

# F Kurtis Kasper

## List of Publications by Citations

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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	Strategies for controlled delivery of growth factors and cells for bone regeneration. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 1292-309	18.5	470
143	Evaluation of bone regeneration using the rat critical size calvarial defect. <i>Nature Protocols</i> , <b>2012</b> , 7, 1918-29	18.2	388
142	Engineering complex tissues. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 160rv12	17.5	364
141	Effect of swelling ratio of injectable hydrogel composites on chondrogenic differentiation of encapsulated rabbit marrow mesenchymal stem cells in vitro. <i>Biomacromolecules</i> , <b>2009</b> , 10, 541-6	6.9	256
140	Polymeric nanofibers in tissue engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2011</b> , 17, 349-64	7.9	236
139	Two-dimensional nanostructure-reinforced biodegradable polymeric nanocomposites for bone tissue engineering. <i>Biomacromolecules</i> , <b>2013</b> , 14, 900-9	6.9	220
138	Modeling Ewing sarcoma tumors in vitro with 3D scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6500-5	11.5	180
137	Regulated non-viral gene delivery from coaxial electrospun fiber mesh scaffolds. <i>Journal of Controlled Release</i> , <b>2010</b> , 143, 95-103	11.7	167
136	Osteogenic differentiation of mesenchymal stem cells on pregenerated extracellular matrix scaffolds in the absence of osteogenic cell culture supplements. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 431-40	3.9	158
135	Synthesis of poly(propylene fumarate). <i>Nature Protocols</i> , <b>2009</b> , 4, 518-25	18.8	156
134	Enhanced chondrogenesis in co-cultures with articular chondrocytes and mesenchymal stem cells. <i>Biomaterials</i> , <b>2012</b> , 33, 6362-9	15.6	150
133	Harnessing and modulating inflammation in strategies for bone regeneration. <i>Tissue Engineering - Part B: Reviews</i> , <b>2011</b> , 17, 393-402	7.9	148
132	Repair of osteochondral defects with biodegradable hydrogel composites encapsulating marrow mesenchymal stem cells in a rabbit model. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 39-47	10.8	144
131	Engineering tumors: a tissue engineering perspective in cancer biology. <i>Tissue Engineering - Part B: Reviews</i> , <b>2010</b> , 16, 351-9	7.9	138
130	The influence of an in vitro generated bone-like extracellular matrix on osteoblastic gene expression of marrow stromal cells. <i>Biomaterials</i> , <b>2008</b> , 29, 2729-39	15.6	133
129	Bioactive polymer/extracellular matrix scaffolds fabricated with a flow perfusion bioreactor for cartilage tissue engineering. <i>Biomaterials</i> , <b>2010</b> , 31, 8911-20	15.6	116
128	Biomaterials for tissue engineering. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 323-37	4.7	115

