

Benjamin M Wu

List of Publications by Year in descending order

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Version: 2024-02-01

211
papers

14,337
citations

30551

56
h-index

25230

113
g-index

215
all docs

215
docs citations

215
times ranked

19353
citing authors

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

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

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37	Liquid Metal-Based Multifunctional Micropipette for 4D Single Cell Manipulation. <i>Advanced Science</i> , 2018, 5, 1700711.	5.6	25
38	Keratinocyte Migration in a Three-Dimensional In Vitro Wound Healing Model Co-Cultured with Fibroblasts. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 721-733.	1.6	24
39	A one-pot, isothermal DNA sample preparation and amplification platform utilizing aqueous two-phase systems. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5255-5263.	1.9	14
40	Photopolymerizable chitosan-collagen hydrogels for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 164-174.	1.3	103
41	Biological and mechanical characterization of chitosan-alginate scaffolds for growth factor delivery and chondrogenesis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 272-282.	1.6	36
42	Recent advances in light-responsive on-demand drug-delivery systems. <i>Therapeutic Delivery</i> , 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. <i>Acta Biomaterialia</i> , 2017, 58, 214-224.	4.1	48
44	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontist's point of view. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 455-461.	1.1	27
45	Human Periodontal Ligament and Gingiva-derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. <i>Advanced Healthcare Materials</i> , 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. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 162.	1.7	47
47	Small molecule-mediated tribbles homolog 3 promotes bone formation induced by bone morphogenetic protein-2. <i>Scientific Reports</i> , 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. <i>Mikrochimica Acta</i> , 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. <i>ACS Nano</i> , 2017, 11, 8055-8063.	7.3	42
50	Regulation of the fate of dental-derived mesenchymal stem cells using engineered alginate-GelMA hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2957-2967.	2.1	47
51	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. <i>Acta Biomaterialia</i> , 2017, 60, 181-189.	4.1	49
52	Enhanced Mandibular Bone Repair by Combined Treatment of Bone Morphogenetic Protein 2 and Small-Molecule Phenamil. <i>Tissue Engineering - Part A</i> , 2017, 23, 195-207.	1.6	23
53	Clinical application of a shape memory implant abutment system. <i>Journal of Prosthetic Dentistry</i> , 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. <i>Bioengineering</i> , 2017, 4, 11.	1.6	37
56	Vertebral Implantation of NELL-1 Enhances Bone Formation in an Osteoporotic Sheep Model. <i>Tissue Engineering - Part A</i> , 2016, 22, 840-849.	1.6	20
57	Use of ultra-high molecular weight polycaprolactone scaffolds for ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2016, 34, 828-835.	1.2	16
58	Efficacy of Intraperitoneal Administration of PEGylated NELL-1 for Bone Formation. <i>BioResearch Open Access</i> , 2016, 5, 159-170.	2.6	7
59	Mechanical lengthening in multiple intestinal segments in-series. <i>Journal of Pediatric Surgery</i> , 2016, 51, 957-959.	0.8	15
60	Spring-mediated distraction enterogenesis in-continuity. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1983-1987.	0.8	25
61	Scalability of an endoluminal spring for distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1988-1992.	0.8	20
62	Mesenchymal stem cell growth on and mechanical properties of fibrin-based biomimetic bone scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2945-2953.	2.1	27
63	Vertical scanning interferometry: A new method to quantify re-/de-mineralization dynamics of dental enamel. <i>Dental Materials</i> , 2016, 32, e251-e261.	1.6	10
64	Controlled release of NELL-1 protein from chitosan/hydroxyapatite-modified TCP particles. <i>International Journal of Pharmaceutics</i> , 2016, 511, 79-89.	2.6	9
65	Development of quantitative radioactive methodologies on paper to determine important lateral-flow immunoassay parameters. <i>Lab on A Chip</i> , 2016, 16, 2871-2881.	3.1	19
66	Basic fibroblast growth factor eluting microspheres enhance distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016, 51, 960-965.	0.8	6
67	Hypoxic culture conditions induce increased metabolic rate and collagen gene expression in ACL-derived cells. <i>Journal of Orthopaedic Research</i> , 2016, 34, 985-994.	1.2	10
68	Fibromodulin reprogrammed cells: A novel cell source for bone regeneration. <i>Biomaterials</i> , 2016, 83, 194-206.	5.7	29
69	Enhanced Osteogenesis of Adipose-Derived Stem Cells by Regulating Bone Morphogenetic Protein Signaling Antagonists and Agonists. <i>Stem Cells Translational Medicine</i> , 2016, 5, 539-551.	1.6	39
70	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1908-1920.	1.3	71
71	Macro- and micro-designed chitosan-alginate scaffold architecture by three-dimensional printing and directional freezing. <i>Biofabrication</i> , 2016, 8, 015003.	3.7	64
72	Wide-field Raman imaging for bone detection in tissue. <i>Biomedical Optics Express</i> , 2015, 6, 3892.	1.5	20

