## Antonios G Mikos

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| 234         | 18,792         | 71                 | 134     |
|-------------|----------------|--------------------|---------|
| papers      | citations      | h-index            | g-index |
| 245         | 21,011         | <b>9.2</b> avg, IF | 7.09    |
| ext. papers | ext. citations |                    | L-index |

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 234 | A dual-gelling poly(-isopropylacrylamide)-based ink and thermoreversible poloxamer support bath for high-resolution bioprinting <i>Bioactive Materials</i> , <b>2022</b> , 14, 302-312  | 16.7 | 1         |
| 233 | Correlation of nuclear pIGF-1R/IGF-1R and YAP/TAZ in a tissue microarray with outcomes in osteosarcoma patients <i>Oncotarget</i> , <b>2022</b> , 13, 521-533   | 3.3  | 0         |
| 232 | Stem cell-homing hydrogel-based miR-29b-5p delivery promotes cartilage regeneration by suppressing senescence in an osteoarthritis rat model <i>Science Advances</i> , <b>2022</b> , 8, eabk0011  | 14.3 | 2         |
| 231 | Evidence-based biomaterials research. <i>Bioactive Materials</i> , <b>2022</b> , 15, 495-503  | 16.7 | 2         |
| 230 | Evaluating the physicochemical effects of conjugating peptides into thermogelling hydrogels for regenerative biomaterials applications <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab073                              | 5.3  | 2         |
| 229 | Deep Learning for Automated Analysis of Cellular and Extracellular Components of the Foreign Body Response in Multiphoton Microscopy Images <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 797555                              | 5.8  | 1         |
| 228 | Structural alignment guides oriented migration and differentiation of endogenous neural stem cells for neurogenesis in brain injury treatment. <i>Biomaterials</i> , <b>2021</b> , 280, 121310  | 15.6 | 2         |
| 227 | Novel polymer-based system for intrauterine delivery of everolimus for anti-cancer applications.<br>Journal of Controlled Release, <b>2021</b> , 339, 521-530   | 11.7 | 0         |
| 226 | EGF-mediated suppression of cell extrusion during mucosal damage attenuates opportunistic fungal invasion. <i>Cell Reports</i> , <b>2021</b> , 34, 108896   | 10.6 | 3         |
| 225 | Bioinspired electrospun dECM scaffolds guide cell growth and control the formation of myotubes. <i>Science Advances</i> , <b>2021</b> , 7,  | 14.3 | 6         |
| 224 | 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> , <b>2021</b> , 118, 2958-2966 | 4.9  | 2         |
| 223 | Bioprinted nanocomposite hydrogels: A proposed approach to functional restoration of skeletal muscle and vascular tissue following volumetric muscle loss. <i>Current Opinion in Pharmacology</i> , <b>2021</b> , 58, 35-43                             | 5.1  | 0         |
| 222 | Three-Dimensional Printing of Click Functionalized, Peptide Patterned Scaffolds for Osteochondral Tissue Engineering. <i>Bioprinting</i> , <b>2021</b> , 22, e00136-e00136  | 7    | 3         |
| 221 | Transcriptional activators YAP/TAZ and AXL orchestrate dedifferentiation, cell fate, and metastasis in human osteosarcoma. <i>Cancer Gene Therapy</i> , <b>2021</b> , 28, 1325-1338   | 5.4  | 5         |
| 220 | Development of a modular, biocompatible thiolated gelatin microparticle platform for drug delivery and tissue engineering applications. <i>International Journal of Energy Production and Management</i> , <b>2021</b> , 8, rbab012                     | 5.3  | 3         |
| 219 | Effect of 3D Printing Temperature on Bioactivity of Bone Morphogenetic Protein-2 Released from Polymeric Constructs. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 2114-2125  | 4.7  | 3         |
| 218 | Emerging strategies in reprogramming and enhancing the fate of mesenchymal stem cells for bone and cartilage tissue engineering. <i>Journal of Controlled Release</i> , <b>2021</b> , 330, 565-574  | 11.7 | 7         |