127	Tungsten disulfide nanotubes reinforced biodegradable polymers for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8365-73	10.8	114
126	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. <i>Biomaterials</i> , <b>2014</b> , 35, 8829-8839	15.6	112
125	Osteochondral tissue regeneration using a bilayered composite hydrogel with modulating dual growth factor release kinetics in a rabbit model. <i>Journal of Controlled Release</i> , <b>2013</b> , 168, 166-78	11.7	109
124	Articular chondrocytes and mesenchymal stem cells seeded on biodegradable scaffolds for the repair of cartilage in a rat osteochondral defect model. <i>Biomaterials</i> , <b>2014</b> , 35, 7460-9	15.6	108
123	Mechanical properties of myxomatous mitral valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2001</b> , 122, 955-62	1.5	105
122	The effect of hypoxia on the chondrogenic differentiation of co-cultured articular chondrocytes and mesenchymal stem cells in scaffolds. <i>Biomaterials</i> , <b>2013</b> , 34, 4266-73	15.6	104
121	In vitro generation of an osteochondral construct using injectable hydrogel composites encapsulating rabbit marrow mesenchymal stem cells. <i>Biomaterials</i> , <b>2009</b> , 30, 2741-52	15.6	100
120	Antibiotic-releasing porous polymethylmethacrylate constructs for osseous space maintenance and infection control. <i>Biomaterials</i> , <b>2010</b> , 31, 4146-56	15.6	92
119	Enhancing chondrogenic phenotype for cartilage tissue engineering: monoculture and coculture of articular chondrocytes and mesenchymal stem cells. <i>Tissue Engineering - Part B: Reviews</i> , <b>2014</b> , 20, 641-54	7.9	88
118	Strategies for controlled delivery of biologics for cartilage repair. <i>Advanced Drug Delivery Reviews</i> , <b>2015</b> , 84, 123-34	18.5	82
117	Evolving strategies for preventing biofilm on implantable materials. <i>Materials Today</i> , <b>2013</b> , 16, 177-182	21.8	71
116	Responsive and in situ-forming chitosan scaffolds for bone tissue engineering applications: an overview of the last decade. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1638-1645		70
115	TGF- $\beta$ -induced chondrogenesis in co-cultures of chondrocytes and mesenchymal stem cells on biodegradable scaffolds. <i>Biomaterials</i> , <b>2014</b> , 35, 123-32	15.6	68
114	Synthesis of oligo(poly(ethylene glycol) fumarate). <i>Nature Protocols</i> , <b>2012</b> , 7, 1219-27	18.8	68
113	Scaffold/Extracellular matrix hybrid constructs for bone-tissue engineering. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 13-24	10.1	68
112	Antibiotic-releasing porous polymethylmethacrylate/gelatin/antibiotic constructs for craniofacial tissue engineering. <i>Journal of Controlled Release</i> , <b>2011</b> , 152, 196-205	11.7	64
111	Effect of print layer height and printer type on the accuracy of 3-dimensional printed orthodontic models. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2017</b> , 152, 557-565	2.1	63
110	Synthesis and characterization of thermally and chemically gelling injectable hydrogels for tissue engineering. <i>Biomacromolecules</i> , <b>2012</b> , 13, 1908-15	6.9	62

109	Building bridges: leveraging interdisciplinary collaborations in the development of biomaterials to meet clinical needs. <i>Advanced Materials</i> , <b>2012</b> , 24, 4995-5013	24	62
108	Infection and tissue engineering in segmental bone defects--a mini review. <i>Current Opinion in Biotechnology</i> , <b>2011</b> , 22, 721-5	11.4	62
107	Direct and indirect co-culture of chondrocytes and mesenchymal stem cells for the generation of polymer/extracellular matrix hybrid constructs. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1824-35	10.8	60
106	Modulation of osteogenic properties of biodegradable polymer/extracellular matrix scaffolds generated with a flow perfusion bioreactor. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2386-93	10.8	60
105	Thermoresponsive, in situ cross-linkable hydrogels based on N-isopropylacrylamide: fabrication, characterization and mesenchymal stem cell encapsulation. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 1460-7	10.8	59
104	Biodegradable composite scaffolds incorporating an intramedullary rod and delivering bone morphogenetic protein-2 for stabilization and bone regeneration in segmental long bone defects. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 3627-37	10.8	57
103	Uncultured marrow mononuclear cells delivered within fibrin glue hydrogels to porous scaffolds enhance bone regeneration within critical-sized rat cranial defects. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 3555-68	3.9	57
102	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. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2920-31	10.8	57
101	In vitro release of plasmid DNA from oligo(poly(ethylene glycol) fumarate) hydrogels. <i>Journal of Controlled Release</i> , <b>2005</b> , 104, 521-39	11.7	57
100	Novel applications of statins for bone regeneration. <i>National Science Review</i> , <b>2015</b> , 2, 85-99	10.8	56
99	In vivo release of plasmid DNA from composites of oligo(poly(ethylene glycol)fumarate) and cationized gelatin microspheres. <i>Journal of Controlled Release</i> , <b>2005</b> , 107, 547-61	11.7	56
98	Fabrication and characterization of multiscale electrospun scaffolds for cartilage regeneration. <i>Biomedical Materials (Bristol)</i> , <b>2013</b> , 8, 014103	3.5	55
97	Injectable biodegradable hydrogels for embryonic stem cell transplantation: improved cardiac remodelling and function of myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , <b>2012</b> , 16, 1310-20	5.6	53
96	Fabrication of nonwoven coaxial fiber meshes by electrospinning. <i>Tissue Engineering - Part C: Methods</i> , <b>2009</b> , 15, 333-344	2.9	52
95	Generation of osteochondral tissue constructs with chondrogenically and osteogenically predifferentiated mesenchymal stem cells encapsulated in bilayered hydrogels. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1112-23	10.8	47
94	Synthesis, physicochemical characterization, and cytocompatibility of bioresorbable, dual-gelling injectable hydrogels. <i>Biomacromolecules</i> , <b>2014</b> , 15, 132-42	6.9	46
93	Engineering a polymeric gene delivery vector based on poly(ethylenimine) and hyaluronic acid. <i>Biomacromolecules</i> , <b>2012</b> , 13, 1429-37	6.9	46
92	Enhanced osteogenesis in cocultures with human mesenchymal stem cells and endothelial cells on polymeric microfiber scaffolds. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2565-76	3.9	44

