Benjamin M Wu

List of Publications by Year
in descending order

211 papers	14,337 citations	26610 56 h-index	22147 113 g-index
215 all docs	215 docs citations	215 times ranked	17369 citing authors

#	Article	IF	Citations
1	Functionalizing Fibrin Hydrogels with Thermally Responsive Oligonucleotide Tethers for On-Demand Delivery. Bioengineering, 2022, 9, 25.	1.6	4
2	Znâ€“Mgâ€“WC Nanocomposites for Bioresorbable Cardiovascular Stents: Microstructure, Mechanical Properties, Fatigue, Shelf Life, and Corrosion. ACS Biomaterials Science and Engineering, 2022, 8, 328-339.	2.6	14
3	Experimental study on novel biodegradable <scp>Zn</scp>â€“<scp>Fe</scp>â€“<scp>Si</scp> alloys. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 2266-2275.	1.6	5
4	Genetic and pharmacologic suppression of PPARÎ³ enhances NELL-1-stimulated bone regeneration. Biomaterials, 2022, , 121609.	5.7	1
5	Trb3 controls mesenchymal stem cell lineage fate and enhances bone regeneration by scaffold-mediated local gene delivery. Biomaterials, 2021, 264, 120445.	5.7	24
6	On-demand nanozyme signal enhancement at the push of a button for the improved detection of SARS-CoV-2 nucleocapsid protein in serum. Analyst, The, 2021, 146, 7386-7393.	1.7	14
7	Evaluation of a shape memory implant abutment system: An up to 6-month pilot clinical study. Journal of Prosthetic Dentistry, 2020, 123, 257-263.	1.1	7
8	Digital workflow for predictable immediate loading in the mandible by using a shape memory dental implant abutment system: A clinical report. Journal of Prosthetic Dentistry, 2020, 123, 1-5.	1.1	8
9	Novel zinc/tungsten carbide nanocomposite as bioabsorbable implant. Materials Letters, 2020, 263, 127282.	1.3	16
10	Treating an edentulous mandible with an implant-supported prosthesis with a shape-memory alloy abutment system. Journal of Prosthetic Dentistry, 2020, 123, 775-780.	1.1	3
11	Evaluation of the wear and retention performance of a shape-memory alloy abutment system after 6 months of clinical use. Journal of Prosthetic Dentistry, 2020, 124, 189-194.	1.1	0
12	Fabrication and characterization of bioresorbable zinc/WC nanocomposite springs for short bowel syndrome treatment. Materials Letters, 2020, 280, 128577.	1.3	2
13	Changes in mechanical properties, surface morphology, structure, and composition of Invisalign material in the oral environment. American Journal of Orthodontics and Dentofacial Orthopedics, 2020, 157, 745-753.	0.8	23
14	Highly Ductile Zn-2Fe-WC Nanocomposite as Biodegradable Material. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4406-4413.	1.1	16
15	Microporous methacrylated glycol chitosan-montmorillonite nanocomposite hydrogel for bone tissue engineering. Nature Communications, 2019, 10, 3523.	5.8	273
16	Controlling Macroscopic Phase Separation of Aqueous Two-Phase Polymer Systems in Porous Media. SLAS Technology, 2019, 24, 515-526.	1.0	2
17	Automation of Biomarker Preconcentration, Capture, and Nanozyme Signal Enhancement on Paper-Based Devices. Analytical Chemistry, 2019, 91, 12046-12054.	3.2	20
18	Shape-Memory Retained Complete Arch Guided Implant Treatment Using Nitinol (Smileloc) Abutments. Oral and Maxillofacial Surgery Clinics of North America, 2019, 31, 427-435.	0.4	7

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19	Harnessing the versatility of PLGA nanoparticles for targeted Cre-mediated recombination. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 19, 106-114.	1.7	6
20	A Nitrogen- and Self-Doped Titania Coating Enables the On-Demand Release of Free Radical Species. ACS Omega, 2019, 4, 18567-18573.	1.6	2
21	Deep, sub-wavelength acoustic patterning of complex and non-periodic shapes on soft membranes supported by air cavities. Lab on A Chip, 2019, 19, 3714-3725.	3.1	19
22	Preparation of photothermal palmitic acid/cholesterol liposomes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1384-1392.	1.6	6