### (2020-2021)

| 217                             | Bilayered, peptide-biofunctionalized hydrogels for in vivo osteochondral tissue repair. <i>Acta Biomaterialia</i> , <b>2021</b> , 128, 120-129   | 10.8                    | 3                        |
|---------------------------------|--|-------------------------|--------------------------|
| 216                             | 3D printed colloidal biomaterials based on photo-reactive gelatin nanoparticles. <i>Biomaterials</i> , <b>2021</b> , 274, 120871   | 15.6                    | 4                        |
| 215                             | Computational modeling identifies multitargeted kinase inhibitors as effective therapies for metastatic, castration-resistant prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,   | 11.5                    | 1                        |
| 214                             | Polymeric Systems for Bioprinting. <i>Chemical Reviews</i> , <b>2020</b> , 120, 10744-10792  | 68.1                    | 68                       |
| 213                             | Concurrent multi-lineage differentiation of mesenchymal stem cells through spatial presentation of growth factors. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 055035  | 3.5                     | 4                        |
| 212                             | An Ovine Model of Bioreactor-Based Bone Generation. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 384-396  | 2.9                     | 2                        |
| 211                             | Materials design for bone-tissue engineering. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 584-603   | 73.3                    | 293                      |
| 210                             | Tornadic Shear Stress Induces a Transient, Calcineurin-Dependent Hypervirulent Phenotype in Mucorales Molds. <i>MBio</i> , <b>2020</b> , 11,   | 7.8                     | 4                        |
| 209                             | Localized mandibular infection affects remote in vivo bioreactor bone generation. <i>Biomaterials</i> , <b>2020</b> , 256, 120185  | 15.6                    | 3                        |
|                                 |  |                         |                          |
| 208                             | Modeling the Tumor Microenvironment and Pathogenic Signaling in Bone Sarcoma. <i>Tissue Engineering - Part B: Reviews</i> , <b>2020</b> , 26, 249-271  | 7.9                     | 9                        |
| 208                             |  | 7.9                     | 9                        |
|                                 | Engineering - Part B: Reviews, <b>2020</b> , 26, 249-271   |                         |                          |
| 207                             | Engineering - Part B: Reviews, 2020, 26, 249-271  Assessment methodologies for extrusion-based bioink printability. Biofabrication, 2020, 12, 022003  Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. Tissue   | 10.5                    | 94                       |
| 207                             | Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , <b>2020</b> , 12, 022003  Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 292-305  Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial   | 10.5                    | 94                       |
| 207<br>206<br>205               | Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , <b>2020</b> , 12, 022003  Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 292-305  Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 239-252  Fiber engraving for bioink bioprinting within 3D printed tissue engineering scaffolds. <i>Bioprinting</i> ,  | 10.5<br>2.9<br>3.9      | 94 4 14                  |
| 207<br>206<br>205               | Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , <b>2020</b> , 12, 022003  Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 292-305  Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 239-252  Fiber engraving for bioink bioprinting within 3D printed tissue engineering scaffolds. <i>Bioprinting</i> , <b>2020</b> , 18,  A high-throughput approach to compare the biocompatibility of candidate bioink formulations.  | 10.5<br>2.9<br>3.9      | 94 4 14 12               |
| 207<br>206<br>205<br>204<br>203 | Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , <b>2020</b> , 12, 022003  Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 292-305  Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 239-252  Fiber engraving for bioink bioprinting within 3D printed tissue engineering scaffolds. <i>Bioprinting</i> , <b>2020</b> , 18,  A high-throughput approach to compare the biocompatibility of candidate bioink formulations. <i>Bioprinting</i> , <b>2020</b> , 17, e00068  Click functionalized, tissue-specific hydrogels for osteochondral tissue engineering. <i>Journal of</i> | 10.5<br>2.9<br>3.9<br>7 | 94<br>4<br>14<br>12<br>6 |

