

Johnny Lam

List of Publications by Year in descending order

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33
papers

1,248
citations

471509

17
h-index

434195

31
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all docs

33
docs citations

33
times ranked

2073
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. <i>Biomaterials</i> , 2014, 35, 8829-8839.	11.4	136
2	Articular chondrocytes and mesenchymal stem cells seeded on biodegradable scaffolds for the repair of cartilage in a rat osteochondral defect model. <i>Biomaterials</i> , 2014, 35, 7460-7469.	11.4	127
3	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> , 2013, 168, 166-178.	9.9	122
4	Strategies for controlled delivery of biologics for cartilage repair. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 123-134.	13.7	91
5	Injectable OPF/graphene oxide hydrogels provide mechanical support and enhance cell electrical signaling after implantation into myocardial infarct. <i>Theranostics</i> , 2018, 8, 3317-3330.	10.0	86
6	Modular, tissue-specific, and biodegradable hydrogel cross-linkers for tissue engineering. <i>Science Advances</i> , 2019, 5, eaaw7396.	10.3	80
7	Evaluation of cell-laden polyelectrolyte hydrogels incorporating poly(L-Lysine) for applications in cartilage tissue engineering. <i>Biomaterials</i> , 2016, 83, 332-346.	11.4	78
8	Generation of osteochondral tissue constructs with chondrogenically and osteogenically pre-differentiated mesenchymal stem cells encapsulated in bilayered hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 1112-1123.	8.3	54
9	Osteochondral tissue regeneration through polymeric delivery of DNA encoding for the SOX trio and RUNX2. <i>Acta Biomaterialia</i> , 2014, 10, 4103-4112.	8.3	49
10	Functionally-Relevant Morphological Profiling: A Tool to Assess Cellular Heterogeneity. <i>Trends in Biotechnology</i> , 2018, 36, 105-118.	9.3	49
11	Vinculin Activation Is Necessary for Complete Talin Binding. <i>Biophysical Journal</i> , 2011, 100, 332-340.	0.5	45
12	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> , 2014, 22, 1291-1300.	1.3	45
13	Autologously Generated Tissue-Engineered Bone Flaps for Reconstruction of Large Mandibular Defects in an Ovine Model. <i>Tissue Engineering - Part A</i> , 2015, 21, 1520-1528.	3.1	33
14	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> , 2014, 102, 3477-3487.	4.0	29
15	Functional Profiling of Chondrogenically Induced Multipotent Stromal Cell Aggregates Reveals Transcriptomic and Emergent Morphological Phenotypes Predictive of Differentiation Capacity. <i>Stem Cells Translational Medicine</i> , 2018, 7, 664-675.	3.3	23
16	Bilayered, peptide-biofunctionalized hydrogels for in vivo osteochondral tissue repair. <i>Acta Biomaterialia</i> , 2021, 128, 120-129.	8.3	21
17	Fabrication of Cell-Laden Macroporous Biodegradable Hydrogels with Tunable Porosities and Pore Sizes. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 263-273.	2.1	20
18	Synthetic biodegradable hydrogel delivery of demineralized bone matrix for bone augmentation in a rat model. <i>Acta Biomaterialia</i> , 2014, 10, 4574-4582.	8.3	19

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19	Evaluation of Gelatin Microparticles as Adherent-Substrates for Mesenchymal Stem Cells in a Hydrogel Composite. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1894-1907.	2.5	19
20	Polymer-Based Local Antibiotic Delivery for Prevention of Polymicrobial Infection in Contaminated Mandibular Implants. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 558-566.	5.2	17
21	Functional heterogeneity of IFN- γ -licensed mesenchymal stromal cell immunosuppressive capacity on biomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
22	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> , 2015, 21, 1216-1225.	2.1	13
23	Synthesis of Injectable, Thermally Responsive, Chondroitin Sulfate-Cross-Linked Poly(N-isopropylacrylamide) Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6405-6413.	5.2	12
24	Chondrogenesis of cocultures of mesenchymal stem cells and articular chondrocytes in poly(L-lysine)-loaded hydrogels. <i>Journal of Controlled Release</i> , 2020, 328, 710-721.	9.9	12
25	Adaptation of a Simple Microfluidic Platform for High-Dimensional Quantitative Morphological Analysis of Human Mesenchymal Stromal Cells on Polystyrene-Based Substrates. <i>SLAS Technology</i> , 2017, 22, 646-661.	1.9	10
26	Evaluation of tissue integration of injectable, cell-laden hydrogels of cocultures of mesenchymal stem cells and articular chondrocytes with an ex vivo cartilage explant model. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2958-2966.	3.3	10
27	A rapid, flexible method for incorporating controlled antibiotic release into porous polymethylmethacrylate space maintainers for craniofacial reconstruction. <i>Biomaterials Science</i> , 2016, 4, 121-129.	5.4	8
28	Pumpless, modular, microphysiological systems enabling tunable perfusion for long-term cultivation of endothelialized lumens. <i>Biomedical Microdevices</i> , 2021, 23, 25.	2.8	8
29	Honing Cell and Tissue Culture Conditions for Bone and Cartilage Tissue Engineering. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a025734.	6.2	7
30	Data describing the swelling behavior and cytocompatibility of biodegradable polyelectrolyte hydrogels incorporating poly(L-lysine) for applications in cartilage tissue engineering. <i>Data in Brief</i> , 2016, 7, 614-619.	1.0	5
31	Improvement of 19F MR image uniformity in a mouse model of cellular therapy using inductive coupling. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 15-23.	2.0	5
32	Science-based regulatory considerations for regenerative medicine cellular products. <i>Current Opinion in Biomedical Engineering</i> , 2021, 21, 100361.	3.4	1
33	Bilayered, Peptide Biofunctionalized Hydrogels for in Vivo Osteochondral Tissue Repair. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0