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

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91	NELL-1 in the treatment of osteoporotic bone loss. <i>Nature Communications</i> , 2015, 6, 7362.	5.8	93
92	Delivery of siRNA via cationic Sterosomes to enhance osteogenic differentiation of mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2015, 217, 42-52.	4.8	63
93	Smooth Muscle Strips for Intestinal Tissue Engineering. <i>PLoS ONE</i> , 2014, 9, e114850.	1.1	19
94	A Novel Three-Dimensional Wound Healing Model. <i>Journal of Developmental Biology</i> , 2014, 2, 198-209.	0.9	24
95	A Cytokine-Delivering Polymer Is Effective in Reducing Tumor Burden in a Head and Neck Squamous Cell Carcinoma Murine Model. <i>Otolaryngology - Head and Neck Surgery</i> , 2014, 151, 447-453.	1.1	8
96	Intestinal lengthening in an innovative rodent surgical model. <i>Journal of Pediatric Surgery</i> , 2014, 49, 1791-1794.	0.8	27
97	Cartilaginous Extracellular Matrix-Modified Chitosan Hydrogels for Cartilage Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20110-20121.	4.0	170
98	Bioactivity and circulation time of PEGylated NELL-1 in mice and the potential for osteoporosis therapy. <i>Biomaterials</i> , 2014, 35, 6614-6621.	5.7	14
99	Function of mechanically lengthened jejunum after restoration into continuity. <i>Journal of Pediatric Surgery</i> , 2014, 49, 971-975.	0.8	17
100	A novel biodegradable device for intestinal lengthening. <i>Journal of Pediatric Surgery</i> , 2014, 49, 109-113.	0.8	29
101	Sustained Growth Factor Delivery in Tissue Engineering Applications. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1528-1536.	1.3	48
102	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. <i>Biomaterials</i> , 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. <i>Tissue Engineering - Part A</i> , 2014, 20, 2860-2869.	1.6	10
104	A three-dimensional in vitro model to quantify inflammatory response to biomaterials. <i>Acta Biomaterialia</i> , 2014, 10, 4742-4749.	4.1	11
105	Dextran-Coated Gold Nanoprobes for the Concentration and Detection of Protein Biomarkers. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2322-2332.	1.3	20
106	Using an aqueous two-phase polymer-salt system to rapidly concentrate viruses for improving the detection limit of the lateral-flow immunoassay. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2499-2507.	1.7	31
107	Enhancing angiogenesis alleviates hypoxia and improves engraftment of enteric cells in polycaprolactone scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 925-933.	1.3	8
108	NF- κ B inhibits osteogenic differentiation of mesenchymal stem cells by promoting β -catenin degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Tissue Engineering - Part A</i> , 2013, 19, 1416-1423.	1.6	77
110	Enhanced cell viability via strain stimulus and fluid flow in magnetically actuated scaffolds. <i>Biotechnology and Bioengineering</i> , 2013, 110, 936-946.	1.7	5
111	Macroporosity enhances vascularization of electrospun scaffolds. <i>Journal of Surgical Research</i> , 2013, 183, 18-26.	0.8	66
112	Customized biomimetic scaffolds created by indirect three-dimensional printing for tissue engineering. <i>Biofabrication</i> , 2013, 5, 045003.	3.7	125
113	A high-throughput comparative characterization of laser-induced soft tissue damage using 3D digital microscopy. <i>Lasers in Medical Science</i> , 2013, 28, 657-668.	1.0	8
114	Mechanical stability and clinical applicability assessment of novel orthodontic mini-implant design. <i>Angle Orthodontist</i> , 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. <i>Stroke</i> , 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. <i>Stem Cells Translational Medicine</i> , 2012, 1, 673-684.	1.6	112
118	Recent Advances in 3D Printing of Tissue Engineering Scaffolds. <i>Methods in Molecular Biology</i> , 2012, 868, 257-267.	0.4	66
119	Permeability of Three-Dimensional Fibrin Constructs Corresponds to Fibrinogen and Thrombin Concentrations. <i>BioResearch Open Access</i> , 2012, 1, 34-40.	2.6	30
120	NELL-1 Promotes Cartilage Regeneration in an <i>In Vivo</i> Rabbit Model. <i>Tissue Engineering - Part A</i> , 2012, 18, 252-261.	1.6	43
121	Perivascular Stem Cells: A Prospectively Purified Mesenchymal Stem Cell Population for Bone Tissue Engineering. <i>Stem Cells Translational Medicine</i> , 2012, 1, 510-519.	1.6	147
122	Transplantation of Enteric Cells Expressing p75 in the Rodent Stomach. <i>Journal of Surgical Research</i> , 2012, 174, 257-265.	0.8	14
123	Transplantation of Enteric Cells into the Aganglionic Rodent Small Intestines. <i>Journal of Surgical Research</i> , 2012, 176, 20-28.	0.8	17
124	NELL-1 increases pre-osteoblast mineralization using both phosphate transporter Pit1 and Pit2. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 351-357.	1.0	36
125	High-performance flexible lithium-ion electrodes based on robust network architecture. <i>Energy and Environmental Science</i> , 2012, 5, 6845.	15.6	144
126	Enhancing the lateral-flow immunoassay for detection of proteins using an aqueous two-phase micellar system. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2057-2066.	1.9	37

