F Kurtis Kasper

List of Publications by Year in Descending Order

144 papers	7,521 citations	49 h-index	84 g-index
144 ext. papers	8,308 ext. citations	6.9 avg, IF	6.05 L-index

#	Paper	IF	Citations
144	Bringing hydrogel-based craniofacial therapies to the clinic. *Acta Biomaterialia*, **2021**, 138, 1-1	10.8	1
143	Effect of print orientation on the dimensional accuracy of orthodontic aligners printed 3-dimensionally. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2021**, 160, 732-742.e1	2.1	1
142	Evaluation of the dimensional accuracy of thermoformed appliances taken from 3D printed models with varied shell thicknesses: An in vitro study. *International Orthodontics*, **2021**, 19, 137-146	0.9	4
141	Colour stability of 3D-printed resin orthodontic brackets. *Journal of Orthodontics*, **2021**, 48, 241-249	1.6	3
140	Cephalometric evaluation of changes in vertical dimension and molar position in adult non-extraction treatment with clear aligners and traditional fixed appliances. *Dental Press Journal of Orthodontics*, **2021**, 26, e2119360	1.3	2
139	Wear Resistance of 3D Printed and Prefabricated Denture Teeth Opposing Zirconia. *Journal of Prosthodontics*, **2021**, 30, 804-810	3.9	3
138	Effect of build angle and layer height on the accuracy of 3-dimensional printed dental models. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2021**, 160, 451-458.e2	2.1	2
137	Evaluation of current additive manufacturing systems for orthodontic 3-dimensional printing. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2021**, 160, 594-602	2.1	0
136	Analysis of the thickness of 3-dimensional-printed orthodontic aligners. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2020**, 158, e91-e98	2.1	14
135	Tissue engineering in oral and maxillofacial surgery **2020**, 1201-1220		0
134	Effect of print orientation and duration of ultraviolet curing on the dimensional accuracy of a 3-dimensionally printed orthodontic clear aligner design. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2020**, 158, 889-897	2.1	12
133	Three-Dimensional Printing for Craniofacial Bone Tissue Engineering. *Tissue Engineering - Part A*, **2020**, 26, 1303-1311	3.9	12
132	Comparison of automated grading of digital orthodontic models and hand grading of 3-dimensionally printed models. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2019**, 155, 886-890	2.1	3
131	Efficacy of the mini tooth positioner in improving orthodontic finishes. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2019**, 155, 844-850	2.1	
130	Principles of Regenerative Medicine of the Maxillomandibular Region **2019**, 3-11		
129	Effect of print layer height on the assessment of 3D-printed models. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2019**, 156, 283-289	2.1	22
128	The Future of Bioengineering for Head and Neck Reconstruction: The Customized Free Flap **2019**, 269-278		

127	Development and Characterization of a Rabbit Model of Compromised Maxillofacial Wound Healing. *Tissue Engineering - Part C: Methods*, **2019**, 25, 160-167	2.9	5
126	Emerging applications of 3D printing in nasoalveolar molding therapy: a narrative review. *Journal of 3D Printing in Medicine*, **2019**, 3, 195-208	1.5	
125	Cell Surface Interactions. *Learning Materials in Biosciences*, **2018**, 107-128	0.3	
124	Impact of orientation on dimensional accuracy of 3D-printed orthodontic models. *Journal of Clinical Orthodontics: JCO*, **2018**, 52, 13-20	0.2	
123	Tissue Engineered Prevascularized Bone and Soft Tissue Flaps. *Oral and Maxillofacial Surgery Clinics of North America*, **2017**, 29, 63-73	3.4	11
122	Effect of print layer height and printer type on the accuracy of 3-dimensional printed orthodontic models. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2017**, 152, 557-565	2.1	63
121	Tissue Engineering for Orthodontists: The Transforming Science Simplified. *Seminars in Orthodontics*, **2017**, 23, 355-365	1.2	1
120	Accuracy and mechanical properties of orthodontic models printed 3-dimensionally from calcium sulfate before and after various postprinting treatments. *American Journal of Orthodontics and Dentofacial Orthopedics*, **2016**, 150, 1056-1062	2.1	14
119	Approaches for building bioactive elements into synthetic scaffolds for bone tissue engineering. *Journal of Materials Chemistry B*, **2016**, 4, 6773-6786	7.3	37
118	Autologously generated tissue-engineered bone flaps for reconstruction of large mandibular defects in an ovine model. *Tissue Engineering - Part A*, **2015**, 21, 1520-8	3.9	24
117	Biomaterials in Regenerative Medicine **2015**, 141-149		
116	Technical Report: Correlation Between the Repair of Cartilage and Subchondral Bone in an Osteochondral Defect Using Bilayered, Biodegradable Hydrogel Composites. *Tissue Engineering - Part C: Methods*, **2015**, 21, 1216-25	2.9	12
115	Novel applications of statins for bone regeneration. *National Science Review*, **2015**, 2, 85-99	10.8	56
114	Strategies for controlled delivery of biologics for cartilage repair. *Advanced Drug Delivery Reviews*, **2015**, 84, 123-34	18.5	82
113	Effects of Electron Beam Sterilization on Mechanical Properties of a Porous Polymethylmethacrylate Space Maintenance Device. *Journal of Medical Devices, Transactions of the ASME*, **2015**, 9,	1.3	3
112	Characterization of an injectable, degradable polymer for mechanical stabilization of mandibular fractures. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 529-38	3.5	5
111	Degradable, antibiotic releasing poly(propylene fumarate)-based constructs for craniofacial space maintenance applications. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 1485-97	5.4	8
110	Fabrication of cell-laden macroporous biodegradable hydrogels with tunable porosities and pore sizes. *Tissue Engineering - Part C: Methods*, **2015**, 21, 263-73	2.9	17