23	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cellâ€“Biomaterials Crosstalk. Advanced Materials, 2018, 30, e1706780.	11.1	22
24	Effects of an etching solution on the adhesive properties and surface microhardness of zirconia dental ceramics. Journal of Prosthetic Dentistry, 2018, 120, 447-453.	1.1	8
25	Using an Engineered Galvanic Redox System to Generate Positive Surface Potentials that Promote Osteogenic Functions. ACS Applied Materials & Interfaces, 2018, 10, 15449-15460.	4.0	14
26	The Effects of Systemic Therapy of PEGylated NEL-Like Protein 1 (NELL-1) on Fracture Healing in Mice. American Journal of Pathology, 2018, 188, 715-727.	1.9	11
27	Photocurable poly(ethylene glycol) as a bioink for the inkjet 3D pharming of hydrophobic drugs. International Journal of Pharmaceutics, 2018, 546, 145-153.	2.6	41
28	MAPK signaling has stage-dependent osteogenic effects on human adipose-derived stem cells in vitro. Connective Tissue Research, 2018, 59, 129-146.	1.1	16
29	Use of a Novel Polymer in an Animal Model of Head and Neck Squamous Cell Carcinoma. Otolaryngology - Head and Neck Surgery, 2018, 158, 110-117.	1.1	6
30	Calcium Phosphate Microspheres as a Delivery Vehicle for Tooth-Bleaching Agents. Journal of Dental Research, 2018, 97, 283-288.	2.5	9
31	Photocurable Bioinks for the 3D Pharming of Combination Therapies. Polymers, 2018, 10, 1372.	2.0	23
32	Bioengineering functional smooth muscle with spontaneous rhythmic contraction in vitro. Scientific Reports, 2018, 8, 13544.	1.6	18
33	Ionic Liquid Aqueous Two-Phase Systems for the Enhanced Paper-Based Detection of Transferrin and Escherichia coli. Frontiers in Chemistry, 2018, 6, 486.	1.8	10
34	Rapid fabrication of multifunctional microcapillary for four-dimensional single cell manipulation. , 2018, , .		1
35	An evolution during a century of leadership, scholarship, mentorship, and fellowship. Journal of Prosthetic Dentistry, 2018, 119, 865-866.	1.1	0
36	Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis. PLoS ONE, 2018, 13, e0200529.	1.1	4

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37	Liquid Metalâ€Based Multifunctional Micropipette for 4D Single Cell Manipulation. Advanced Science, 2018, 5, 1700711.	5.6	25
38	Keratinocyte Migration in a Three-Dimensional In Vitro Wound Healing Model Co-Cultured with Fibroblasts. Tissue Engineering and Regenerative Medicine, 2018, 15, 721-733.	1.6	24
39	A one-pot, isothermal DNA sample preparation and amplification platform utilizing aqueous two-phase systems. Analytical and Bioanalytical Chemistry, 2018, 410, 5255-5263.	1.9	14
40	Photopolymerizable chitosan-collagen hydrogels for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 164-174.	1.3	103
41	Biological and mechanical characterization of chitosanâ€alginate scaffolds for growth factor delivery and chondrogenesis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 272-282.	1.6	36
42	Recent advances in light-responsive on-demand drug-delivery systems. Therapeutic Delivery, 2017, 8, 89-107.	1.2	168
43	Simultaneous delivery of hydrophobic small molecules and siRNA using Sterosomes to direct mesenchymal stem cell differentiation for bone repair. Acta Biomaterialia, 2017, 58, 214-224.	4.1	48
44	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontistâ€™s point of view. Journal of Prosthetic Dentistry, 2017, 118, 455-461.	1.1	27
45	Human Periodontal Ligamentâ€and Gingivaâ€derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. Advanced Healthcare Materials, 2017, 6, 1700670.	3.9	59
46	Alginate/hyaluronic acid hydrogel delivery system characteristics regulate the differentiation of periodontal ligament stem cells toward chondrogenic lineage. Journal of Materials Science: Materials in Medicine, 2017, 28, 162.	1.7	47
47	Small molecule-mediated tribbles homolog 3 promotes bone formation induced by bone morphogenetic protein-2. Scientific Reports, 2017, 7, 7518.	1.6	16