91	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. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 295-305	3.9	44
90	Articular chondrocyte redifferentiation in 3D co-cultures with mesenchymal stem cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 514-23	2.9	43
89	Osteochondral tissue regeneration through polymeric delivery of DNA encoding for the SOX trio and RUNX2. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4103-12	10.8	43
88	Structure-property evaluation of thermally and chemically gelling injectable hydrogels for tissue engineering. <i>Biomacromolecules</i> , <b>2012</b> , 13, 2821-30	6.9	42
87	Synthesis and characterization of injectable, biodegradable, phosphate-containing, chemically cross-linkable, thermoresponsive macromers for bone tissue engineering. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1788-96	6.9	41
86	Osteochondral defect repair using bilayered hydrogels encapsulating both chondrogenically and osteogenically pre-differentiated mesenchymal stem cells in a rabbit model. <i>Osteoarthritis and Cartilage</i> , <b>2014</b> , 22, 1291-300	6.2	38
85	Analysis of the osteoinductive capacity and angiogenicity of an in vitro generated extracellular matrix. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 295-303	5.4	38
84	Delivery of plasmid DNA encoding bone morphogenetic protein-2 with a biodegradable branched polycationic polymer in a critical-size rat cranial defect model. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 751-63	3.9	37
83	Approaches for building bioactive elements into synthetic scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 6773-6786	7.3	37
82	Cell-derived polymer/extracellular matrix composite scaffolds for cartilage regeneration, Part 2: construct devitalization and determination of chondroinductive capacity. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 358-72	2.9	36
81	Protein and mineral composition of osteogenic extracellular matrix constructs generated with a flow perfusion bioreactor. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4204-12	6.9	36
80	Open-source three-dimensional printing of biodegradable polymer scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 4326-35	5.4	35
79	Perspectives on the interface of drug delivery and tissue engineering. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 89-92	18.5	35
78	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. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 78, 335-42	5.4	35
77	Effects of antibiotic physicochemical properties on their release kinetics from biodegradable polymer microparticles. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 3379-89	4.5	33
76	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. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 1953-63	3.9	31
75	Evaluation of soft tissue coverage over porous polymethylmethacrylate space maintainers within nonhealing alveolar bone defects. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 1427-38	2.9	30
74	Characterization of DNA release from composites of oligo(poly(ethylene glycol) fumarate) and cationized gelatin microspheres in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 78, 823-35	5.4	30

73	Characterization of porous polymethylmethacrylate space maintainers for craniofacial reconstruction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2013</b> , 101, 813-25	3.5	27
72	Intra-articular controlled release of anti-inflammatory siRNA with biodegradable polymer microparticles ameliorates temporomandibular joint inflammation. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3552-60	10.8	26
71	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. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 3477-87	5.4	25
70	Autologously generated tissue-engineered bone flaps for reconstruction of large mandibular defects in an ovine model. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1520-8	3.9	24
69	Phosphorous-containing polymers for regenerative medicine. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 0250-54	9.5	24
68	Investigating the role of hematopoietic stem and progenitor cells in regulating the osteogenic differentiation of mesenchymal stem cells in vitro. <i>Journal of Orthopaedic Research</i> , <b>2011</b> , 29, 1544-53	3.8	24
67	Design of a high-throughput flow perfusion bioreactor system for tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 817-20	2.9	23
66	Controlled release of anti-inflammatory siRNA from biodegradable polymeric microparticles intended for intra-articular delivery to the temporomandibular joint. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 1370-84	4.5	23
65	Effect of print layer height on the assessment of 3D-printed models. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2019</b> , 156, 283-289	2.1	22
64	Cell-derived polymer/extracellular matrix composite scaffolds for cartilage regeneration, Part 1: investigation of cocultures and seeding densities for improved extracellular matrix deposition. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 340-57	2.9	22
63	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. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 98, 412-24	5.4	21
62	Chondrogenic phenotype of articular chondrocytes in monoculture and co-culture with mesenchymal stem cells in flow perfusion. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2883-91	3.9	20
61	Evaluation of antibiotic releasing porous polymethylmethacrylate space maintainers in an infected composite tissue defect model. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8832-9	10.8	20
60	Subcutaneous tissue response and osteogenic performance of calcium phosphate nanoparticle-enriched hydrogels in the tibial medullary cavity of guinea pigs. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5464-74	10.8	20
59	In situ formation of porous space maintainers in a composite tissue defect. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 827-33	5.4	19
58	Effect of temporally patterned TNF- $\beta$ delivery on in vitro osteogenic differentiation of mesenchymal stem cells cultured on biodegradable polymer scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2013</b> , 24, 1794-813	3.5	19
57	Altering amine basicities in biodegradable branched polycationic polymers for nonviral gene delivery. <i>Biomacromolecules</i> , <b>2010</b> , 11, 600-9	6.9	19
56	Biodegradable branched polycationic polymers with varying hydrophilic spacers for nonviral gene delivery. <i>Biomacromolecules</i> , <b>2009</b> , 10, 2436-45	6.9	19