109	Tissue Engineering in Oral and Maxillofacial Surgery **2014**, 1487-1506		4
108	Polymer Scaffold Fabrication **2014**, 423-440		3
107	TISSUE ENGINEERING PERFUSABLE CANCER MODELS. *Current Opinion in Chemical Engineering*, **2014**, 3, 112-117	5.4	11
106	Synthesis, physicochemical characterization, and cytocompatibility of bioresorbable, dual-gelling injectable hydrogels. *Biomacromolecules*, **2014**, 15, 132-42	6.9	46
105	Synthesis and characterization of injectable, biodegradable, phosphate-containing, chemically cross-linkable, thermoresponsive macromers for bone tissue engineering. *Biomacromolecules*, **2014** , 15, 1788-96	6.9	41
104	Direct and indirect co-culture of chondrocytes and mesenchymal stem cells for the generation of polymer/extracellular matrix hybrid constructs. *Acta Biomaterialia*, **2014**, 10, 1824-35	10.8	60
103	Mesenchymal stem cell and gelatin microparticle encapsulation in thermally and chemically gelling injectable hydrogels for tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1222-30	5.4	18
102	Articular chondrocyte redifferentiation in 3D co-cultures with mesenchymal stem cells. *Tissue Engineering - Part C: Methods*, **2014**, 20, 514-23	2.9	43
101	Osteochondral defect repair using bilayered hydrogels encapsulating both chondrogenically and osteogenically pre-differentiated mesenchymal stem cells in a rabbit model. *Osteoarthritis and Cartilage*, **2014**, 22, 1291-300	6.2	38
100	Articular chondrocytes and mesenchymal stem cells seeded on biodegradable scaffolds for the repair of cartilage in a rat osteochondral defect model. *Biomaterials*, **2014**, 35, 7460-9	15.6	108
99	Synthetic biodegradable hydrogel delivery of demineralized bone matrix for bone augmentation in a rat model. *Acta Biomaterialia*, **2014**, 10, 4574-4582	10.8	13
98	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. *Biomaterials*, **2014**, 35, 8829-8839	15.6	112
97	Enhancing chondrogenic phenotype for cartilage tissue engineering: monoculture and coculture of articular chondrocytes and mesenchymal stem cells. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 641-54	7.9	88
96	Chondrogenic phenotype of articular chondrocytes in monoculture and co-culture with mesenchymal stem cells in flow perfusion. *Tissue Engineering - Part A*, **2014**, 20, 2883-91	3.9	20
95	TGF-β-induced chondrogenesis in co-cultures of chondrocytes and mesenchymal stem cells on biodegradable scaffolds. *Biomaterials*, **2014**, 35, 123-32	15.6	68
94	Generation of osteochondral tissue constructs with chondrogenically and osteogenically predifferentiated mesenchymal stem cells encapsulated in bilayered hydrogels. *Acta Biomaterialia*, **2014**, 10, 1112-23	10.8	47
93	Effects of antibiotic physicochemical properties on their release kinetics from biodegradable polymer microparticles. *Pharmaceutical Research*, **2014**, 31, 3379-89	4.5	33
92	Phosphorous-containing polymers for regenerative medicine. *Biomedical Materials (Bristol)*, **2014**, 9, 025014	3.5	24

