Benjamin M Wu

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.

11,918 205 104 53 h-index g-index citations papers 6.1 6.48 13,169 215 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
205	Genetic and pharmacologic suppression of PPARlenhances NELL-1-stimulated bone regeneration. <i>Biomaterials</i> , 2022 , 121609	15.6	
204	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, The</i> , 2021 , 146, 7386-7393	5	0
203	Trb3 controls mesenchymal stem cell lineage fate and enhances bone regeneration by scaffold-mediated local gene delivery. <i>Biomaterials</i> , 2021 , 264, 120445	15.6	13
202	Zn-Mg-WC Nanocomposites for Bioresorbable Cardiovascular Stents: Microstructure, Mechanical Properties, Fatigue, Shelf Life, and Corrosion <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	3
201	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	2.1	5
200	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	2.3	7
199	Novel Zinc / Tungsten Carbide Nanocomposite as Bioabsorbable Implant. <i>Materials Letters</i> , 2020 , 263, 127282-127282	3.3	8
198	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	4	2
197	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	4	
196	Fabrication and characterization of bioresorbable zinc/WC nanocomposite springs for short bowel syndrome treatment. <i>Materials Letters</i> , 2020 , 280, 128577	3.3	0
195	Evaluation of a shape memory implant abutment system: An up to 6-month pilot clinical study. Journal of Prosthetic Dentistry, 2020 , 123, 257-263	4	3
194	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	4	2
193	Automation of Biomarker Preconcentration, Capture, and Nanozyme Signal Enhancement on Paper-Based Devices. <i>Analytical Chemistry</i> , 2019 , 91, 12046-12054	7.8	8
192	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	3.4	4
191	Harnessing the versatility of PLGA nanoparticles for targeted Cre-mediated recombination. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 19, 106-114	6	4
190	Microporous methacrylated glycol chitosan-montmorillonite nanocomposite hydrogel for bone tissue engineering. <i>Nature Communications</i> , 2019 , 10, 3523	17.4	152
189	Controlling Macroscopic Phase Separation of Aqueous Two-Phase Polymer Systems in Porous Media. <i>SLAS Technology</i> , 2019 , 24, 515-526	3	2

(2018-2019)

188	A Nitrogen- and Self-Doped Titania Coating Enables the On-Demand Release of Free Radical Species. <i>ACS Omega</i> , 2019 , 4, 18567-18573	3.9	1	
187	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	7.2	12	
186	Preparation of photothermal palmitic acid/cholesterol liposomes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1384-1392	3.5	4	
185	Mechanobiological Mimicry of Helper T Lymphocytes to Evaluate Cell-Biomaterials Crosstalk. <i>Advanced Materials</i> , 2018 , 30, e1706780	24	16	
184	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	4	5	
183	Using an Engineered Galvanic Redox System to Generate Positive Surface Potentials that Promote Osteogenic Functions. <i>ACS Applied Materials & Disterfaces</i> , 2018 , 10, 15449-15460	9.5	11	
182	The Effects of Systemic Therapy of PEGylated NEL-Like Protein 1 (NELL-1) on Fracture Healing in Mice. <i>American Journal of Pathology</i> , 2018 , 188, 715-727	5.8	8	
181	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	6.5	27	
180	MAPK signaling has stage-dependent osteogenic effects on human adipose-derived stem cells in vitro. <i>Connective Tissue Research</i> , 2018 , 59, 129-146	3.3	12	
179	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	5.5	4	
178	Three-dimensionally printed surface features to anchor endoluminal spring for distraction enterogenesis. <i>PLoS ONE</i> , 2018 , 13, e0200529	3.7	1	
177	Liquid Metal-Based Multifunctional Micropipette for 4D Single Cell Manipulation. <i>Advanced Science</i> , 2018 , 5, 1700711	13.6	11	
176	Keratinocyte Migration in a Three-Dimensional Wound Healing Model Co-Cultured with Fibroblasts. <i>Tissue Engineering and Regenerative Medicine</i> , 2018 , 15, 721-733	4.5	13	
175	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	4.4	11	
174	Calcium Phosphate Microspheres as a Delivery Vehicle for Tooth-Bleaching Agents. <i>Journal of Dental Research</i> , 2018 , 97, 283-288	8.1	6	
173	Photocurable Bioinks for the 3D Pharming of Combination Therapies. <i>Polymers</i> , 2018 , 10,	4.5	9	
172	Bioengineering functional smooth muscle with spontaneous rhythmic contraction in vitro. <i>Scientific Reports</i> , 2018 , 8, 13544	4.9	11	
171	Ionic Liquid Aqueous Two-Phase Systems for the Enhanced Paper-Based Detection of Transferrin and. Frontiers in Chemistry, 2018 , 6, 486	5	5	

