. allogenic mesenchymal progenitor cells for the reconstruction of critical sized segmental tibial bone defects in aged sheep. <i>Acta Biomaterialia</i> , 2013, 9, 7874-7884.	4.1	90
103	Fabrication and <i>in vitro</i> characterization of bioactive glass composite scaffolds for bone regeneration. <i>Biofabrication</i> , 2013, 5, 045005.	3.7	81
104	Nano-to Macroscale Remodeling of Functional Tissue-Engineered Bone. <i>Advanced Healthcare Materials</i> , 2013, 2, 546-551.	3.9	17
105	Bone Regeneration Based on Tissue Engineering Conceptions – A 21st Century Perspective. <i>Bone Research</i> , 2013, 1, 216-248.	5.4	625
106	Melt-electrospun polycaprolactone-strontium substituted bioactive glass scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 102, n/a-n/a.	2.1	2
107	A Tissue Engineering Solution for Segmental Defect Regeneration in Load-Bearing Long Bones. <i>Science Translational Medicine</i> , 2012, 4, 141ra93.	5.8	301
108	Electrospraying of polymers with therapeutic molecules: State of the art. <i>Progress in Polymer Science</i> , 2012, 37, 1510-1551.	11.8	363

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109	Bone tissue engineering: from bench to bedside. <i>Materials Today</i> , 2012, 15, 430-435.	8.3	144
110	Scaffolds for Growth Factor Delivery as Applied to Bone Tissue Engineering. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-25.	1.2	73
111	Biomimetic tubular nanofiber mesh and platelet rich plasma-mediated delivery of BMP-7 for large bone defect regeneration. <i>Cell and Tissue Research</i> , 2012, 347, 603-612.	1.5	74
112	Differentiation potential of mesenchymal progenitor cells following transplantation into calvarial defects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 11, 132-142.	1.5	16
113	Direct Fabrication as a Patient-Targeted Therapeutic in a Clinical Environment. <i>Methods in Molecular Biology</i> , 2012, 868, 327-340.	0.4	4
114	Cell sourcing for bone tissue engineering: Amniotic fluid stem cells have a delayed, robust differentiation compared to mesenchymal stem cells. <i>Stem Cell Research</i> , 2011, 7, 17-27.	0.3	45
115	Myocyte Enhancer Factor 2C, an Osteoblast Transcription Factor Identified by Dimethyl Sulfoxide (DMSO)-enhanced Mineralization. <i>Journal of Biological Chemistry</i> , 2011, 286, 30071-30086.	1.6	38
116	PLGA-Based Microparticles for the Sustained Release of BMP-2. <i>Polymers</i> , 2011, 3, 571-586.	2.0	59
117	Electrospraying, a Reproducible Method for Production of Polymeric Microspheres for Biomedical Applications. <i>Polymers</i> , 2011, 3, 131-149.	2.0	262
118	The return of a forgotten polymer—Polycaprolactone in the 21st century. <i>Progress in Polymer Science</i> , 2010, 35, 1217-1256.	11.8	3,051
119	The effect of unlocking RGD-motifs in collagen I on pre-osteoblast adhesion and differentiation. <i>Biomaterials</i> , 2010, 31, 2827-2835.	5.7	121
120	Ovine bone- and marrow-derived progenitor cells and their potential for scaffold-based bone tissue engineering applications <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 565-576.	1.3	38
121	Evaluation of polycaprolactone scaffold degradation for 6 months <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 906-919.	2.1	455
122	The stimulation of healing within a rat calvarial defect by mPCL—TCP/collagen scaffolds loaded with rhBMP-2. <i>Biomaterials</i> , 2009, 30, 2479-2488.	5.7	190
123	Porcine bone marrow stromal cell differentiation on heparin-adsorbed poly(<i>ε</i> -caprolactone)—tricalcium phosphate—collagen scaffolds. <i>Acta Biomaterialia</i> , 2009, 5, 3305-3315.	4.1	14
124	Heparan Sulfate Mediates the Proliferation and Differentiation of Rat Mesenchymal Stem Cells. <i>Stem Cells and Development</i> , 2009, 18, 661-670.	1.1	84
125	Osteogenic and Adipogenic Induction Potential of Human Periodontal Cells. <i>Journal of Periodontology</i> , 2008, 79, 525-534.	1.7	43
126	The Osteogenic Differentiation of Adipose Tissue-Derived Precursor Cells in a 3D Scaffold/Matrix Environment. <i>Current Drug Discovery Technologies</i> , 2008, 5, 319-327.	0.6	33

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127	Design, Fabrication, and Characterization of Scaffolds via Solid Free-Form Fabrication Techniques. , 2008, , 45-67.		1
128	Combined marrow stromal cell-sheet techniques and high-strength biodegradable composite scaffolds for engineered functional bone grafts. Biomaterials, 2007, 28, 814-824.	5.7	193
129	Engineering tubular bone constructs. Journal of Biomechanics, 2007, 40, S73-S79.	0.9	27
130	Sustained release and osteogenic potential of heparan sulfate-doped fibrin glue scaffolds within a rat cranial model. Journal of Molecular Histology, 2007, 38, 425-433.	1.0	40
131	Human osteoblast cell spreading and vinculin expression upon biomaterial surfaces. Journal of Molecular Histology, 2007, 38, 491-499.	1.0	26
132	A Quantitative Analysis of Cell Bridging Kinetics on a Scaffold Using Computer Vision Algorithms. SSRN Electronic Journal, 0, , .	0.4	0