

Syam P Nukavarapu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

5,024
citations

218592

26
h-index

189801

50
g-index

65
all docs

65
docs citations

65
times ranked

7440
citing authors

#	ARTICLE	IF	CITATIONS
1	Bone Tissue Engineering: Recent Advances and Challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2012, 40, 363-408.	0.5	1,758
2	Electrospun poly(lactic acid-co-glycolic acid) scaffolds for skin tissue engineering. <i>Biomaterials</i> , 2008, 29, 4100-4107.	5.7	512
3	Electrospun nanofiber scaffolds: engineering soft tissues. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 034002.	1.7	512
4	Osteochondral tissue engineering: Current strategies and challenges. <i>Biotechnology Advances</i> , 2013, 31, 706-721.	6.0	325
5	Polyphosphazene/Nano-Hydroxyapatite Composite Microsphere Scaffolds for Bone Tissue Engineering. <i>Biomacromolecules</i> , 2008, 9, 1818-1825.	2.6	184
6	Chitosan-poly(lactide-co-glycolide) microsphere-based scaffolds for bone tissue engineering: In vitro degradation and in vivo bone regeneration studies. <i>Acta Biomaterialia</i> , 2010, 6, 3457-3470.	4.1	141
7	Short-Term and Long-Term Effects of Orthopedic Biodegradable Implants. <i>Journal of Long-Term Effects of Medical Implants</i> , 2011, 21, 93-122.	0.2	134
8	Optimally Porous and Biomechanically Compatible Scaffolds for Large-Area Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2012, 18, 1376-1388.	1.6	108
9	Miscibility and in vitro osteocompatibility of biodegradable blends of poly[(ethyl alanato) (p-phenyl) Tj ETQq1 1 0.784314 rgBT /Overl	5.7	91
10	Dipeptide-based polyphosphazene and polyester blends for bone tissue engineering. <i>Biomaterials</i> , 2010, 31, 4898-4908.	5.7	91
11	Bioactive polymeric materials and electrical stimulation strategies for musculoskeletal tissue repair and regeneration. <i>Bioactive Materials</i> , 2020, 5, 468-485.	8.6	91
12	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: fabrication, <i>in vitro</i> and <i>in vivo</i> evaluation. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 035001.	1.7	78
13	Differential analysis of peripheral blood- and bone marrow-derived endothelial progenitor cells for enhanced vascularization in bone tissue engineering. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1507-1515.	1.2	73
14	In Vitro and In Vivo Characterization of Biodegradable Poly(organophosphazenes) for Biomedical Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007, 16, 365-385.	1.9	70
15	Recent Patents on Electrospun Biomedical Nanostructures: An Overview. <i>Recent Patents on Biomedical Engineering</i> , 2008, 1, 68-78.	0.5	66
16	In situ Porous Structures: A Unique Polymer Erosion Mechanism in Biodegradable Dipeptide-Based Polyphosphazene and Polyester Blends Producing Matrices for Regenerative Engineering. <i>Advanced Functional Materials</i> , 2010, 20, 2794-2806.	7.8	55
17	The influence of side group modification in polyphosphazenes on hydrolysis and cell adhesion of blends with PLGA. <i>Biomaterials</i> , 2009, 30, 3035-3041.	5.7	53
18	Nanotechnology and orthopedics: a personal perspective. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 6-10.	3.3	53

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19	Design, fabrication and <i>in vitro</i> evaluation of a novel polymer-hydrogel hybrid scaffold for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 131-142.	1.3	48
20	Biomimetic, bioactive etheric polyphosphazene-poly(lactide-co-glycolide) blends for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 114-125.	2.1	46
21	Engineering biomaterials to 3D-print scaffolds for bone regeneration: practical and theoretical consideration. <i>Biomaterials Science</i> , 2022, 10, 2789-2816.	2.6	44
22	Novel Nanostructured Scaffolds as Therapeutic Replacement Options for Rotator Cuff Disease. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 170-179.	1.4	33
23	Oxygen-Tension Controlled Matrices for Enhanced Osteogenic Cell Survival and Performance. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1261-1270.	1.3	31
24	Self-neutralizing PLGA/magnesium composites as novel biomaterials for tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035013.	1.7	30
25	Synthesis and characterization of photocrosslinkable hydrogels from bovine skin gelatin. <i>RSC Advances</i> , 2019, 9, 13016-13025.	1.7	30
26	Porous Structures: In situ Porous Structures: A Unique Polymer Erosion Mechanism in Biodegradable Dipeptide-Based Polyphosphazene and Polyester Blends Producing Matrices for Regenerative Engineering (<i>Adv. Funct. Mater.</i> 17(2010)). <i>Advanced Functional Materials</i> , 2010, 20, n/a-n/a.	7.8	27
27	Biomaterial-directed cell behavior for tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100260.	1.8	27
28	Functionalized Carbon Nanotube Composite Scaffolds for Bone Tissue Engineering: Prospects and Progress. <i>Journal of Biomaterials and Tissue Engineering</i> , 2011, 1, 76-85.	0.0	27
29	Growing a backbone – functional biomaterials and structures for intervertebral disc (IVD) repair and regeneration: challenges, innovations, and future directions. <i>Biomaterials Science</i> , 2020, 8, 1216-1239.	2.6	26
30	Oxygen Tension-Controlled Matrices with Osteogenic and Vasculogenic Cells for Vascularized Bone Regeneration <i>In Vivo</i> . <i>Tissue Engineering - Part A</i> , 2016, 22, 610-620.	1.6	22
31	Bio-inspired zonal-structured matrices for bone-cartilage interface engineering. <i>Biofabrication</i> , 2022, 14, 025016.	3.7	20
32	High Field Sodium MRI Assessment of Stem Cell Chondrogenesis in a Tissue-Engineered Matrix. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1120-1127.	1.3	19
33	Gradient scaffold with spatial growth factor profile for osteochondral interface engineering. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035021.	1.7	18
34	Harnessing External Cues: Development and Evaluation of an <i>In Vitro</i> Culture System for Osteochondral Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017, 23, 719-737.	1.6	17
35	Hybrid extracellular matrix design for cartilage-mediated bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 300-309.	1.6	16
36	Evaluation of an Engineered Hybrid Matrix for Bone Regeneration via Endochondral Ossification. <i>Annals of Biomedical Engineering</i> , 2020, 48, 992-1005.	1.3	16