170	Photopolymerizable chitosan-collagen hydrogels for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 164-174	4.4	80
169	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	3.5	29
168	Recent advances in light-responsive on-demand drug-delivery systems. <i>Therapeutic Delivery</i> , 2017 , 8, 89-107	3.8	114
167	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	10.8	28
166	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontists point of view. <i>Journal of Prosthetic Dentistry</i> , 2017 , 118, 455-461	4	18
165	Human Periodontal Ligament- and Gingiva-derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. <i>Advanced Healthcare</i> <i>Materials</i> , 2017 , 6, 1700670	10.1	44
164	Alginate/hyaluronic acid hydrogel delivery system characteristics regulate the differentiation of periodontal ligament stem cells toward chondrogenic lineage. <i>Journal of Materials Science:</i> Materials in Medicine, 2017, 28, 162	4.5	35
163	Small molecule-mediated tribbles homolog 3 promotes bone formation induced by bone morphogenetic protein-2. <i>Scientific Reports</i> , 2017 , 7, 7518	4.9	10
162	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	5.8	11
161	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	16.7	25
160	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	5.4	28
159	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. <i>Acta Biomaterialia</i> , 2017 , 60, 181-189	10.8	33
158	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	3.9	15
157	Clinical application of a shape memory implant abutment system. <i>Journal of Prosthetic Dentistry</i> , 2017 , 117, 8-12	4	11
156	Hydrogels in craniofacial tissue engineering 2017 , 47-64		5
155	Photocurable Bioink for the Inkjet 3D Pharming of Hydrophilic Drugs. <i>Bioengineering</i> , 2017 , 4,	5.3	25
154	Vertical scanning interferometry: A new method to quantify re-/de-mineralization dynamics of dental enamel. <i>Dental Materials</i> , 2016 , 32, e251-e261	5.7	8
153	Controlled release of NELL-1 protein from chitosan/hydroxyapatite-modified TCP particles. <i>International Journal of Pharmaceutics</i> , 2016 , 511, 79-89	6.5	7

(2015-2016)

152	Development of quantitative radioactive methodologies on paper to determine important lateral-flow immunoassay parameters. <i>Lab on A Chip</i> , 2016 , 16, 2871-81	7.2	13
151	Basic fibroblast growth factor eluting microspheres enhance distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016 , 51, 960-5	2.6	4
150	Hypoxic culture conditions induce increased metabolic rate and collagen gene expression in ACL-derived cells. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 985-94	3.8	8
149	Fibromodulin reprogrammed cells: A novel cell source for bone regeneration. <i>Biomaterials</i> , 2016 , 83, 194-206	15.6	21
148	Enhanced Osteogenesis of Adipose-Derived Stem Cells by Regulating Bone Morphogenetic Protein Signaling Antagonists and Agonists. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 539-51	6.9	30
147	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1908-20	4.7	51
146	Macro- and micro-designed chitosan-alginate scaffold architecture by three-dimensional printing and directional freezing. <i>Biofabrication</i> , 2016 , 8, 015003	10.5	50
145	Vertebral Implantation of NELL-1 Enhances Bone Formation in an Osteoporotic Sheep Model. <i>Tissue Engineering - Part A</i> , 2016 , 22, 840-9	3.9	15
144	Use of ultra-high molecular weight polycaprolactone scaffolds for ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 828-35	3.8	13
143	Efficacy of Intraperitoneal Administration of PEGylated NELL-1 for Bone Formation. <i>BioResearch Open Access</i> , 2016 , 5, 159-70	2.4	6
142	Mechanical lengthening in multiple intestinal segments in-series. <i>Journal of Pediatric Surgery</i> , 2016 , 51, 957-9	2.6	9
141	Spring-mediated distraction enterogenesis in-continuity. <i>Journal of Pediatric Surgery</i> , 2016 , 51, 1983-19	9 87 .6	15
140	Scalability of an endoluminal spring for distraction enterogenesis. <i>Journal of Pediatric Surgery</i> , 2016 , 51, 1988-1992	2.6	14
139	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	5.4	19
138	Repeated mechanical lengthening of intestinal segments in a novel model. <i>Journal of Pediatric Surgery</i> , 2015 , 50, 954-7	2.6	17
137	Glutamine-chitosan modified calcium phosphate nanoparticles for efficient siRNA delivery and osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6448-6455	7-3	39
136	Pharmacokinetics and osteogenic potential of PEGylated NELL-1 in vivo after systemic administration. <i>Biomaterials</i> , 2015 , 57, 73-83	15.6	9
135	Recent advances in 3D printing of biomaterials. <i>Journal of Biological Engineering</i> , 2015 , 9, 4	6.3	963