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127	Nuclear Fusion-Independent Smooth Muscle Differentiation of Human Adipose-Derived Stem Cells Induced by a Smooth Muscle Environment. <i>Stem Cells</i> , 2012, 30, 481-490.	1.4	25
128	The suitability of human adipose-derived stem cells for the engineering of ligament tissue. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, 702-709.	1.3	36
129	Delivery of VEGF using collagen-coated polycaprolactone scaffolds stimulates angiogenesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 720-727.	2.1	66
130	Lamellar stack formation and degradative behaviors of hydrolytically degraded poly(ϵ -caprolactone) and poly(glycolide- ϵ -caprolactone) blended fibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 274-284.	1.6	17
131	The Nell-1 Growth Factor Stimulates Bone Formation by Purified Human Perivascular Cells. <i>Tissue Engineering - Part A</i> , 2011, 17, 2497-2509.	1.6	54
132	High Doses of Bone Morphogenetic Protein 2 Induce Structurally Abnormal Bone and Inflammation <i>In Vivo</i> . <i>Tissue Engineering - Part A</i> , 2011, 17, 1389-1399.	1.6	470
133	Mechanical stability assessment of novel orthodontic mini-implant designs: Part 2. <i>Angle Orthodontist</i> , 2011, 81, 1001-1009.	1.1	22
134	Growth Factors Adsorbed on Polyglycolic Acid Mesh Augment Growth of Bioengineered Intestinal Neomucosa. <i>Journal of Surgical Research</i> , 2011, 169, 169-178.	0.8	12
135	Acute Skeletal Injury Is Necessary for Human Adipose-Derived Stromal Cell-Mediated Calvarial Regeneration. <i>Plastic and Reconstructive Surgery</i> , 2011, 127, 1118-1129.	0.7	38
136	Differences in Osteogenic Differentiation of Adipose-Derived Stromal Cells from Murine, Canine, and Human Sources <i>In Vitro</i> and <i>In Vivo</i> . <i>Plastic and Reconstructive Surgery</i> , 2011, 128, 373-386.	0.7	50
137	Nell-1 Enhances Bone Regeneration in a Rat Critical-Sized Femoral Segmental Defect Model. <i>Plastic and Reconstructive Surgery</i> , 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. <i>Connective Tissue Research</i> , 2011, 52, 119-132.	1.1	53
139	Osteoblast Interactions Within a Biomimetic Apatite Microenvironment. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1186-1200.	1.3	17
140	The enhancement of VEGF-mediated angiogenesis by polycaprolactone scaffolds with surface cross-linked heparin. <i>Biomaterials</i> , 2011, 32, 2059-2069.	5.7	136
141	Stability comparison between commercially available mini-implants and a novel design: Part 1. <i>Angle Orthodontist</i> , 2011, 81, 692-699.	1.1	30
142	Human Adipose-Derived Stromal Cells Stimulate Autogenous Skeletal Repair via Paracrine Hedgehog Signaling with Calvarial Osteoblasts. <i>Stem Cells and Development</i> , 2011, 20, 243-257.	1.1	57
143	Influence of 8DSS Peptide on Nano-mechanical Behavior of Human Enamel. <i>Journal of Dental Research</i> , 2011, 90, 88-92.	2.5	47
144	Accelerating Vascularization in Polycaprolactone Scaffolds by Endothelial Progenitor Cells. <i>Tissue Engineering - Part A</i> , 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. <i>Stem Cells and Development</i> , 2011, 20, 427-439.	1.1	55
146	Nell-1 Protein Promotes Bone Formation in a Sheep Spinal Fusion Model. <i>Tissue Engineering - Part A</i> , 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. <i>Connective Tissue Research</i> , 2011, 52, 109-118.	1.1	55
148	Rapid Probing of Biological Surfaces with a Sparse-Matrix Peptide Library. <i>PLoS ONE</i> , 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. <i>Journal of Biomaterials and Tissue Engineering</i> , 2011, 1, 210-214.	0.0	0
150	The role of the 3D environment in hypoxia-induced drug and apoptosis resistance. <i>Anticancer Research</i> , 2011, 31, 3237-45.	0.5	75
151	Modification of the diphenylamine assay for cell quantification in three-dimensional biodegradable polymeric scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 92B, 499-507.	1.6	3
152	Preliminary Evaluation of a Novel Bone-Conduction Device for Single-Sided Deafness. <i>Otology and Neurotology</i> , 2010, 31, 492-497.	0.7	21
153	Enhancing the lateral-flow immunoassay for viral detection using an aqueous two-phase micellar system. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2955-2961.	1.9	46
154	Specific Binding and Mineralization of Calcified Surfaces by Small Peptides. <i>Calcified Tissue International</i> , 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. <i>Neuroradiology</i> , 2010, 52, 1017-1024.	1.1	11
156	The use of BMP-2 coupled Nanosilver-PLGA composite grafts to induce bone repair in grossly infected segmental defects. <i>Biomaterials</i> , 2010, 31, 9293-9300.	5.7	121
157	The Effect of NELL1 and Bone Morphogenetic Protein-2 on Calvarial Bone Regeneration. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010, 68, 300-308.	0.5	46
158	Incorporation of multicellular spheroids into polymeric scaffolds provides an improved tumor model for screening anticancer drugs. <i>Cancer Science</i> , 2010, 101, 2637-2643.	1.7	99
159	Delivery of Lyophilized Nell-1 in a Rat Spinal Fusion Model. <i>Tissue Engineering - Part A</i> , 2010, 16, 2861-2870.	1.6	54
160	Facile Synthesis of Octacalcium Phosphate Nanobelts: Growth Mechanism and Surface Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6265-6271.	1.5	34
161	Effect of Nell-1 Delivery on Chondrocyte Proliferation and Cartilaginous Extracellular Matrix Deposition. <i>Tissue Engineering - Part A</i> , 2010, 16, 1791-1800.	1.6	41
162	Human Adipose Derived Stromal Cells Heal Critical Size Mouse Calvarial Defects. <i>PLoS ONE</i> , 2010, 5, e11177.	1.1	255