48	Improved lateral-flow immunoassays for chlamydia and immunoglobulin M by sequential rehydration of two-phase system components within a paper-based diagnostic. Mikrochimica Acta, 2017, 184, 4055-4064.	2.5	13
49	Design and Characterization of a Therapeutic Non-phospholipid Liposomal Nanocarrier with Osteoinductive Characteristics To Promote Bone Formation. ACS Nano, 2017, 11, 8055-8063.	7.3	42
50	Regulation of the fate of dentalâ€derived mesenchymal stem cells using engineered alginateâ€GelMA hydrogels. Journal of Biomedical Materials Research - Part A, 2017, 105, 2957-2967.	2.1	47
51	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. Acta Biomaterialia, 2017, 60, 181-189.	4.1	49
52	Enhanced Mandibular Bone Repair by Combined Treatment of Bone Morphogenetic Protein 2 and Small-Molecule Phenamil. Tissue Engineering - Part A, 2017, 23, 195-207.	1.6	23
53	Clinical application of a shape memory implant abutment system. Journal of Prosthetic Dentistry, 2017, 117, 8-12.	1.1	16
54	Hydrogels in craniofacial tissue engineering. , 2017, , 47-64.		7

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55	Photocurable Bioink for the Inkjet 3D Pharming of Hydrophilic Drugs. Bioengineering, 2017, 4, 11.	1.6	37
56	Vertebral Implantation of NELL-1 Enhances Bone Formation in an Osteoporotic Sheep Model. Tissue Engineering - Part A, 2016, 22, 840-849.	1.6	20
57	Use of ultra-high molecular weight polycaprolactone scaffolds for ACL reconstruction. Journal of Orthopaedic Research, 2016, 34, 828-835.	1.2	16
58	Efficacy of Intraperitoneal Administration of PEGylated NELL-1 for Bone Formation. BioResearch Open Access, 2016, 5, 159-170.	2.6	7
59	Mechanical lengthening in multiple intestinal segments in-series. Journal of Pediatric Surgery, 2016, 51, 957-959.	0.8	15
60	Spring-mediated distraction enterogenesis in-continuity. Journal of Pediatric Surgery, 2016, 51, 1983-1987.	0.8	25
61	Scalability of an endoluminal spring for distraction enterogenesis. Journal of Pediatric Surgery, 2016, 51, 1988-1992.	0.8	20
62	Mesenchymal stem cell growth on and mechanical properties of fibrin-based biomimetic bone scaffolds. Journal of Biomedical Materials Research - Part A, 2016, 104, 2945-2953.	2.1	27
63	Vertical scanning interferometry: A new method to quantify re-/de-mineralization dynamics of dental enamel. Dental Materials, 2016, 32, e251-e261.	1.6	10
64	Controlled release of NELL-1 protein from chitosan/hydroxyapatite-modified TCP particles. International Journal of Pharmaceutics, 2016, 511, 79-89.	2.6	9
65	Development of quantitative radioactive methodologies on paper to determine important lateral-flow immunoassay parameters. Lab on A Chip, 2016, 16, 2871-2881.	3.1	19
66	Basic fibroblast growth factor eluting microspheres enhance distraction enterogenesis. Journal of Pediatric Surgery, 2016, 51, 960-965.	0.8	6
67	Hypoxic culture conditions induce increased metabolic rate and collagen gene expression in ACLâ€derived cells. Journal of Orthopaedic Research, 2016, 34, 985-994.	1.2	10
68	Fibromodulin reprogrammed cells: A novel cell source for bone regeneration. Biomaterials, 2016, 83, 194-206.	5.7	29
69	Enhanced Osteogenesis of Adipose-Derived Stem Cells by Regulating Bone Morphogenetic Protein Signaling Antagonists and Agonists. Stem Cells Translational Medicine, 2016, 5, 539-551.	1.6	39
70	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. Annals of Biomedical Engineering, 2016, 44, 1908-1920.	1.3	71
71	Macro- and micro-designed chitosan-alginate scaffold architecture by three-dimensional printing and directional freezing. Biofabrication, 2016, 8, 015003.	3.7	64
72	Wide-field Raman imaging for bone detection in tissue. Biomedical Optics Express, 2015, 6, 3892.	1.5	20

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73	Improved resolution of 3D printed scaffolds by shrinking. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1415-1423.	1.6	4
