

Nathan J Castro

List of Publications by Year in descending order

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45
papers

2,419
citations

236612

25
h-index

315357

38
g-index

45
all docs

45
docs citations

45
times ranked

3685
citing authors

#	ARTICLE	IF	CITATIONS
1	4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. <i>Scientific Reports</i> , 2016, 6, 27226.	1.6	296
2	4D printing of polymeric materials for tissue and organ regeneration. <i>Materials Today</i> , 2017, 20, 577-591.	8.3	292
3	Integrating biologically inspired nanomaterials and table-top stereolithography for 3D printed biomimetic osteochondral scaffolds. <i>Nanoscale</i> , 2015, 7, 14010-14022.	2.8	172
4	Development of 3D printable conductive hydrogel with crystallized PEDOT:PSS for neural tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 99, 582-590.	3.8	167
5	Four-Dimensional Printing Hierarchy Scaffolds with Highly Biocompatible Smart Polymers for Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 952-963.	1.1	128
6	Enhanced bone tissue regeneration using a 3D printed microstructure incorporated with a hybrid nano hydrogel. <i>Nanoscale</i> , 2017, 9, 5055-5062.	2.8	121
7	Improved Human Bone Marrow Mesenchymal Stem Cell Osteogenesis in 3D Bioprinted Tissue Scaffolds with Low Intensity Pulsed Ultrasound Stimulation. <i>Scientific Reports</i> , 2016, 6, 32876.	1.6	99
8	An Integrated Design, Material, and Fabrication Platform for Engineering Biomechanically and Biologically Functional Soft Tissues. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29430-29437.	4.0	98
9	Recent Progress in Interfacial Tissue Engineering Approaches for Osteochondral Defects. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1628-1640.	1.3	83
10	Engineering a biomimetic three-dimensional nanostructured bone model for breast cancer bone metastasis study. <i>Acta Biomaterialia</i> , 2015, 14, 164-174.	4.1	70
11	Synergistic Effect of Cold Atmospheric Plasma and Drug Loaded Core-shell Nanoparticles on Inhibiting Breast Cancer Cell Growth. <i>Scientific Reports</i> , 2016, 6, 21974.	1.6	70
12	Current developments in multifunctional smart materials for 3D/4D bioprinting. <i>Current Opinion in Biomedical Engineering</i> , 2017, 2, 67-75.	1.8	70
13	Design of a Novel 3D Printed Bioactive Nanocomposite Scaffold for Improved Osteochondral Regeneration. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 416-432.	1.0	66
14	A 3D printed nano bone matrix for characterization of breast cancer cell and osteoblast interactions. <i>Nanotechnology</i> , 2016, 27, 315103.	1.3	62
15	3D printing of novel osteochondral scaffolds with graded microstructure. <i>Nanotechnology</i> , 2016, 27, 414001.	1.3	62
16	Rational design and fabrication of multiphasic soft network composites for tissue engineering articular cartilage: A numerical model-based approach. <i>Chemical Engineering Journal</i> , 2018, 340, 15-23.	6.6	58
17	The Current Versatility of Polyurethane Three-Dimensional Printing for Biomedical Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 272-283.	2.5	58
18	Electrospun Fibrous Scaffolds for Bone and Cartilage Tissue Generation: Recent Progress and Future Developments. <i>Tissue Engineering - Part B: Reviews</i> , 2012, 18, 478-486.	2.5	56