| 199 | A Rabbit Femoral Condyle Defect Model for Assessment of Osteochondral Tissue Regeneration. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 554-564                                   | 2.9  | 3   |
|-----|--|------|-----|
| 198 | Biodegradable thermoresponsive polymers: Applications in drug delivery and tissue engineering. <i>Polymer</i> , <b>2020</b> , 211, 123063  | 3.9  | 38  |
| 197 | Chondrogenesis of cocultures of mesenchymal stem cells and articular chondrocytes in poly(l-lysine)-loaded hydrogels. <i>Journal of Controlled Release</i> , <b>2020</b> , 328, 710-721              | 11.7 | 4   |
| 196 | Nanomaterial Additives for Fabrication of Stimuli-Responsive Skeletal Muscle Tissue Engineering Constructs. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2000730                         | 10.1 | 15  |
| 195 | Advances in biomaterials for skeletal muscle engineering and obstacles still to overcome. <i>Materials Today Bio</i> , <b>2020</b> , 7, 100069   | 9.9  | 18  |
| 194 | Machine Learning-Guided Three-Dimensional Printing of Tissue Engineering Scaffolds. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 1359-1368   | 3.9  | 16  |
| 193 | The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 1349-1358  | 3.9  | 15  |
| 192 | Tuning pore features of mineralized collagen/PCL scaffolds for cranial bone regeneration in a rat model. <i>Materials Science and Engineering C</i> , <b>2020</b> , 106, 110186                      | 8.3  | 22  |
| 191 | Mechanically tunable coaxial electrospun models of YAP/TAZ mechanoresponse and IGF-1R activation in osteosarcoma. <i>Acta Biomaterialia</i> , <b>2019</b> , 100, 38-51                               | 10.8 | 14  |
| 190 | Three-Dimensional Printing of Tissue Engineering Scaffolds with Horizontal Pore and Composition Gradients. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 411-420                   | 2.9  | 18  |
| 189 | Why, When, Who, What, How, and Where for Trainees Writing Literature Review Articles. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 2334-2340  | 4.7  | 2   |
| 188 | Biomaterials-aided mandibular reconstruction using in vivo bioreactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6954-6963        | 11.5 | 26  |
| 187 | A murine model of cutaneous aspergillosis for evaluation of biomaterials-based local delivery therapies. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1867-1874     | 5.4  | 2   |
| 186 | Fabrication and mechanical characterization of 3D printed vertical uniform and gradient scaffolds for bone and osteochondral tissue engineering. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 37-48 | 10.8 | 101 |
| 185 | Fabrication and Characterization of Electrospun Decellularized Muscle-Derived Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 276-287                                     | 2.9  | 27  |
| 184 | Multimodal porogen platforms for calcium phosphate cement degradation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1713-1722                                       | 5.4  | 12  |
| 183 | An Overview of the Tissue Engineering Market in the United States from 2011 to 2018. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 1-8  | 3.9  | 33  |
| 182 | Synthetic Polymers <b>2019</b> , 559-590   |      | 26  |