91	Osteochondral tissue regeneration through polymeric delivery of DNA encoding for the SOX trio and RUNX2. *Acta Biomaterialia*, **2014**, 10, 4103-12	10.8	43
90	Use of porous space maintainers in staged mandibular reconstruction. *Oral and Maxillofacial Surgery Clinics of North America*, **2014**, 26, 143-9	3.4	14
89	A factorial analysis of the combined effects of hydrogel fabrication parameters on the in vitro swelling and degradation of oligo(poly(ethylene glycol) fumarate) hydrogels. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 3477-87	5.4	25
88	Tissue response to composite hydrogels for vertical bone augmentation in the rat. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 2079-88	5.4	8
87	Open-source three-dimensional printing of biodegradable polymer scaffolds for tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4326-35	5.4	35
86	Cell-derived polymer/extracellular matrix composite scaffolds for cartilage regeneration, Part 2: construct devitalization and determination of chondroinductive capacity. *Tissue Engineering - Part C: Methods*, **2014**, 20, 358-72	2.9	36
85	Cell-derived polymer/extracellular matrix composite scaffolds for cartilage regeneration, Part 1: investigation of cocultures and seeding densities for improved extracellular matrix deposition. *Tissue Engineering - Part C: Methods*, **2014**, 20, 340-57	2.9	22
84	Modulation of polyplex release from biodegradable microparticles through poly(ethylenimine) modification and varying loading concentration. *Pharmaceutical Research*, **2014**, 31, 77-85	4.5	5
83	Flow perfusion co-culture of human mesenchymal stem cells and endothelial cells on biodegradable polymer scaffolds. *Annals of Biomedical Engineering*, **2014**, 42, 1381-90	4.7	16
82	Comparison of cell-loading methods in hydrogel systems. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 935-46	5.4	5
81	Biomaterials for tissue engineering. *Annals of Biomedical Engineering*, **2014**, 42, 323-37	4.7	115
80	Bone morphogenetic protein-2 release from composite hydrogels of oligo(poly(ethylene glycol) fumarate) and gelatin. *Pharmaceutical Research*, **2013**, 30, 2332-43	4.5	14
79	Perspectives on the prevention and treatment of infection for orthopedic tissue engineering applications. *Science Bulletin*, **2013**, 58, 4342-4348		15
78	Evaluation of antibiotic releasing porous polymethylmethacrylate space maintainers in an infected composite tissue defect model. *Acta Biomaterialia*, **2013**, 9, 8832-9	10.8	20
77	Hypoxia and flow perfusion modulate proliferation and gene expression of articular chondrocytes on porous scaffolds. *AICHE Journal*, **2013**, 59, 3158-3166	3.6	17
76	Development of an in vitro confinement test to predict the clinical handling of polymer-based injectable bone substitutes. *Polymer Testing*, **2013**, 32, 1379-1384	4.5	5
75	Tungsten disulfide nanotubes reinforced biodegradable polymers for bone tissue engineering. *Acta Biomaterialia*, **2013**, 9, 8365-73	10.8	114
74	Fabrication and characterization of multiscale electrospun scaffolds for cartilage regeneration. *Biomedical Materials (Bristol)*, **2013**, 8, 014103	3.5	55