134	A novel method of esophageal lengthening in a large animal model of long gap esophageal atresia. Journal of Pediatric Surgery, 2015 , 50, 928-32	2.6	8
133	Visible light and near-infrared-responsive chromophores for drug delivery-on-demand applications. Drug Delivery and Translational Research, 2015 , 5, 611-24	6.2	18
132	Translational aspects of cardiac cell therapy. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 1757-	73 .6	20
131	NELL-1 in the treatment of osteoporotic bone loss. <i>Nature Communications</i> , 2015 , 6, 7362	17.4	74
130	Delivery of siRNA via cationic Sterosomes to enhance osteogenic differentiation of mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2015 , 217, 42-52	11.7	49
129	Wide-field Raman imaging for bone detection in tissue. <i>Biomedical Optics Express</i> , 2015 , 6, 3892-7	3.5	15
128	Improved resolution of 3D printed scaffolds by shrinking. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1415-23	3.5	4
127	Brief Report: Human Perivascular Stem Cells and Nel-Like Protein-1 Synergistically Enhance Spinal Fusion in Osteoporotic Rats. <i>Stem Cells</i> , 2015 , 33, 3158-63	5.8	33
126	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	3.7	12
125	Effects of Computer-Aided Manufacturing Technology on Precision of Clinical Metal-Free Restorations. <i>BioMed Research International</i> , 2015 , 2015, 619027	3	11
124	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, 2053-65	3.9	38
123	Single-step, paper-based concentration and detection of a malaria biomarker. <i>Analytica Chimica Acta</i> , 2015 , 882, 83-9	6.6	38
122	Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. <i>Biomaterials</i> , 2015 , 61, 75-84	15.6	32
121	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, 1859-68	3.9	38
120	In vivo evaluation of electrospun polycaprolactone graft for anterior cruciate ligament engineering. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1228-36	3.9	42
119	In vitro and in vivo 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	9- <u>3</u> :8	26
118	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. <i>Biomaterials</i> , 2014 , 35, 5129-37	15.6	56
117	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</i> 4 2014 20 2860-9	3.9	9

116	A three-dimensional in vitro model to quantify inflammatory response to biomaterials. <i>Acta Biomaterialia</i> , 2014 , 10, 4742-4749	10.8	10
115	Dextran-coated gold nanoprobes for the concentration and detection of protein biomarkers. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2322-32	4.7	15
114	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, 2499-507	4.9	26
113	High-resolution direct 3D printed PLGA scaffolds: print and shrink. <i>Biofabrication</i> , 2014 , 7, 015002	10.5	28
112	Smooth muscle strips for intestinal tissue engineering. <i>PLoS ONE</i> , 2014 , 9, e114850	3.7	11
111	A Novel Three-Dimensional Wound Healing Model. <i>Journal of Developmental Biology</i> , 2014 , 2, 198-209	3.5	16
110	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, 447-53	5.5	6
109	Intestinal lengthening in an innovative rodent surgical model. Journal of Pediatric Surgery, 2014, 49, 179	12-6	20
108	Cartilaginous extracellular matrix-modified chitosan hydrogels for cartilage tissue engineering. <i>ACS Applied Materials & Discrete Mate</i>	9.5	132
107	Bioactivity and circulation time of PEGylated NELL-1 in mice and the potential for osteoporosis therapy. <i>Biomaterials</i> , 2014 , 35, 6614-21	15.6	12
106	Function of mechanically lengthened jejunum after restoration into continuity. <i>Journal of Pediatric Surgery</i> , 2014 , 49, 971-4; discussion 974-5	2.6	14
105	A novel biodegradable device for intestinal lengthening. <i>Journal of Pediatric Surgery</i> , 2014 , 49, 109-13; discussion 113	2.6	24
104	Sustained growth factor delivery in tissue engineering applications. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1528-36	4.7	41
103	Enhancing angiogenesis alleviates hypoxia and improves engraftment of enteric cells in polycaprolactone scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 925-33	4.4	8
102	NF- B inhibits osteogenic differentiation of mesenchymal stem cells by promoting Etatenin degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9469-74	11.5	215
101	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, 1416-23	3.9	57
100	Enhanced cell viability via strain stimulus and fluid flow in magnetically actuated scaffolds. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 936-46	4.9	4
99	Macroporosity enhances vascularization of electrospun scaffolds. <i>Journal of Surgical Research</i> , 2013 , 183, 18-26	2.5	59