#### (2018-2019)

| 181 | Applications of decellularized extracellular matrix in bone and cartilage tissue engineering. <i>Bioengineering and Translational Medicine</i> , <b>2019</b> , 4, 83-95   | 14.8   | 106 |
|-----|---|--------|-----|
| 180 | Biomacromolecules for Tissue Engineering: Emerging Biomimetic Strategies. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2904-2912  | 6.9    | 22  |
| 179 | Hierarchically designed bone scaffolds: From internal cues to external stimuli. <i>Biomaterials</i> , <b>2019</b> , 218, 119334   | 15.6   | 109 |
| 178 | Insect Bite-Associated Invasive Fungal Infections. <i>Open Forum Infectious Diseases</i> , <b>2019</b> , 6, ofz385  | 1      | 1   |
| 177 | Synthesis of Injectable, Thermally Responsive, Chondroitin Sulfate-Cross-Linked Poly(-isopropylacrylamide) Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 6405-6413                      | 5.5    | 7   |
| 176 | Ubiquilins regulate autophagic flux through mTOR signalling and lysosomal acidification. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 384-396   | 23.4   | 76  |
| 175 | Synergistic effects of dual-presenting VEGF- and BDNF-mimetic peptide epitopes from self-assembling peptide hydrogels on peripheral nerve regeneration. <i>Nanoscale</i> , <b>2019</b> , 11, 19943-19958                | 7.7    | 30  |
| 174 | Microfluidic devices for disease modeling in muscle tissue. <i>Biomaterials</i> , <b>2019</b> , 198, 250-258  | 15.6   | 11  |
| 173 | Progress in three-dimensional printing with growth factors. <i>Journal of Controlled Release</i> , <b>2019</b> , 295, 50-59   | 11.7   | 38  |
| 172 | Multimaterial Segmented Fiber Printing for Gradient Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2019</b> , 25, 12-24   | 2.9    | 21  |
| 171 | Large Animal Models of an In Vivo Bioreactor for Engineering Vascularized Bone. <i>Tissue Engineering - Part B: Reviews</i> , <b>2018</b> , 24, 317-325   | 7.9    | 12  |
| 170 | Biomechanical forces in tissue engineered tumor models. <i>Current Opinion in Biomedical Engineering</i> , <b>2018</b> , 6, 42-50   | 4.4    | 12  |
| 169 | Three-dimensional Printing of Multilayered Tissue Engineering Scaffolds. <i>Materials Today</i> , <b>2018</b> , 21, 861   | -287.8 | 93  |
| 168 | A neurotrophic peptide-functionalized self-assembling peptide nanofiber hydrogel enhances rat sciatic nerve regeneration. <i>Nano Research</i> , <b>2018</b> , 11, 4599-4613  | 10     | 30  |
| 167 | Effects of Shear Stress Gradients on Ewing Sarcoma Cells Using 3D Printed Scaffolds and Flow Perfusion. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 347-356                                      | 5.5    | 21  |
| 166 | Multimodal pore formation in calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 500-509   | 5.4    | 16  |
| 165 | Incorporation of fast dissolving glucose porogens and poly(lactic-co-glycolic acid) microparticles within calcium phosphate cements for bone tissue regeneration. <i>Acta Biomaterialia</i> , <b>2018</b> , 78, 341-350 | 10.8   | 16  |
| 164 | Injectable OPF/graphene oxide hydrogels provide mechanical support and enhance cell electrical signaling after implantation into myocardial infarct. <i>Theranostics</i> , <b>2018</b> , 8, 3317-3330                   | 12.1   | 54  |

