Brandon T Smith

List of Publications by Year
in descending order

#	Article	IF	Citations
1	3D printing for the design and fabrication of polymer-based gradient scaffolds. Acta Biomaterialia, 2017, 56, 3-13.	8.3	181
2	Fabrication and mechanical characterization of 3D printed vertical uniform and gradient scaffolds for bone and osteochondral tissue engineering. Acta Biomaterialia, 2019, 90, 37-48.	8.3	172
3	Extrusion-based 3D printing of poly(propylene fumarate) scaffolds with hydroxyapatite gradients. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 532-554.	3.5	101
4	Extrusion-Based 3D Printing of Poly(propylene fumarate) in a Full-Factorial Design. ACS Biomaterials Science and Engineering, 2016, 2, 1771-1780.	5.2	85
5	Biomaterials-aided mandibular reconstruction using in vivo bioreactors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6954-6963.	7.1	49
6	Immunomodulatory properties of stem cells and bioactive molecules for tissue engineering. Journal of Controlled Release, 2015, 219, 107-118.	9.9	39
7	Effects of Local Antibiotic Delivery from Porous Space Maintainers on Infection Clearance and Induction of an Osteogenic Membrane in an Infected Bone Defect. Tissue Engineering - Part A, 2017, 23, 91-100.	3.1	37
8	Incorporation of fast dissolving glucose porogens into an injectable calcium phosphate cement for bone tissue engineering. Acta Biomaterialia, 2017, 50, 68-77.	8.3	37
9	Bone Tissue Engineering Challenges in Oral & Maxillofacial Surgery. Advances in Experimental Medicine and Biology, 2015, 881, 57-78.	1.6	30
10	Effects of Shear Stress Gradients on Ewing Sarcoma Cells Using 3D Printed Scaffolds and Flow Perfusion. ACS Biomaterials Science and Engineering, 2018, 4, 347-356.	5.2	30
11	Multimaterial Segmented Fiber Printing for Gradient Tissue Engineering. Tissue Engineering - Part C: Methods, 2019, 25, 12-24.	2.1	29
12	Incorporation of fast dissolving glucose porogens and poly(lactic-co-glycolic acid) microparticles within calcium phosphate cements for bone tissue regeneration. Acta Biomaterialia, 2018, 78, 341-350.	8.3	28
13	Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. Tissue Engineering - Part A, 2020, 26, 239-252.	3.1	23
14	Bilayered, peptide-biofunctionalized hydrogels for in vivo osteochondral tissue repair. Acta Biomaterialia, 2021, 128, 120-129.	8.3	21
15	Multimodal pore formation in calcium phosphate cements. Journal of Biomedical Materials Research - Part A, 2018, 106, 500-509.	4.0	20
16	Click functionalized, tissueâ€specific hydrogels for osteochondral tissue engineering. Journal of Biomedical Materials Research - Part A, 2020, 108, 684-693.	4.0	20
17	Multimodal porogen platforms for calcium phosphate cement degradation. Journal of Biomedical Materials Research - Part A, 2019, 107, 1713-1722.	4.0	18
18	Fast dissolving glucose porogens for early calcium phosphate cement degradation and bone regeneration. Biomedical Materials (Bristol), 2020, 15, 025002.	3.3	12

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19	Chondrogenesis of cocultures of mesenchymal stem cells and articular chondrocytes in poly(l-lysine)-loaded hydrogels. Journal of Controlled Release, 2020, 328, 710-721.	9.9	12
20	Localized mandibular infection affects remote in vivo bioreactor bone generation. Biomaterials, 2020, 256, 120185.	11.4	12
21	Evaluation of tissue integration of injectable, cellâ€laden hydrogels of cocultures of mesenchymal stem cells and articular chondrocytes with an ex vivo cartilage explant model. Biotechnology and Bioengineering, 2021, 118, 2958-2966.	3.3	10
22	Aminated 3D Printed Polystyrene Maintains Stem Cell Proliferation and Osteogenic Differentiation. Tissue Engineering - Part C: Methods, 2020, 26, 118-131.	2.1	6