73	Evolving strategies for preventing biofilm on implantable materials. *Materials Today*, **2013**, 16, 177-182	21.8	71
72	Subcutaneous tissue response and osteogenic performance of calcium phosphate nanoparticle-enriched hydrogels in the tibial medullary cavity of guinea pigs. *Acta Biomaterialia*, **2013**, 9, 5464-74	10.8	20
71	The effect of hypoxia on the chondrogenic differentiation of co-cultured articular chondrocytes and mesenchymal stem cells in scaffolds. *Biomaterials*, **2013**, 34, 4266-73	15.6	104
70	Winner of the 2013 Young Investigator Award for the Society for Biomaterials annual meeting and exposition, April 10-13, 2013, Boston, Massachusetts. Osteogenic differentiation of mesenchymal stem cells on demineralized and devitalized biodegradable polymer and extracellular matrix hybrid constructs. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 1225-36	5.4	13
69	Two-dimensional nanostructure-reinforced biodegradable polymeric nanocomposites for bone tissue engineering. *Biomacromolecules*, **2013**, 14, 900-9	6.9	220
68	Perspectives on the interface of drug delivery and tissue engineering. *Advanced Drug Delivery Reviews*, **2013**, 65, 89-92	18.5	35
67	Osteochondral tissue regeneration using a bilayered composite hydrogel with modulating dual growth factor release kinetics in a rabbit model. *Journal of Controlled Release*, **2013**, 168, 166-78	11.7	109
66	Effect of temporally patterned TNF-□ delivery on in vitro osteogenic differentiation of mesenchymal stem cells cultured on biodegradable polymer scaffolds. *Journal of Biomaterials Science, Polymer Edition*, **2013**, 24, 1794-813	3.5	19
65	Enhanced osteogenesis in cocultures with human mesenchymal stem cells and endothelial cells on polymeric microfiber scaffolds. *Tissue Engineering - Part A*, **2013**, 19, 2565-76	3.9	44
64	In vitro and in vivo enzyme-mediated biomineralization of oligo(poly(ethylene glycol) fumarate hydrogels. *Macromolecular Bioscience*, **2013**, 13, 777-88	5.5	8
63	Characterization of porous polymethylmethacrylate space maintainers for craniofacial reconstruction. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 813-25	3.5	27
62	Modeling Ewing sarcoma tumors in vitro with 3D scaffolds. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6500-5	11.5	180
61	Fiber-Based Composite Tissue Engineering Scaffolds for Drug Delivery. *Israel Journal of Chemistry*, **2013**, 53, n/a-n/a	3.4	4
60	Scaffold/Extracellular matrix hybrid constructs for bone-tissue engineering. *Advanced Healthcare Materials*, **2013**, 2, 13-24	10.1	68
59	Enhanced chondrogenesis in co-cultures with articular chondrocytes and mesenchymal stem cells. *Biomaterials*, **2012**, 33, 6362-9	15.6	150
58	Injectable biodegradable hydrogels for embryonic stem cell transplantation: improved cardiac remodelling and function of myocardial infarction. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 1310-20	5.6	53
57	Gradual pore formation in natural origin scaffolds throughout subcutaneous implantation. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 599-612	5.4	15
56	In situ formation of porous space maintainers in a composite tissue defect. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 827-33	5.4	19

55	Engineering complex tissues. *Science Translational Medicine*, **2012**, 4, 160rv12	17.5	364
54	Intra-articular controlled release of anti-inflammatory siRNA with biodegradable polymer microparticles ameliorates temporomandibular joint inflammation. *Acta Biomaterialia*, **2012**, 8, 3552-60	10.8	26
53	Engineering a polymeric gene delivery vector based on poly(ethylenimine) and hyaluronic acid. *Biomacromolecules*, **2012**, 13, 1429-37	6.9	46
52	Structure-property evaluation of thermally and chemically gelling injectable hydrogels for tissue engineering. *Biomacromolecules*, **2012**, 13, 2821-30	6.9	42
51	Synthesis of oligo(poly(ethylene glycol) fumarate). *Nature Protocols*, **2012**, 7, 1219-27	18.8	68
50	Design of a high-throughput flow perfusion bioreactor system for tissue engineering. *Tissue Engineering - Part C: Methods*, **2012**, 18, 817-20	2.9	23
49	Evaluation of bone regeneration using the rat critical size calvarial defect. *Nature Protocols*, **2012**, 7, 1918829	18.8	388
48	Synthesis and characterization of thermally and chemically gelling injectable hydrogels for tissue engineering. *Biomacromolecules*, **2012**, 13, 1908-15	6.9	62
47	Strategies for controlled delivery of growth factors and cells for bone regeneration. *Advanced Drug Delivery Reviews*, **2012**, 64, 1292-309	18.5	470
46	Development of a biodegradable bone cement for craniofacial applications. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 2252-9	5.4	18
45	Building bridges: leveraging interdisciplinary collaborations in the development of biomaterials to meet clinical needs. *Advanced Materials*, **2012**, 24, 4995-5013	24	62
44	Harnessing cell□biomaterial interactions for osteochondral tissue regeneration. *Advances in Biochemical Engineering/Biotechnology*, **2012**, 126, 67-104	1.7	3
43	Imaging of poly(□hydroxy-ester) scaffolds with X-ray phase-contrast microcomputed tomography. *Tissue Engineering - Part C: Methods*, **2012**, 18, 859-65	2.9	16
42	Harnessing and modulating inflammation in strategies for bone regeneration. *Tissue Engineering - Part B: Reviews*, **2011**, 17, 393-402	7.9	148
41	Antibiotic-releasing porous polymethylmethacrylate/gelatin/antibiotic constructs for craniofacial tissue engineering. *Journal of Controlled Release*, **2011**, 152, 196-205	11.7	64
40	Infection and tissue engineering in segmental bone defects--a mini review. *Current Opinion in Biotechnology*, **2011**, 22, 721-5	11.4	62
39	Polymeric nanofibers in tissue engineering. *Tissue Engineering - Part B: Reviews*, **2011**, 17, 349-64	7.9	236
38	Biodegradable composite scaffolds incorporating an intramedullary rod and delivering bone morphogenetic protein-2 for stabilization and bone regeneration in segmental long bone defects. *Acta Biomaterialia*, **2011**, 7, 3627-37	10.8	57