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19	Enhanced human bone marrow mesenchymal stem cell functions in novel 3D cartilage scaffolds with hydrogen treated multi-walled carbon nanotubes. <i>Nanotechnology</i> , 2013, 24, 365102.	1.3	56
20	Novel biologically-inspired rosette nanotube PLLA scaffolds for improving human mesenchymal stem cell chondrogenic differentiation. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 065003.	1.7	42
21	Independent Evaluation of Medical-Grade Bioresorbable Filaments for Fused Deposition Modelling/Fused Filament Fabrication of Tissue Engineered Constructs. <i>Polymers</i> , 2018, 10, 40.	2.0	41
22	Greater Osteoblast and Mesenchymal Stem Cell Adhesion and Proliferation on Titanium with Hydrothermally Treated Nanocrystalline Hydroxyapatite/Magnetically Treated Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7692-7702.	0.9	40
23	Cold Atmospheric Plasma Modified Electrospun Scaffolds with Embedded Microspheres for Improved Cartilage Regeneration. <i>PLoS ONE</i> , 2015, 10, e0134729.	1.1	29
24	Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. <i>Tissue Engineering - Part A</i> , 2018, 24, 537-545.	1.6	28
25	Biomimetic biphasic 3D nanocomposite scaffold for osteochondral regeneration. <i>AIChE Journal</i> , 2014, 60, 432-442.	1.8	26
26	Additive biomanufacturing of scaffolds for breast reconstruction. <i>Additive Manufacturing</i> , 2019, 30, 100845.	1.7	24
27	Integrating three-dimensional printing and nanotechnology for musculoskeletal regeneration. <i>Nanotechnology</i> , 2017, 28, 382001.	1.3	22
28	Simulated Body Fluid Nucleation of Three-Dimensional Printed Elastomeric Scaffolds for Enhanced Osteogenesis. <i>Tissue Engineering - Part A</i> , 2016, 22, 940-948.	1.6	14
29	Nondestructive testing of native and tissue-engineered medical products: adding numbers to pictures. <i>Trends in Biotechnology</i> , 2022, 40, 194-209.	4.9	9
30	Type II Photoinitiator and Tuneable Poly(Ethylene Glycol)-Based Materials Library for Visible Light Photolithography. <i>Tissue Engineering - Part A</i> , 2020, 26, 292-304.	1.6	8
31	Synthesis and manufacture of photocrosslinkable poly(caprolactone)-based three-dimensional scaffolds for tissue engineering applications. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2011, 02, 167-173.	0.3	6
32	Chromatographic and Traditional Albumin Isotherms on Cellulose: A Model for Wound Protein Adsorption on Modified Cotton. <i>Journal of Biomaterials Applications</i> , 2012, 26, 939-961.	1.2	6
33	Nanotechnology and 3D Bioprinting for Neural Tissue Regeneration. , 2015, , 307-331.		6
34	Biomaterials and 3D Printing Techniques for Neural Tissue Regeneration. , 2016, , 1-24.		6
35	Conceptual design of a personalized radiation therapy patch for skin cancer. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 607-610.	0.2	6
36	Nanobiotechnology and Nanostructured Therapeutic Delivery Systems. <i>Recent Patents on Biomedical Engineering</i> , 2012, 5, 29-40.	0.5	5

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37	A multiwell applicator for conformal brachytherapy of superficial skin tumors: A simulation study. <i>Skin Research and Technology</i> , 2020, 26, 537-541.	0.8	5
38	Nanotechnology and 3D/4D Bioprinting for Neural Tissue Regeneration. , 2022, , 427-458.		4
39	Designification of Neurotechnological Devices through 3D Printed Functional Materials. <i>Advanced Functional Materials</i> , 2018, 28, 1703905.	7.8	3
40	Efficient Construction of Volar Wrist Splints. <i>Hand</i> , 2016, 11, 310-313.	0.7	2
41	Development of Biomimetic and Bioactive 3D Nanocomposite Scaffolds for Osteochondral Regeneration. , 2013, , .		1
42	Development of a Biomimetic Electrospun Microfibrous Scaffold With Multiwall Carbon Nanotubes for Cartilage Regeneration. , 2013, , .		1
43	Novel Biologically Inspired Nanostructured Scaffolds for Directing Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 59-66.	0.1	1
44	Cotton and Protein Interactions. , 2006, , 49-65.		0
45	Cell Sources and Nanotechnology for Neural Tissue Engineering. , 2016, , 207-226.		0