| 163 | Econazole-releasing porous space maintainers for fungal periprosthetic joint infection. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 70   | 4.5                  |                 |
|-----|---|----------------------|-----------------|
| 162 | A high-strength mineralized collagen bone scaffold for large-sized cranial bone defect repair in sheep. <i>International Journal of Energy Production and Management</i> , <b>2018</b> , 5, 283-292                             | 5.3                  | 20              |
| 161 | Material Processing and Design of Biodegradable Metal Matrix Composites for Biomedical Applications. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 1229-1240  | 4.7                  | 17              |
| 160 | Drug delivery and tissue engineering to promote wound healing in the immunocompromised host: Current challenges and future directions. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 129, 319-329                       | 18.5                 | 16              |
| 159 | Spatiotemporal Control of Growth Factors in Three-Dimensional Printed Scaffolds. <i>Bioprinting</i> , <b>2018</b> , 12, e00032-e00032   | 7                    | 37              |
| 158 | Increased recruitment of endogenous stem cells and chondrogenic differentiation by a composite scaffold containing bone marrow homing peptide for cartilage regeneration. <i>Theranostics</i> , <b>2018</b> , 8, 503            | 39 <sup>-50</sup> 58 | <sub>3</sub> 57 |
| 157 | Improved in situ seeding of 3D printed scaffolds using cell-releasing hydrogels. <i>Biomaterials</i> , <b>2018</b> , 185, 194-204   | 15.6                 | 35              |
| 156 | Reverse transduction can improve efficiency of AAV vectors in transduction-resistant cells. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 3042-3049  | 4.9                  | 3               |
| 155 | Extrusion-based 3D printing of poly(propylene fumarate) scaffolds with hydroxyapatite gradients.<br>Journal of Biomaterials Science, Polymer Edition, 2017, 28, 532-554   | 3.5                  | 83              |
| 154 | Selective laser sintering scaffold with hierarchical architecture and gradient composition for osteochondral repair in rabbits. <i>Biomaterials</i> , <b>2017</b> , 137, 37-48  | 15.6                 | 179             |
| 153 | Synthesis and Characterization of Diol-Based Unsaturated Polyesters: Poly(diol fumarate) and Poly(diol fumarate-co-succinate). <i>Biomacromolecules</i> , <b>2017</b> , 18, 1724-1735   | 6.9                  | 14              |
| 152 | Application of Materials as Medical Devices with Localized Drug Delivery Capabilities for Enhanced Wound Repair. <i>Progress in Materials Science</i> , <b>2017</b> , 89, 392-410   | 42.2                 | 62              |
| 151 | Mineralized Collagen-Based Composite Bone Materials for Cranial Bone Regeneration in Developing Sheep. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1092-1099   | 5.5                  | 23              |
| 150 | 3D printing for the design and fabrication of polymer-based gradient scaffolds. <i>Acta Biomaterialia</i> , <b>2017</b> , 56, 3-13  | 10.8                 | 129             |
| 149 | Changes in In Vitro Susceptibility Patterns of Aspergillus to Triazoles and Correlation With Aspergillosis Outcome in a Tertiary Care Cancer Center, 1999-2015. <i>Clinical Infectious Diseases</i> , <b>2017</b> , 65, 216-225 | 11.6                 | 39              |
| 148 | Honing Cell and Tissue Culture Conditions for Bone and Cartilage Tissue Engineering. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2017</b> , 7,  | 5.4                  | 4               |
| 147 | Effects of Local Antibiotic Delivery from Porous Space Maintainers on Infection Clearance and Induction of an Osteogenic Membrane in an Infected Bone Defect. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 91-100     | 3.9                  | 22              |
| 146 | Inherently Antimicrobial Biodegradable Polymers in Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1207-1220   | 5.5                  | 16              |

### (2015-2017)

| 145 | Modeling Stroma-Induced Drug Resistance in a Tissue-Engineered Tumor Model of Ewing Sarcoma. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 80-89   | 3.9  | 17  |
|-----|---|------|-----|
| 144 | Incorporation of fast dissolving glucose porogens into an injectable calcium phosphate cement for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2017</b> , 50, 68-77  | 10.8 | 33  |
| 143 | Acellular mineral deposition within injectable, dual-gelling hydrogels for bone tissue engineering.<br>Journal of Biomedical Materials Research - Part A, <b>2017</b> , 105, 110-117  | 5.4  | 7   |
| 142 | Effects of cellular parameters on the in vitro osteogenic potential of dual-gelling mesenchymal stem cell-laden hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2016</b> , 27, 1277-90                      | 3.5  | 5   |
| 141 | Evaluation of cell-laden polyelectrolyte hydrogels incorporating poly(L-Lysine) for applications in cartilage tissue engineering. <i>Biomaterials</i> , <b>2016</b> , 83, 332-46  | 15.6 | 64  |
| 140 | Extrusion-Based 3D Printing of Poly(propylene fumarate) in a Full-Factorial Design. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1771-1780  | 5.5  | 67  |
| 139 | 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> , <b>2016</b> , 7, 614-9 | 1.2  | 4   |
| 138 | Evaluation of Gelatin Microparticles as Adherent-Substrates for Mesenchymal Stem Cells in a Hydrogel Composite. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1894-907  | 4.7  | 13  |
| 137 | 2015 Lifetime Achievement Award of Tissue Engineering and Regenerative Medicine International Society-Americas: Antonios G. Mikos, PhD. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 1-2                                  | 3.9  | 1   |
| 136 | A 3D in vitro model of patient-derived prostate cancer xenograft for controlled interrogation of in vivo tumor-stromal interactions. <i>Biomaterials</i> , <b>2016</b> , 77, 164-72   | 15.6 | 74  |
| 135 | Tissue Engineering in Orthopaedics. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2016</b> , 98, 1132-9  | 5.6  | 46  |
| 134 | Polymer-Based Local Antibiotic Delivery for Prevention of Polymicrobial Infection in Contaminated Mandibular Implants. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 558-566                                   | 5.5  | 15  |
| 133 | Poly(lactic acid) nanofibrous scaffolds for tissue engineering. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 107, 206-212  | 18.5 | 238 |
| 132 | Reconstruction of large mandibular defects using autologous tissues generated from in vivo bioreactors. <i>Acta Biomaterialia</i> , <b>2016</b> , 45, 72-84   | 10.8 | 25  |
| 131 | A composite critical-size rabbit mandibular defect for evaluation of craniofacial tissue regeneration. <i>Nature Protocols</i> , <b>2016</b> , 11, 1989-2009  | 18.8 | 25  |
| 130 | Biodegradable, phosphate-containing, dual-gelling macromers for cellular delivery in bone tissue engineering. <i>Biomaterials</i> , <b>2015</b> , 67, 286-96  | 15.6 | 41  |
| 129 | Infected animal models for tissue engineering. <i>Methods</i> , <b>2015</b> , 84, 17-24   | 4.6  | 11  |
| 128 | Flow perfusion effects on three-dimensional culture and drug sensitivity of Ewing sarcoma.  Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10304-9                                     | 11.5 | 75  |