37	Controlled release of anti-inflammatory siRNA from biodegradable polymeric microparticles intended for intra-articular delivery to the temporomandibular joint. *Pharmaceutical Research*, **2011**, 28, 1370-84	4.5	23
36	Investigating the role of hematopoietic stem and progenitor cells in regulating the osteogenic differentiation of mesenchymal stem cells in vitro. *Journal of Orthopaedic Research*, **2011**, 29, 1544-53	3.8	24
35	Chondrogenic differentiation of neonatal human dermal fibroblasts encapsulated in alginate beads with hydrostatic compression under hypoxic conditions in the presence of bone morphogenetic protein-2. *Journal of Biomedical Materials Research - Part A*, **2011**, 98, 412-24	5.4	21
34	Protein and mineral composition of osteogenic extracellular matrix constructs generated with a flow perfusion bioreactor. *Biomacromolecules*, **2011**, 12, 4204-12	6.9	36
33	Thermoresponsive, in situ cross-linkable hydrogels based on N-isopropylacrylamide: fabrication, characterization and mesenchymal stem cell encapsulation. *Acta Biomaterialia*, **2011**, 7, 1460-7	10.8	59
32	Delivery of plasmid DNA encoding bone morphogenetic protein-2 with a biodegradable branched polycationic polymer in a critical-size rat cranial defect model. *Tissue Engineering - Part A*, **2011**, 17, 751-63	3.9	37
31	Evaluation of soft tissue coverage over porous polymethylmethacrylate space maintainers within nonhealing alveolar bone defects. *Tissue Engineering - Part C: Methods*, **2010**, 16, 1427-38	2.9	30
30	Responsive and in situ-forming chitosan scaffolds for bone tissue engineering applications: an overview of the last decade. *Journal of Materials Chemistry*, **2010**, 20, 1638-1645		70
29	Engineering tumors: a tissue engineering perspective in cancer biology. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 351-9	7.9	138
28	Osteogenic differentiation of mesenchymal stem cells on pregenerated extracellular matrix scaffolds in the absence of osteogenic cell culture supplements. *Tissue Engineering - Part A*, **2010**, 16, 431-40	3.9	158
27	Uncultured marrow mononuclear cells delivered within fibrin glue hydrogels to porous scaffolds enhance bone regeneration within critical-sized rat cranial defects. *Tissue Engineering - Part A*, **2010**, 16, 3555-68	3.9	57
26	Altering amine basicities in biodegradable branched polycationic polymers for nonviral gene delivery. *Biomacromolecules*, **2010**, 11, 600-9	6.9	19
25	Adapting biodegradable oligo(poly(ethylene glycol) fumarate) hydrogels for pigment epithelial cell encapsulation and lens regeneration. *Tissue Engineering - Part C: Methods*, **2010**, 16, 261-7	2.9	7
24	Repair of osteochondral defects with biodegradable hydrogel composites encapsulating marrow mesenchymal stem cells in a rabbit model. *Acta Biomaterialia*, **2010**, 6, 39-47	10.8	144
23	Antibiotic-releasing porous polymethylmethacrylate constructs for osseous space maintenance and infection control. *Biomaterials*, **2010**, 31, 4146-56	15.6	92
22	Regulated non-viral gene delivery from coaxial electrospun fiber mesh scaffolds. *Journal of Controlled Release*, **2010**, 143, 95-103	11.7	167
21	Combination of enzymes and flow perfusion conditions improves osteogenic differentiation of bone marrow stromal cells cultured upon starch/poly(epsilon-caprolactone) fiber meshes. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1061-9	5.4	5
20	Bioactive polymer/extracellular matrix scaffolds fabricated with a flow perfusion bioreactor for cartilage tissue engineering. *Biomaterials*, **2010**, 31, 8911-20	15.6	116