55	Mesenchymal stem cell and gelatin microparticle encapsulation in thermally and chemically gelling injectable hydrogels for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 1222-30	5.4	18
54	Development of a biodegradable bone cement for craniofacial applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 2252-9	5.4	18
53	Hypoxia and flow perfusion modulate proliferation and gene expression of articular chondrocytes on porous scaffolds. <i>AICHE Journal</i> , <b>2013</b> , 59, 3158-3166	3.6	17
52	Fabrication of cell-laden macroporous biodegradable hydrogels with tunable porosities and pore sizes. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 263-73	2.9	17
51	Flow perfusion co-culture of human mesenchymal stem cells and endothelial cells on biodegradable polymer scaffolds. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 1381-90	4.7	16
50	Imaging of poly(β-hydroxy-ester) scaffolds with X-ray phase-contrast microcomputed tomography. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 859-65	2.9	16
49	Shaping the micromechanical behavior of multi-phase composites for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3448-56	10.8	16
48	Gradual pore formation in natural origin scaffolds throughout subcutaneous implantation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 599-612	5.4	15
47	Perspectives on the prevention and treatment of infection for orthopedic tissue engineering applications. <i>Science Bulletin</i> , <b>2013</b> , 58, 4342-4348		15
46	Analysis of the thickness of 3-dimensional-printed orthodontic aligners. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2020</b> , 158, e91-e98	2.1	14
45	Use of porous space maintainers in staged mandibular reconstruction. <i>Oral and Maxillofacial Surgery Clinics of North America</i> , <b>2014</b> , 26, 143-9	3.4	14
44	Bone morphogenetic protein-2 release from composite hydrogels of oligo(poly(ethylene glycol) fumarate) and gelatin. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 2332-43	4.5	14
43	Accuracy and mechanical properties of orthodontic models printed 3-dimensionally from calcium sulfate before and after various postprinting treatments. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2016</b> , 150, 1056-1062	2.1	14
42	Synthetic biodegradable hydrogel delivery of demineralized bone matrix for bone augmentation in a rat model. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4574-4582	10.8	13
41	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. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 1225-36	5.4	13
40	Technical Report: Correlation Between the Repair of Cartilage and Subchondral Bone in an Osteochondral Defect Using Bilayered, Biodegradable Hydrogel Composites. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 1216-25	2.9	12
39	Effect of print orientation and duration of ultraviolet curing on the dimensional accuracy of a 3-dimensionally printed orthodontic clear aligner design. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2020</b> , 158, 889-897	2.1	12
38	Three-Dimensional Printing for Craniofacial Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 1303-1311	3.9	12