74	Brief Report: Human Perivascular Stem Cells andNel-Like Protein-1 Synergistically Enhance Spinal Fusion in Osteoporotic Rats. Stem Cells, 2015, 33, 3158-3163.	1.4	44
75	An Aqueous Two-Phase System for the Concentration and Extraction of Proteins from the Interface for Detection Using the Lateral-Flow Immunoassay. PLoS ONE, 2015, 10, e0142654.	1.1	17
76	Effects of Computer-Aided Manufacturing Technology on Precision of Clinical Metal-Free Restorations. BioMed Research International, 2015, 2015, 1-5.	0.9	13
77	Delivery of Phenamil Enhances BMP-2-Induced Osteogenic Differentiation of Adipose-Derived Stem Cells and Bone Formation in Calvarial Defects. Tissue Engineering - Part A, 2015, 21, 2053-2065.	1.6	49
78	Single-step, paper-based concentration and detection of a malaria biomarker. Analytica Chimica Acta, 2015, 882, 83-89.	2.6	44
79	Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. Biomaterials, 2015, 61, 75-84.	5.7	37
80	Evaluation of Polycaprolactone Scaffold with Basic Fibroblast Growth Factor and Fibroblasts in an Athymic Rat Model for Anterior Cruciate Ligament Reconstruction. Tissue Engineering - Part A, 2015, 21, 1859-1868.	1.6	42
81	In Vivo Evaluation of Electrospun Polycaprolactone Graft for Anterior Cruciate Ligament Engineering. Tissue Engineering - Part A, 2015, 21, 1228-1236.	1.6	49
82	High-resolution direct 3D printed PLGA scaffolds: print and shrink. Biofabrication, 2015, 7, 015002.	3.7	34
83	In vitro and in vivo evaluation of heparin mediated growth factor release from tissueâ€engineered constructs for anterior cruciate ligament reconstruction. Journal of Orthopaedic Research, 2015, 33, 229-236.	1.2	34
84	Repeated Mechanical Lengthening of Intestinal Segments in a Novel Model. Journal of Pediatric Surgery, 2015, 50, 954-957.	0.8	21
85	Glutamine-chitosan modified calcium phosphate nanoparticles for efficient siRNA delivery and osteogenic differentiation. Journal of Materials Chemistry B, 2015, 3, 6448-6455.	2.9	49
86	Pharmacokinetics and osteogenic potential of PEGylated NELL-1 inÂvivo after systemic administration. Biomaterials, 2015, 57, 73-83.	5.7	12
87	Recent advances in 3D printing of biomaterials. Journal of Biological Engineering, 2015, 9, 4.	2.0	1,266
88	A novel method of esophageal lengthening in a large animal model of long gap esophageal atresia. Journal of Pediatric Surgery, 2015, 50, 928-932.	0.8	8
89	Visible light and near-infrared-responsive chromophores for drug delivery-on-demand applications. Drug Delivery and Translational Research, 2015, 5, 611-624.	3.0	23
90	Translational aspects of cardiac cell therapy. Journal of Cellular and Molecular Medicine, 2015, 19, 1757-1772.	1.6	24

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91	NELL-1 in the treatment of osteoporotic bone loss. Nature Communications, 2015, 6, 7362.	5.8	93
92	Delivery of siRNA via cationic Sterosomes to enhance osteogenic differentiation of mesenchymal stem cells. Journal of Controlled Release, 2015, 217, 42-52.	4.8	63
93	Smooth Muscle Strips for Intestinal Tissue Engineering. PLoS ONE, 2014, 9, e114850.	1.1	19
94	A Novel Three-Dimensional Wound Healing Model. Journal of Developmental Biology, 2014, 2, 198-209.	0.9	24
95	A Cytokineâ€Delivering Polymer Is Effective in Reducing Tumor Burden in a Head and Neck Squamous Cell Carcinoma Murine Model. Otolaryngology - Head and Neck Surgery, 2014, 151, 447-453.	1.1	8
96	Intestinal lengthening in an innovative rodent surgical model. Journal of Pediatric Surgery, 2014, 49, 1791-1794.	0.8	27
97	Cartilaginous Extracellular Matrix-Modified Chitosan Hydrogels for Cartilage Tissue Engineering. ACS Applied Materials & Interfaces, 2014, 6, 20110-20121.	4.0	170
98	Bioactivity and circulation time of PEGylated NELL-1 in mice and the potential for osteoporosis therapy. Biomaterials, 2014, 35, 6614-6621.	5.7	14