19	Modulation of osteogenic properties of biodegradable polymer/extracellular matrix scaffolds generated with a flow perfusion bioreactor. *Acta Biomaterialia*, **2010**, 6, 2386-93	10.8	60
18	Effects of TGF-beta3 and preculture period of osteogenic cells on the chondrogenic differentiation of rabbit marrow mesenchymal stem cells encapsulated in a bilayered hydrogel composite. *Acta Biomaterialia*, **2010**, 6, 2920-31	10.8	57
17	Shaping the micromechanical behavior of multi-phase composites for bone tissue engineering. *Acta Biomaterialia*, **2010**, 6, 3448-56	10.8	16
16	The role of lipase and alpha-amylase in the degradation of starch/poly(epsilon-caprolactone) fiber meshes and the osteogenic differentiation of cultured marrow stromal cells. *Tissue Engineering - Part A*, **2009**, 15, 295-305	3.9	44
15	Natural stimulus responsive scaffolds/cells for bone tissue engineering: influence of lysozyme upon scaffold degradation and osteogenic differentiation of cultured marrow stromal cells induced by CaP coatings. *Tissue Engineering - Part A*, **2009**, 15, 1953-63	3.9	31
14	Analysis of the osteoinductive capacity and angiogenicity of an in vitro generated extracellular matrix. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 295-303	5.4	38
13	In vitro generation of an osteochondral construct using injectable hydrogel composites encapsulating rabbit marrow mesenchymal stem cells. *Biomaterials*, **2009**, 30, 2741-52	15.6	100
12	Synthesis of poly(propylene fumarate). *Nature Protocols*, **2009**, 4, 518-25	18.8	156
11	Effect of swelling ratio of injectable hydrogel composites on chondrogenic differentiation of encapsulated rabbit marrow mesenchymal stem cells in vitro. *Biomacromolecules*, **2009**, 10, 541-6	6.9	256
10	Fabrication of nonwoven coaxial fiber meshes by electrospinning. *Tissue Engineering - Part C: Methods*, **2009**, 15, 333-344	2.9	52
9	Biodegradable branched polycationic polymers with varying hydrophilic spacers for nonviral gene delivery. *Biomacromolecules*, **2009**, 10, 2436-45	6.9	19
8	Toward Osteogenic Differentiation of Marrow Stromal Cells and In Vitro Production of Mineralized Extracellular Matrix onto Natural Scaffolds **2009**, 263-281		1
7	The influence of an in vitro generated bone-like extracellular matrix on osteoblastic gene expression of marrow stromal cells. *Biomaterials*, **2008**, 29, 2729-39	15.6	133
6	Evaluation of bone regeneration by DNA release from composites of oligo(poly(ethylene glycol) fumarate) and cationized gelatin microspheres in a critical-sized calvarial defect. *Journal of Biomedical Materials Research - Part A*, **2006**, 78, 335-42	5.4	35
5	Characterization of DNA release from composites of oligo(poly(ethylene glycol) fumarate) and cationized gelatin microspheres in vitro. *Journal of Biomedical Materials Research - Part A*, **2006**, 78, 823-35	5.4	30
4	In vitro release of plasmid DNA from oligo(poly(ethylene glycol) fumarate) hydrogels. *Journal of Controlled Release*, **2005**, 104, 521-39	11.7	57
3	In vivo release of plasmid DNA from composites of oligo(poly(ethylene glycol)fumarate) and cationized gelatin microspheres. *Journal of Controlled Release*, **2005**, 107, 547-61	11.7	56
2	Mechanical properties of myxomatous mitral valves. *Journal of Thoracic and Cardiovascular Surgery*, **2001**, 122, 955-62	1.5	105

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