98	Customized biomimetic scaffolds created by indirect three-dimensional printing for tissue engineering. <i>Biofabrication</i> , 2013 , 5, 045003	10.5	103
97	A high-throughput comparative characterization of laser-induced soft tissue damage using 3D digital microscopy. <i>Lasers in Medical Science</i> , 2013 , 28, 657-68	3.1	5
96	Mechanical stability and clinical applicability assessment of novel orthodontic mini-implant design. Angle Orthodontist, 2013 , 83, 832-41	2.6	8
95	Delivery of VEGF using collagen-coated polycaprolactone scaffolds stimulates angiogenesis. Journal of Biomedical Materials Research - Part A, 2012 , 100, 720-7	5.4	59
94	Lamellar stack formation and degradative behaviors of hydrolytically degraded poly(Ecaprolactone) and poly(glycolide-Ecaprolactone) blended fibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 274-84	3.5	16
93	Recent advances in 3D printing of tissue engineering scaffolds. <i>Methods in Molecular Biology</i> , 2012 , 868, 257-67	1.4	54
92	Permeability of three-dimensional fibrin constructs corresponds to fibrinogen and thrombin concentrations. <i>BioResearch Open Access</i> , 2012 , 1, 34-40	2.4	22
91	NELL-1 promotes cartilage regeneration in an in vivo rabbit model. <i>Tissue Engineering - Part A</i> , 2012 , 18, 252-61	3.9	39
90	Perivascular stem cells: a prospectively purified mesenchymal stem cell population for bone tissue engineering. <i>Stem Cells Translational Medicine</i> , 2012 , 1, 510-9	6.9	131
89	Transplantation of enteric cells expressing p75 in the rodent stomach. <i>Journal of Surgical Research</i> , 2012 , 174, 257-65	2.5	11
88	Transplantation of enteric cells into the aganglionic rodent small intestines. <i>Journal of Surgical Research</i> , 2012 , 176, 20-8	2.5	14
87	NELL-1 increases pre-osteoblast mineralization using both phosphate transporter Pit1 and Pit2. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 422, 351-7	3.4	36
86	High-performance flexible lithium-ion electrodes based on robust network architecture. <i>Energy and Environmental Science</i> , 2012 , 5, 6845	35.4	137
85	Enhancing the lateral-flow immunoassay for detection of proteins using an aqueous two-phase micellar system. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2057-66	4.4	30
84	Nuclear fusion-independent smooth muscle differentiation of human adipose-derived stem cells induced by a smooth muscle environment. <i>Stem Cells</i> , 2012 , 30, 481-90	5.8	20
83	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, 702-9	4.4	31
82	Injectable macroporous microparticles for soft tissue augmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2428-31	0.9	
81	An abundant perivascular source of stem cells for bone tissue engineering. Stem Cells Translational Medicine, 2012, 1, 673-84	6.9	103

(2011-2011)