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37	Optimal scaffold design and effective progenitor cell identification for the regeneration of vascularized bone. , 2011, 2011, 2464-7.		13
38	Osteochondral Tissue Engineering: Translational Research and Turning Research into Products. Advances in Experimental Medicine and Biology, 2018, 1058, 373-390.	0.8	13
39	Noninvasive Absolute Electron Paramagnetic Resonance Oxygen Imaging for the Assessment of Tissue Graft Oxygenation. Tissue Engineering - Part C: Methods, 2018, 24, 14-19.	1.1	13
40	Hydrogen bonding in blends of polyesters with dipeptideâ€œcontaining polyphosphazenes. Journal of Applied Polymer Science, 2010, 115, 431-437.	1.3	11
41	Novel and Unique Matrix Design for Osteochondral Tissue Engineering. Materials Research Society Symposia Proceedings, 2014, 1621, 17-23.	0.1	11
42	Amorphous silica fiber matrix biomaterials: An analysis of material synthesis and characterization for tissue engineering. Bioactive Materials, 2023, 19, 155-166.	8.6	8
43	A potential translational approach for bone tissue engineering through endochondral ossification. , 2014, 2014, 3925-8.		7
44	Histological Criteria that Distinguish Human and Mouse Bone Formed Within a Mouse Skeletal Repair Defect. Journal of Histochemistry and Cytochemistry, 2019, 67, 401-417.	1.3	7
45	Biodegradable Polyphosphazene Scaffolds for Tissue Engineering. , 0, , 117-138.		6
46	Nanostructured Scaffolds for Bone Tissue Engineering. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 169-192.	0.7	6
47	True MRI assessment of stem cell chondrogenesis in a tissue engineered matrix. , 2014, 2014, 3933-6.		6
48	Nanostructures for Tissue Engineering/Regenerative Medicine. , 0, , 375-407.		5
49	Evaluation of Autologously Derived Biomaterials and Stem Cells for Bone Tissue Engineering. Tissue Engineering - Part A, 2020, 26, 1052-1063.	1.6	5
50	Novel Absorbable Polyurethane Biomaterials and Scaffolds for Tissue Engineering. Materials Research Society Symposia Proceedings, 2014, 1621, 93-99.	0.1	3
51	Scaffolds for cartilage tissue engineering. , 2019, , 211-244.		3
52	Integration of Technologies for Bone Tissue Engineering. , 2019, , .		3
53	Patient-Derived and Intraoperatively Formed Biomaterial for Tissue Engineering. Methods in Molecular Biology, 2017, 1553, 265-272.	0.4	2
54	Tissue Engineering of Skeletal Tissues. , 2018, , .		2

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55	Insulin-Functionalized Bioactive Fiber Matrices with Bone Marrow-Derived Stem Cells in Rat Achilles Tendon Regeneration. ACS Applied Bio Materials, 2022, 5, 2851-2861.	2.3	2
56	Nanotubes for tissue engineering. , 2012, , 460-489.		1
57	Bio-inspired zonal-structured matrices for bone-cartilage interface engineering. Biofabrication, 2022, , .	3.7	1
58	Microtomy of Reinforced Polymer Scaffolds. Microscopy and Microanalysis, 2012, 18, 1640-1641.	0.2	0
59	Electrospun Polymeric Nanofiber Scaffolds for Tissue Regeneration. , 2014, , 229-254.		0
60	Hydrogels: Cell Delivery and Tissue Regeneration. , 2016, , 3841-3852.		0
61	Cell-Based Approaches for Bone Regeneration. , 0, , 97-116.		0