#	ARTICLE	IF	CITATIONS
163	Modulation of 3D Fibrin Matrix Stiffness by Intrinsic Fibrinogen-Thrombin Compositions and by Extrinsic Cellular Activity. <i>Tissue Engineering - Part A</i> , 2009, 15, 1865-1876.	1.6	149
164	Cell growth as a sheet on three-dimensional sharp-tip nanostructures. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 804-817.	2.1	31
165	A Novel Modular Polymer Platform for the Treatment of Head and Neck Squamous Cell Carcinoma. <i>Laryngoscope</i> , 2009, 119, S156.	1.1	0
166	Urinary bladder smooth muscle engineered from adipose stem cells and a three dimensional synthetic composite. <i>Biomaterials</i> , 2009, 30, 3259-3270.	5.7	184
167	Biomimetic apatite-coated alginate/chitosan microparticles as osteogenic protein carriers. <i>Biomaterials</i> , 2009, 30, 6094-6101.	5.7	115
168	Octacalcium phosphate microscopic superstructure self-assembly and evolution by dual-mediating combination. <i>CrystEngComm</i> , 2009, 11, 1585.	1.3	11
169	Measurement of the tensile strength of cell-biomaterial interface using the laser spallation technique. <i>Acta Biomaterialia</i> , 2008, 4, 1657-1668.	4.1	13
170	Effect of scaffold architecture and pore size on smooth muscle cell growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 1010-1016.	2.1	115
171	Three-dimensional electrospun ECM-based hybrid scaffolds for cardiovascular tissue engineering. <i>Biomaterials</i> , 2008, 29, 2907-2914.	5.7	408
172	Hypoxic Cell Death is Reduced by pH Buffering in a Model of Engineered Heart Tissue. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2008, 36, 94-113.	0.9	6
173	Intestinal Smooth Muscle Cell Maintenance by Basic Fibroblast Growth Factor. <i>Tissue Engineering - Part A</i> , 2008, 14, 1395-1402.	1.6	45
174	The Effects of Local bFGF Release and Uniaxial Strain on Cellular Adaptation and Gene Expression in a 3D Environment: Implications for Ligament Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 2721-2731.	4.9	48
175	A Study of the Role of Nell-1 Gene Modified Goat Bone Marrow Stromal Cells in Promoting New Bone Formation. <i>Molecular Therapy</i> , 2007, 15, 1872-1880.	3.7	79
176	Thrombus organization and healing in an experimental aneurysm model. Part II. The effect of various types of bioactive bioabsorbable polymeric coils. <i>Journal of Neurosurgery</i> , 2007, 107, 109-120.	0.9	27
177	Refining Retinoic Acid Stimulation for Osteogenic Differentiation of Murine Adipose-Derived Adult Stromal Cells. <i>Tissue Engineering</i> , 2007, 13, 1623-1631.	4.9	41
178	Thrombus organization and healing in the swine experimental aneurysm model. Part I. A histological and molecular analysis. <i>Journal of Neurosurgery</i> , 2007, 107, 94-108.	0.9	41
179	Noggin Suppression Enhances in Vitro Osteogenesis and Accelerates in Vivo Bone Formation. <i>Journal of Biological Chemistry</i> , 2007, 282, 26450-26459.	1.6	138
180	The osteoinductive properties of Nell-1 in a rat spinal fusion model. <i>Spine Journal</i> , 2007, 7, 50-60.	0.6	108