99	Function of mechanically lengthened jejunum after restoration into continuity. Journal of Pediatric Surgery, 2014, 49, 971-975.	0.8	17
100	A novel biodegradable device for intestinal lengthening. Journal of Pediatric Surgery, 2014, 49, 109-113.	0.8	29
101	Sustained Growth Factor Delivery in Tissue Engineering Applications. Annals of Biomedical Engineering, 2014, 42, 1528-1536.	1.3	48
102	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. Biomaterials, 2014, 35, 5129-5137.	5.7	75
103	Concentration of Fibrin and Presence of Plasminogen Affect Proliferation, Fibrinolytic Activity, and Morphology of Human Fibroblasts and Keratinocytes in 3D Fibrin Constructs. Tissue Engineering - Part A, 2014, 20, 2860-2869.	1.6	10
104	A three-dimensional in vitro model to quantify inflammatory response to biomaterials. Acta Biomaterialia, 2014, 10, 4742-4749.	4.1	11
105	Dextran-Coated Gold Nanoprobes for the Concentration and Detection of Protein Biomarkers. Annals of Biomedical Engineering, 2014, 42, 2322-2332.	1.3	20
106	Using an aqueous twoâ€phase polymerâ€salt system to rapidly concentrate viruses for improving the detection limit of the lateralâ€flow immunoassay. Biotechnology and Bioengineering, 2014, 111, 2499-2507.	1.7	31
107	Enhancing angiogenesis alleviates hypoxia and improves engraftment of enteric cells in polycaprolactone scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 925-933.	1.3	8
108	NF-ÎºB inhibits osteogenic differentiation of mesenchymal stem cells by promoting Î²-catenin degradation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9469-9474.	3.3	263

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109	The Effect of Fibrinogen, Collagen Type I, and Fibronectin on Mesenchymal Stem Cell Growth and Differentiation into Osteoblasts. Tissue Engineering - Part A, 2013, 19, 1416-1423.	1.6	77
110	Enhanced cell viability via strain stimulus and fluid flow in magnetically actuated scaffolds. Biotechnology and Bioengineering, 2013, 110, 936-946.	1.7	5
111	Macroporosity enhances vascularization of electrospun scaffolds. Journal of Surgical Research, 2013, 183, 18-26.	0.8	66
112	Customized biomimetic scaffolds created by indirect three-dimensional printing for tissue engineering. Biofabrication, 2013, 5, 045003.	3.7	125
113	A high-throughput comparative characterization of laser-induced soft tissue damage using 3D digital microscopy. Lasers in Medical Science, 2013, 28, 657-668.	1.0	8
114	Mechanical stability and clinical applicability assessment of novel orthodontic mini-implant design. Angle Orthodontist, 2013, 83, 832-841.	1.1	10
115	Abstract TP89: Ultra Thin Bioabsorbable Polymeric Coating On The Surface Of Coil Materials For Brain Aneurysms Treatment. Stroke, 2013, 44, .	1.0	0
116	Injectable macroporous microparticles for soft tissue augmentation. , 2012, 2012, 2428-31.		0
117	An Abundant Perivascular Source of Stem Cells for Bone Tissue Engineering. Stem Cells Translational Medicine, 2012, 1, 673-684.	1.6	112
118	Recent Advances in 3D Printing of Tissue Engineering Scaffolds. Methods in Molecular Biology, 2012, 868, 257-267.	0.4	66
119	Permeability of Three-Dimensional Fibrin Constructs Corresponds to Fibrinogen and Thrombin Concentrations. BioResearch Open Access, 2012, 1, 34-40.	2.6	30
120	NELL-1 Promotes Cartilage Regeneration in an In Vivo Rabbit Model. Tissue Engineering - Part A, 2012, 18, 252-261.	1.6	43
121	Perivascular Stem Cells: A Prospectively Purified Mesenchymal Stem Cell Population for Bone Tissue Engineering. Stem Cells Translational Medicine, 2012, 1, 510-519.	1.6	147
122	Transplantation of Enteric Cells Expressing p75 in the Rodent Stomach. Journal of Surgical Research, 2012, 174, 257-265.	0.8	14
123	Transplantation of Enteric Cells into the Aganglionic Rodent Small Intestines. Journal of Surgical Research, 2012, 176, 20-28.	0.8	17