37	Tissue Engineered Prevascularized Bone and Soft Tissue Flaps. <i>Oral and Maxillofacial Surgery Clinics of North America</i> , <b>2017</b> , 29, 63-73	3.4	11
36	TISSUE ENGINEERING PERFUSABLE CANCER MODELS. <i>Current Opinion in Chemical Engineering</i> , <b>2014</b> , 3, 112-117	5.4	11
35	Degradable, antibiotic releasing poly(propylene fumarate)-based constructs for craniofacial space maintenance applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1485-97	5.4	8
34	Tissue response to composite hydrogels for vertical bone augmentation in the rat. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 2079-88	5.4	8
33	In vitro and in vivo enzyme-mediated biomineralization of oligo(poly(ethylene glycol) fumarate hydrogels. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 777-88	5.5	8
32	Adapting biodegradable oligo(poly(ethylene glycol) fumarate) hydrogels for pigment epithelial cell encapsulation and lens regeneration. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 261-7	2.9	7
31	Development of an in vitro confinement test to predict the clinical handling of polymer-based injectable bone substitutes. <i>Polymer Testing</i> , <b>2013</b> , 32, 1379-1384	4.5	5
30	Characterization of an injectable, degradable polymer for mechanical stabilization of mandibular fractures. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 529-38	3.5	5
29	Modulation of polyplex release from biodegradable microparticles through poly(ethylenimine) modification and varying loading concentration. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 77-85	4.5	5
28	Comparison of cell-loading methods in hydrogel systems. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 935-46	5.4	5
27	Combination of enzymes and flow perfusion conditions improves osteogenic differentiation of bone marrow stromal cells cultured upon starch/poly(epsilon-caprolactone) fiber meshes. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 1061-9	5.4	5
26	Development and Characterization of a Rabbit Model of Compromised Maxillofacial Wound Healing. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 160-167	2.9	5
25	Tissue Engineering in Oral and Maxillofacial Surgery <b>2014</b> , 1487-1506		4
24	Fiber-Based Composite Tissue Engineering Scaffolds for Drug Delivery. <i>Israel Journal of Chemistry</i> , <b>2013</b> , 53, n/a-n/a	3.4	4
23	Evaluation of the dimensional accuracy of thermoformed appliances taken from 3D printed models with varied shell thicknesses: An in vitro study. <i>International Orthodontics</i> , <b>2021</b> , 19, 137-146	0.9	4
22	Comparison of automated grading of digital orthodontic models and hand grading of 3-dimensionally printed models. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2019</b> , 155, 886-890	2.1	3
21	Polymer Scaffold Fabrication <b>2014</b> , 423-440		3
20	Effects of Electron Beam Sterilization on Mechanical Properties of a Porous Polymethylmethacrylate Space Maintenance Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2015</b> , 9,	1.3	3



19	Harnessing cellBiomaterial interactions for osteochondral tissue regeneration. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2012</b> , 126, 67-104	1.7	3
18	Colour stability of 3D-printed resin orthodontic brackets. <i>Journal of Orthodontics</i> , <b>2021</b> , 48, 241-249	1.6	3
17	Wear Resistance of 3D Printed and Prefabricated Denture Teeth Opposing Zirconia. <i>Journal of Prosthodontics</i> , <b>2021</b> , 30, 804-810	3.9	3
16	Cephalometric evaluation of changes in vertical dimension and molar position in adult non-extraction treatment with clear aligners and traditional fixed appliances. <i>Dental Press Journal of Orthodontics</i> , <b>2021</b> , 26, e2119360	1.3	2
15	Effect of build angle and layer height on the accuracy of 3-dimensional printed dental models. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2021</b> , 160, 451-458.e2	2.1	2
14	Tissue Engineering for Orthodontists: The Transforming Science Simplified. <i>Seminars in Orthodontics</i> , <b>2017</b> , 23, 355-365	1.2	1
13	Bringing hydrogel-based craniofacial therapies to the clinic. <i>Acta Biomaterialia</i> , <b>2021</b> , 138, 1-1	10.8	1
12	Effect of print orientation on the dimensional accuracy of orthodontic aligners printed 3-dimensionally. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2021</b> , 160, 732-742.e1	2.1	1
11	Toward Osteogenic Differentiation of Marrow Stromal Cells and In Vitro Production of Mineralized Extracellular Matrix onto Natural Scaffolds <b>2009</b> , 263-281		1
10	Tissue engineering in oral and maxillofacial surgery <b>2020</b> , 1201-1220		0
9	Evaluation of current additive manufacturing systems for orthodontic 3-dimensional printing. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2021</b> , 160, 594-602	2.1	0
8	Efficacy of the mini tooth positioner in improving orthodontic finishes. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2019</b> , 155, 844-850	2.1	
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0.2