

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 | Amorphous silica fiber matrix biomaterials: An analysis of material synthesis and characterization for tissue engineering. <i>Bioactive Materials</i> , 2023, 19, 155-166. | 8.6 | 8 |
| 2 | Bio-inspired zonal-structured matrices for bone-cartilage interface engineering. <i>Biofabrication</i> , 2022, 14, 025016. | 3.7 | 20 |
| 3 | Bio-inspired zonal-structured matrices for bone-cartilage interface engineering. <i>Biofabrication</i> , 2022, , . | 3.7 | 1 |
| 4 | Engineering biomaterials to 3D-print scaffolds for bone regeneration: practical and theoretical consideration. <i>Biomaterials Science</i> , 2022, 10, 2789-2816. | 2.6 | 44 |
| 5 | Insulin-Functionalized Bioactive Fiber Matrices with Bone Marrow-Derived Stem Cells in Rat Achilles Tendon Regeneration. <i>ACS Applied Bio Materials</i> , 2022, 5, 2851-2861. | 2.3 | 2 |
| 6 | Gradient scaffold with spatial growth factor profile for osteochondral interface engineering. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035021. | 1.7 | 18 |
| 7 | Biomaterial-directed cell behavior for tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100260. | 1.8 | 27 |
| 8 | 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 |
| 9 | Evaluation of Autologously Derived Biomaterials and Stem Cells for Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2020, 26, 1052-1063. | 1.6 | 5 |
| 10 | 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 |
| 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 | Scaffolds for cartilage tissue engineering. , 2019, , 211-244. | | 3 |
| 13 | Integration of Technologies for Bone Tissue Engineering. , 2019, , . | | 3 |
| 14 | Synthesis and characterization of photocrosslinkable hydrogels from bovine skin gelatin. <i>RSC Advances</i> , 2019, 9, 13016-13025. | 1.7 | 30 |
| 15 | Histological Criteria that Distinguish Human and Mouse Bone Formed Within a Mouse Skeletal Repair Defect. <i>Journal of Histochemistry and Cytochemistry</i> , 2019, 67, 401-417. | 1.3 | 7 |
| 16 | Tissue Engineering of Skeletal Tissues. , 2018, , . | | 2 |
| 17 | Self-neutralizing PLGA/magnesium composites as novel biomaterials for tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 035013. | 1.7 | 30 |
| 18 | Osteochondral Tissue Engineering: Translational Research and Turning Research into Products. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1058, 373-390. | 0.8 | 13 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Noninvasive Absolute Electron Paramagnetic Resonance Oxygen Imaging for the Assessment of Tissue Graft Oxygenation. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 14-19. | 1.1 | 13 |
| 21 | Patient-Derived and Intraoperatively Formed Biomaterial for Tissue Engineering. <i>Methods in Molecular Biology</i> , 2017, 1553, 265-272. | 0.4 | 2 |
| 22 | Harnessing External Cues: Development and Evaluation of an In Vitro Culture System for Osteochondral Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017, 23, 719-737. | 1.6 | 17 |
| 23 | Hydrogels: Cell Delivery and Tissue Regeneration. , 2016, , 3841-3852. | | 0 |
| 24 | 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 |
| 25 | 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 |
| 26 | Novel Absorbable Polyurethane Biomaterials and Scaffolds for Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1621, 93-99. | 0.1 | 3 |
| 27 | True MRI assessment of stem cell chondrogenesis in a tissue engineered matrix. , 2014, 2014, 3933-6. | | 6 |
| 28 | A potential translational approach for bone tissue engineering through endochondral ossification. , 2014, 2014, 3925-8. | | 7 |
| 29 | Novel and Unique Matrix Design for Osteochondral Tissue Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1621, 17-23. | 0.1 | 11 |
| 30 | 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 |
| 31 | Oxygen-Tension Controlled Matrices for Enhanced Osteogenic Cell Survival and Performance. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1261-1270. | 1.3 | 31 |
| 32 | 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 |
| 33 | Electrospun Polymeric Nanofiber Scaffolds for Tissue Regeneration. , 2014, , 229-254. | | 0 |
| 34 | Osteochondral tissue engineering: Current strategies and challenges. <i>Biotechnology Advances</i> , 2013, 31, 706-721. | 6.0 | 325 |
| 35 | Nanotubes for tissue engineering. , 2012, , 460-489. | | 1 |
| 36 | Bone Tissue Engineering: Recent Advances and Challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2012, 40, 363-408. | 0.5 | 1,758 |

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|----|--|-----|-----------|
| 37 | Microtomy of Reinforced Polymer Scaffolds. <i>Microscopy and Microanalysis</i> , 2012, 18, 1640-1641. | 0.2 | 0 |
| 38 | Optimally Porous and Biomechanically Compatible Scaffolds for Large-Area Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2012, 18, 1376-1388. | 1.6 | 108 |
| 39 | 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 |
| 40 | Nanostructured Scaffolds for Bone Tissue Engineering. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011, , 169-192. | 0.7 | 6 |
| 41 | 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 |
| 42 | Optimal scaffold design and effective progenitor cell identification for the regeneration of vascularized bone. , 2011, 2011, 2464-7. | | 13 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Hydrogen bonding in blends of polyesters with dipeptide-containing polyphosphazenes. <i>Journal of Applied Polymer Science</i> , 2010, 115, 431-437. | 1.3 | 11 |
| 48 | 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 |
| 49 | Dipeptide-based polyphosphazene and polyester blends for bone tissue engineering. <i>Biomaterials</i> , 2010, 31, 4898-4908. | 5.7 | 91 |
| 50 | 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 |
| 51 | 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 |
| 52 | Nanotechnology and orthopedics: a personal perspective. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 6-10. | 3.3 | 53 |
| 53 | Miscibility and in vitro osteocompatibility of biodegradable blends of poly[(ethyl alanato) (p-phenyl) Tj ETQq1 1 0.784314 rgBT /Overl | 5.7 | 91 |
| 54 | Electrospun poly(lactic acid-co-glycolic acid) scaffolds for skin tissue engineering. <i>Biomaterials</i> , 2008, 29, 4100-4107. | 5.7 | 512 |

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|----|---|-----|-----------|
| 55 | Electrospun nanofiber scaffolds: engineering soft tissues. Biomedical Materials (Bristol), 2008, 3, 034002. | 1.7 | 512 |
| 56 | Polyphosphazene/Nano-Hydroxyapatite Composite Microsphere Scaffolds for Bone Tissue Engineering. Biomacromolecules, 2008, 9, 1818-1825. | 2.6 | 184 |
| 57 | Recent Patents on Electrospun Biomedical Nanostructures: An Overview. Recent Patents on Biomedical Engineering, 2008, 1, 68-78. | 0.5 | 66 |
| 58 | In Vitro and In Vivo Characterization of Biodegradable Poly(organophosphazenes) for Biomedical Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 16, 365-385. | 1.9 | 70 |
| 59 | Nanostructures for Tissue Engineering/Regenerative Medicine. , 0, , 375-407. | | 5 |
| 60 | Biodegradable Polyphosphazene Scaffolds for Tissue Engineering. , 0, , 117-138. | | 6 |
| 61 | Cell-Based Approaches for Bone Regeneration. , 0, , 97-116. | | 0 |