124	NELL-1 increases pre-osteoblast mineralization using both phosphate transporter Pit1 and Pit2. Biochemical and Biophysical Research Communications, 2012, 422, 351-357.	1.0	36
125	High-performance flexible lithium-ion electrodes based on robust network architecture. Energy and Environmental Science, 2012, 5, 6845.	15.6	144
126	Enhancing the lateral-flow immunoassay for detection of proteins using an aqueous two-phase micellar system. Analytical and Bioanalytical Chemistry, 2012, 404, 2057-2066.	1.9	37

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127	Nuclear Fusionâ€Independent Smooth Muscle Differentiation of Human Adiposeâ€Derived Stem Cells Induced by a Smooth Muscle Environment. Stem Cells, 2012, 30, 481-490.	1.4	25
128	The suitability of human adipose-derived stem cells for the engineering of ligament tissue. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 702-709.	1.3	36
129	Delivery of VEGF using collagenâ€coated polycaprolactone scaffolds stimulates angiogenesis. Journal of Biomedical Materials Research - Part A, 2012, 100A, 720-727.	2.1	66
130	Lamellar stack formation and degradative behaviors of hydrolytically degraded poly(Ìµâ€caprolactone) and poly(glycolideâ€Ìµâ€caprolactone) blended fibers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 274-284.	1.6	17
131	The Nell-1 Growth Factor Stimulates Bone Formation by Purified Human Perivascular Cells. Tissue Engineering - Part A, 2011, 17, 2497-2509.	1.6	54
132	High Doses of Bone Morphogenetic Protein 2 Induce Structurally Abnormal Bone and Inflammation In Vivo. Tissue Engineering - Part A, 2011, 17, 1389-1399.	1.6	470
133	Mechanical stability assessment of novel orthodontic mini-implant designs: Part 2. Angle Orthodontist, 2011, 81, 1001-1009.	1.1	22
134	Growth Factors Adsorbed on Polyglycolic Acid Mesh Augment Growth of Bioengineered Intestinal Neomucosa. Journal of Surgical Research, 2011, 169, 169-178.	0.8	12
135	Acute Skeletal Injury Is Necessary for Human Adipose-Derived Stromal Cellâ€"Mediated Calvarial Regeneration. Plastic and Reconstructive Surgery, 2011, 127, 1118-1129.	0.7	38
136	Differences in Osteogenic Differentiation of Adipose-Derived Stromal Cells from Murine, Canine, and Human Sources In Vitro and In Vivo. Plastic and Reconstructive Surgery, 2011, 128, 373-386.	0.7	50
137	Nell-1 Enhances Bone Regeneration in a Rat Critical-Sized Femoral Segmental Defect Model. Plastic and Reconstructive Surgery, 2011, 127, 580-587.	0.7	51
138	Adipose-derived Stem cells and BMP2: Part 2. BMP2 may not influence the osteogenic fate of human adipose-derived stem cells. Connective Tissue Research, 2011, 52, 119-132.	1.1	53
139	Osteoblast Interactions Within a Biomimetic Apatite Microenvironment. Annals of Biomedical Engineering, 2011, 39, 1186-1200.	1.3	17
140	The enhancement of VEGF-mediated angiogenesis by polycaprolactone scaffolds with surface cross-linked heparin. Biomaterials, 2011, 32, 2059-2069.	5.7	136
141	Stability comparison between commercially available mini-implants and a novel design: Part 1. Angle Orthodontist, 2011, 81, 692-699.	1.1	30
142	Human Adipose-Derived Stromal Cells Stimulate Autogenous Skeletal Repair via Paracrine Hedgehog Signaling with Calvarial Osteoblasts. Stem Cells and Development, 2011, 20, 243-257.	1.1	57
143	Influence of 8DSS Peptide on Nano-mechanical Behavior of Human Enamel. Journal of Dental Research, 2011, 90, 88-92.	2.5	47
144	Accelerating Vascularization in Polycaprolactone Scaffolds by Endothelial Progenitor Cells. Tissue Engineering - Part A, 2011, 17, 1819-1830.	1.6	49

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145	Deleterious Effects of Freezing on Osteogenic Differentiation of Human Adipose-Derived Stromal Cells In Vitro and In Vivo. Stem Cells and Development, 2011, 20, 427-439.	1.1	55