80	Growth factors adsorbed on polyglycolic acid mesh augment growth of bioengineered intestinal neomucosa. <i>Journal of Surgical Research</i> , 2011 , 169, 169-78	2.5	10
79	Acute skeletal injury is necessary for human adipose-derived stromal cell-mediated calvarial regeneration. <i>Plastic and Reconstructive Surgery</i> , 2011 , 127, 1118-1129	2.7	37
78	Differences in osteogenic differentiation of adipose-derived stromal cells from murine, canine, and human sources in vitro and in vivo. <i>Plastic and Reconstructive Surgery</i> , 2011 , 128, 373-386	2.7	40
77	Nell-1 enhances bone regeneration in a rat critical-sized femoral segmental defect model. <i>Plastic and Reconstructive Surgery</i> , 2011 , 127, 580-587	2.7	44
76	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, 119-32	3.3	48
75	Osteoblast interactions within a biomimetic apatite microenvironment. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1186-200	4.7	17
74	The Nell-1 growth factor stimulates bone formation by purified human perivascular cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2497-509	3.9	48
73	High doses of bone morphogenetic protein 2 induce structurally abnormal bone and inflammation in vivo. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1389-99	3.9	388
72	Mechanical stability assessment of novel orthodontic mini-implant designs: Part 2. <i>Angle Orthodontist</i> , 2011 , 81, 1001-9	2.6	21
71	The enhancement of VEGF-mediated angiogenesis by polycaprolactone scaffolds with surface cross-linked heparin. <i>Biomaterials</i> , 2011 , 32, 2059-69	15.6	121
70	Stability comparison between commercially available mini-implants and a novel design: part 1. <i>Angle Orthodontist</i> , 2011 , 81, 692-9	2.6	27
69	Human adipose-derived stromal cells stimulate autogenous skeletal repair via paracrine Hedgehog signaling with calvarial osteoblasts. <i>Stem Cells and Development</i> , 2011 , 20, 243-57	4.4	49
68	Influence of 8DSS peptide on nano-mechanical behavior of human enamel. <i>Journal of Dental Research</i> , 2011 , 90, 88-92	8.1	41
67	Accelerating vascularization in polycaprolactone scaffolds by endothelial progenitor cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1819-30	3.9	45
66	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, 427-39	4.4	50
65	Nell-1 protein promotes bone formation in a sheep spinal fusion model. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1123-35	3.9	59
64	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, 109-18	3.3	49
63	Rapid probing of biological surfaces with a sparse-matrix peptide library. <i>PLoS ONE</i> , 2011 , 6, e23551	3.7	5

62	The role of the 3D environment in hypoxia-induced drug and apoptosis resistance. <i>Anticancer Research</i> , 2011 , 31, 3237-45	2.3	61
61	Incorporation of multicellular spheroids into 3-D polymeric scaffolds provides an improved tumor model for screening anticancer drugs. <i>Cancer Science</i> , 2010 , 101, 2637-43	6.9	92
60	Delivery of lyophilized Nell-1 in a rat spinal fusion model. <i>Tissue Engineering - Part A</i> , 2010 , 16, 2861-70	3.9	48
59	Facile Synthesis of Octacalcium Phosphate Nanobelts: Growth Mechanism and Surface Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6265-6271	3.8	31
58	Effect of Nell-1 delivery on chondrocyte proliferation and cartilaginous extracellular matrix deposition. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1791-800	3.9	36
57	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 , 92, 499	o- 3 507	2
56	Preliminary evaluation of a novel bone-conduction device for single-sided deafness. <i>Otology and Neurotology</i> , 2010 , 31, 492-7	2.6	14
55	Enhancing the lateral-flow immunoassay for viral detection using an aqueous two-phase micellar system. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2955-61	4.4	43
54	Specific binding and mineralization of calcified surfaces by small peptides. <i>Calcified Tissue International</i> , 2010 , 86, 58-66	3.9	67
53	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, 1017-24	3.2	11
52	The use of BMP-2 coupled - Nanosilver-PLGA composite grafts to induce bone repair in grossly infected segmental defects. <i>Biomaterials</i> , 2010 , 31, 9293-300	15.6	104
51	The effect of NELL1 and bone morphogenetic protein-2 on calvarial bone regeneration. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010 , 68, 300-8	1.8	42
50	Human adipose derived stromal cells heal critical size mouse calvarial defects. PLoS ONE, 2010 , 5, e1117	73 .7	229
49	Modulation of 3D fibrin matrix stiffness by intrinsic fibrinogen-thrombin compositions and by extrinsic cellular activity. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1865-76	3.9	111
48	Cell growth as a sheet on three-dimensional sharp-tip nanostructures. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 804-17	5.4	27
47	A Novel Modular Polymer Platform for the Treatment of Head and Neck Squamous Cell Carcinoma. <i>Laryngoscope</i> , 2009 , 119, S156-S156	3.6	
46	Urinary bladder smooth muscle engineered from adipose stem cells and a three dimensional synthetic composite. <i>Biomaterials</i> , 2009 , 30, 3259-70	15.6	164
45	Biomimetic apatite-coated alginate/chitosan microparticles as osteogenic protein carriers. <i>Biomaterials</i> , 2009 , 30, 6094-101	15.6	100