#	ARTICLE	IF	CITATIONS
181	MicroCT Evaluation of Three-Dimensional Mineralization in Response to BMP-2 Doses In Vitro and in Critical Sized Rat Calvarial Defects. <i>Tissue Engineering</i> , 2007, 13, 501-512.	4.9	141
182	Analysis of oxygen transport in a diffusion-limited model of engineered heart tissue. <i>Biotechnology and Bioengineering</i> , 2007, 97, 962-975.	1.7	85
183	Oxysterols enhance osteoblast differentiation in vitro and bone healing in vivo. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1488-1497.	1.2	56
184	Modulation of protein delivery from modular polymer scaffolds. <i>Biomaterials</i> , 2007, 28, 1862-1870.	5.7	70
185	Synergistic Effects of Nell-1 and BMP-2 on the Osteogenic Differentiation of Myoblasts. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 918-930.	3.1	68
186	Analysis of pH Gradients Resulting from Mass Transport Limitations in Engineered Heart Tissue. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1885-1897.	1.3	4
187	Cell interaction with three-dimensional sharp-tip nanotopography. <i>Biomaterials</i> , 2007, 28, 1672-1679.	5.7	251
188	Nell-1-Induced Bone Regeneration in Calvarial Defects. <i>American Journal of Pathology</i> , 2006, 169, 903-915.	1.9	105
189	Tissue Engineering for Anterior Cruciate Ligament Reconstruction: A Review of Current Strategies. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2006, 22, 441-451.	1.3	204
190	The Behavior of Human Mesenchymal Stem Cells in 3D Fibrin Clots: Dependence on Fibrinogen Concentration and Clot Structure. <i>Tissue Engineering</i> , 2006, 12, 1587-1595.	4.9	210
191	Nell-1 induced bone formation within the distracted intermaxillary suture. <i>Bone</i> , 2006, 38, 48-58.	1.4	53
192	Distension enterogenesis: increasing the size and function of small intestine. <i>Journal of Pediatric Surgery</i> , 2006, 41, 763-767.	0.8	23
193	Contractile Function of the Mechanically Lengthened Intestine. <i>Journal of Surgical Research</i> , 2006, 136, 8-12.	0.8	17
194	Human Mesenchymal Stem Cell Proliferation and Osteogenic Differentiation in Fibrin Gels in Vitro. <i>Tissue Engineering</i> , 2006, 12, 2385-2396.	4.9	205
195	Nell-1 induces acrania-like cranioskeletal deformities during mouse embryonic development. <i>Laboratory Investigation</i> , 2006, 86, 633-644.	1.7	24
196	Analysis of Cell Growth in Three-Dimensional Scaffolds. <i>Tissue Engineering</i> , 2006, 12, 705-716.	4.9	98
197	Clonogenic multipotent stem cells in human adipose tissue differentiate into functional smooth muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12167-12172.	3.3	292
198	The effect of biomimetic apatite structure on osteoblast viability, proliferation, and gene expression. <i>Biomaterials</i> , 2005, 26, 285-295.	5.7	218