146	Nell-1 Protein Promotes Bone Formation in a Sheep Spinal Fusion Model. Tissue Engineering - Part A, 2011, 17, 1123-1135.	1.6	63
147	Adipose-derived stem cells and BMP2: Part 1. BMP2-treated adipose-derived stem cells do not improve repair of segmental femoral defects. Connective Tissue Research, 2011, 52, 109-118.	1.1	55
148	Rapid Probing of Biological Surfaces with a Sparse-Matrix Peptide Library. PLoS ONE, 2011, 6, e23551.	1.1	7
149	The Effect of Growth and Differentiation Factor-5 on Two-Dimensional Cultures of Mouse Bone Marrow Stromal Cells. Journal of Biomaterials and Tissue Engineering, 2011, 1, 210-214.	0.0	0
150	The role of the 3D environment in hypoxia-induced drug and apoptosis resistance. Anticancer Research, 2011, 31, 3237-45.	0.5	75
151	Modification of the diphenylamine assay for cell quantification in threeâ€dimensional biodegradable polymeric scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 92B, 499-507.	1.6	3
152	Preliminary Evaluation of a Novel Bone-Conduction Device for Single-Sided Deafness. Otology and Neurotology, 2010, 31, 492-497.	0.7	21
153	Enhancing the lateral-flow immunoassay for viral detection using an aqueous two-phase micellar system. Analytical and Bioanalytical Chemistry, 2010, 398, 2955-2961.	1.9	46
154	Specific Binding and Mineralization of Calcified Surfaces by Small Peptides. Calcified Tissue International, 2010, 86, 58-66.	1.5	86
155	Intravascular tissue reactions induced by various types of bioabsorbable polymeric materials: correlation between the degradation profiles and corresponding tissue reactions. Neuroradiology, 2010, 52, 1017-1024.	1.1	11
156	The use of BMP-2 coupled â€“ Nanosilver-PLGA composite grafts to induce bone repair in grossly infected segmental defects. Biomaterials, 2010, 31, 9293-9300.	5.7	121
157	The Effect of NELL1 and Bone Morphogenetic Protein-2 on Calvarial Bone Regeneration. Journal of Oral and Maxillofacial Surgery, 2010, 68, 300-308.	0.5	46
158	Incorporation of multicellular spheroids into 3â€Ð polymeric scaffolds provides an improved tumor model for screening anticancer drugs. Cancer Science, 2010, 101, 2637-2643.	1.7	99
159	Delivery of Lyophilized Nell-1 in a Rat Spinal Fusion Model. Tissue Engineering - Part A, 2010, 16, 2861-2870.	1.6	54
160	Facile Synthesis of Octacalcium Phosphate Nanobelts: Growth Mechanism and Surface Adsorption Properties. Journal of Physical Chemistry C, 2010, 114, 6265-6271.	1.5	34
161	Effect of Nell-1 Delivery on Chondrocyte Proliferation and Cartilaginous Extracellular Matrix Deposition. Tissue Engineering - Part A, 2010, 16, 1791-1800.	1.6	41
162	Human Adipose Derived Stromal Cells Heal Critical Size Mouse Calvarial Defects. PLoS ONE, 2010, 5, e11177.	1.1	255

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163	Modulation of 3D Fibrin Matrix Stiffness by Intrinsic Fibrinogenâ€“Thrombin Compositions and by Extrinsic Cellular Activity. Tissue Engineering - Part A, 2009, 15, 1865-1876.	1.6	149
164	Cell growth as a sheet on threeâ€dimensional sharpâ€tip nanostructures. Journal of Biomedical Materials Research - Part A, 2009, 89A, 804-817.	2.1	31
165	A Novel Modular Polymer Platform for the Treatment of Head and Neck Squamous Cell Carcinoma. Laryngoscope, 2009, 119, S156.	1.1	0
166	Urinary bladder smooth muscle engineered from adipose stem cells and a three dimensional synthetic composite. Biomaterials, 2009, 30, 3259-3270.	5.7	184
167	Biomimetic apatite-coated alginate/chitosan microparticles as osteogenic protein carriers. Biomaterials, 2009, 30, 6094-6101.	5.7	115
168	Octacalcium phosphate microscopic superstructure self-assembly and evolution by dual-mediating combination. CrystEngComm, 2009, 11, 1585.	1.3	11
169	Measurement of the tensile strength of cellâ€“biomaterial interface using the laser spallation technique. Acta Biomaterialia, 2008, 4, 1657-1668.	4.1	13
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