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43	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		6
42	Intestinal smooth muscle cell maintenance by basic fibroblast growth factor. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1395-402	3.9	39
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40	Effect of scaffold architecture and pore size on smooth muscle cell growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 1010-6	5.4	98
39	Three-dimensional electrospun ECM-based hybrid scaffolds for cardiovascular tissue engineering. <i>Biomaterials</i> , 2008 , 29, 2907-14	15.6	376
38	Noggin suppression enhances in vitro osteogenesis and accelerates in vivo bone formation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26450-9	5.4	118
37	The osteoinductive properties of Nell-1 in a rat spinal fusion model. Spine Journal, 2007, 7, 50-60	4	94
36	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, 501-12		130
35	Analysis of oxygen transport in a diffusion-limited model of engineered heart tissue. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 962-75	4.9	74
34	Oxysterols enhance osteoblast differentiation in vitro and bone healing in vivo. <i>Journal of Orthopaedic Research</i> , 2007 , 25, 1488-97	3.8	52
33	Modulation of protein delivery from modular polymer scaffolds. <i>Biomaterials</i> , 2007 , 28, 1862-70	15.6	65
32	Synergistic effects of Nell-1 and BMP-2 on the osteogenic differentiation of myoblasts. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 918-30	6.3	59
31	Analysis of pH gradients resulting from mass transport limitations in engineered heart tissue. <i>Annals of Biomedical Engineering</i> , 2007 , 35, 1885-97	4.7	4
30	Cell interaction with three-dimensional sharp-tip nanotopography. <i>Biomaterials</i> , 2007 , 28, 1672-9	15.6	226
29	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, 2721-31		45
28	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, 1872-80	11.7	70
27	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, 109-20	3.2	22

26	Refining retinoic acid stimulation for osteogenic differentiation of murine adipose-derived adult stromal cells. <i>Tissue Engineering</i> , 2007 , 13, 1623-31		34
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23	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, 12167-72	11.5	261
22	Nell-1-induced bone regeneration in calvarial defects. <i>American Journal of Pathology</i> , 2006 , 169, 903-15	5.8	98
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19	Nell-1 induced bone formation within the distracted intermaxillary suture. <i>Bone</i> , 2006 , 38, 48-58	4.7	48
18	Distension enterogenesis: increasing the size and function of small intestine. <i>Journal of Pediatric Surgery</i> , 2006 , 41, 763-7	2.6	20
17	Contractile function of the mechanically lengthened intestine. <i>Journal of Surgical Research</i> , 2006 , 136, 8-12	2.5	15
16	Human mesenchymal stem cell proliferation and osteogenic differentiation in fibrin gels in vitro. <i>Tissue Engineering</i> , 2006 , 12, 2385-96		185
15	Nell-1 induces acrania-like cranioskeletal deformities during mouse embryonic development. <i>Laboratory Investigation</i> , 2006 , 86, 633-44	5.9	23
14	The effect of biomimetic apatite structure on osteoblast viability, proliferation, and gene expression. <i>Biomaterials</i> , 2005 , 26, 285-95	15.6	204
13	Gelatin-embedded cell-polymer constructs for histological cryosectioning. <i>Journal of Biomedical Materials Research Part B</i> , 2005 , 72, 79-85		17
12	In vitro response of MC3T3-E1 pre-osteoblasts within three-dimensional apatite-coated PLGA scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 81-90	3.5	96
11	Scaffold fabrication by indirect three-dimensional printing. <i>Biomaterials</i> , 2005 , 26, 4281-9	15.6	223
10	Bone morphogenetic protein 2 and retinoic acid accelerate in vivo bone formation, osteoclast recruitment, and bone turnover. <i>Tissue Engineering</i> , 2005 , 11, 645-58		144
9	Adipose-derived adult stromal cells heal critical-size mouse calvarial defects. <i>Nature Biotechnology</i> , 2004 , 22, 560-7	44.5	772

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8	The effect of pH on the structural evolution of accelerated biomimetic apatite. <i>Biomaterials</i> , 2004 , 25, 5323-31	15.6	131
7	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, 325-34	4.2	94
6	Enterogenesis by mechanical lengthening: morphology and function of the lengthened small intestine. <i>Journal of Pediatric Surgery</i> , 2004 , 39, 1823-7	2.6	44
5	Overexpression of Nell-1, a craniosynostosis-associated gene, induces apoptosis in osteoblasts during craniofacial development. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 2126-34	6.3	48
4	Effects of solvent-particle interaction kinetics on microstructure formation during three-dimensional printing. <i>Polymer Engineering and Science</i> , 1999 , 39, 249-260	2.3	23
3	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	7.8	346
2	Mechanical properties of dense polylactic acid structures fabricated by three dimensional printing. Journal of Biomaterials Science, Polymer Edition, 1996 , 8, 63-75	3.5	296
1	Solid free-form fabrication of drug delivery devices. <i>Journal of Controlled Release</i> , 1996 , 40, 77-87	11.7	282