#	ARTICLE	IF	CITATIONS
199	Gelatin-embedded cell-polymer constructs for histological cryosectioning. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72B, 79-85.	3.0	20
200	In vitro response of MC3T3-E1 preosteoblasts within three-dimensional apatite-coated PLGA scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 75B, 81-90.	1.6	108
201	Scaffold fabrication by indirect three-dimensional printing. <i>Biomaterials</i> , 2005, 26, 4281-4289.	5.7	243
202	Bone Morphogenetic Protein 2 and Retinoic Acid Accelerate in Vivo Bone Formation, Osteoclast Recruitment, and Bone Turnover. <i>Tissue Engineering</i> , 2005, 11, 645-658.	4.9	168
203	Adipose-derived adult stromal cells heal critical-size mouse calvarial defects. <i>Nature Biotechnology</i> , 2004, 22, 560-567.	9.4	842
204	The effect of pH on the structural evolution of accelerated biomimetic apatite. <i>Biomaterials</i> , 2004, 25, 5323-5331.	5.7	145
205	BMP-2 exerts differential effects on differentiation of rabbit bone marrow stromal cells grown in two-dimensional and three-dimensional systems and is required for in vitro bone formation in a PLGA scaffold. <i>Experimental Cell Research</i> , 2004, 299, 325-334.	1.2	101
206	Enterogenesis by mechanical lengthening: Morphology and function of the lengthened small intestine. <i>Journal of Pediatric Surgery</i> , 2004, 39, 1823-1827.	0.8	51
207	Overexpression of <i>Nell-1</i> , a Craniosynostosis-Associated Gene, Induces Apoptosis in Osteoblasts During Craniofacial Development. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 2126-2134.	3.1	53
208	Effects of solvent-particle interaction kinetics on microstructure formation during three-dimensional printing. <i>Polymer Engineering and Science</i> , 1999, 39, 249-260.	1.5	28
209	Survival and Function of Hepatocytes on a Novel Three-Dimensional Synthetic Biodegradable Polymer Scaffold With an Intrinsic Network of Channels. <i>Annals of Surgery</i> , 1998, 228, 8-13.	2.1	387
210	Mechanical properties of dense polylactic acid structures fabricated by three dimensional printing. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1997, 8, 63-75.	1.9	342
211	Solid free-form fabrication of drug delivery devices. <i>Journal of Controlled Release</i> , 1996, 40, 77-87.	4.8	359