| 127 | Biodegradable, in Situ-Forming Cell-Laden Hydrogel Composites of Hydroxyapatite Nanoparticles for Bone Regeneration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 10206-10211  | 3.9  | 9   |
|-----|--|------|-----|
| 126 | Bone Tissue Engineering Challenges in Oral & Maxillofacial Surgery. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 881, 57-78  | 3.6  | 20  |
| 125 | Bone Tissue Engineering with Multilayered Scaffolds-Part I: An Approach for Vascularizing Engineered Constructs In Vivo. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 2480-94  | 3.9  | 24  |
| 124 | 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> , <b>2015</b> , 21, 1216-25                | 2.9  | 12  |
| 123 | Immunomodulatory properties of stem cells and bioactive molecules for tissue engineering.<br>Journal of Controlled Release, <b>2015</b> , 219, 107-118   | 11.7 | 34  |
| 122 | Bone Tissue Engineering with Multilayered Scaffolds-Part II: Combining Vascularization with Bone Formation in Critical-Sized Bone Defect. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 2495-503  | 3.9  | 12  |
| 121 | Materials from Mussel-Inspired Chemistry for Cell and Tissue Engineering Applications. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2541-55  | 6.9  | 206 |
| 120 | In vitro and in vivo evaluation of self-mineralization and biocompatibility of injectable, dual-gelling hydrogels for bone tissue engineering. <i>Journal of Controlled Release</i> , <b>2015</b> , 205, 25-34   | 11.7 | 49  |
| 119 | Novel applications of statins for bone regeneration. <i>National Science Review</i> , <b>2015</b> , 2, 85-99   | 10.8 | 56  |
| 118 | Strategies for controlled delivery of biologics for cartilage repair. <i>Advanced Drug Delivery Reviews</i> , <b>2015</b> , 84, 123-34   | 18.5 | 82  |
| 117 | Effects of Electron Beam Sterilization on Mechanical Properties of a Porous Polymethylmethacrylate Space Maintenance Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2015</b> , 9,  | 1.3  | 3   |
| 116 | Characterization of an injectable, degradable polymer for mechanical stabilization of mandibular fractures. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 529-38                                    | 3.5  | 5   |
| 115 | Gelatin carriers for drug and cell delivery in tissue engineering. <i>Journal of Controlled Release</i> , <b>2014</b> , 190, 210-8   | 11.7 | 221 |
| 114 | Synthesis, physicochemical characterization, and cytocompatibility of bioresorbable, dual-gelling injectable hydrogels. <i>Biomacromolecules</i> , <b>2014</b> , 15, 132-42  | 6.9  | 46  |
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| 111 | Important Topics in the Future of Tissue Engineering: Comments from the participants of the 5th International Conference on Tissue Engineering at Kos, Greece. <i>International Journal of Energy Production and Management</i> , <b>2014</b> , 1, 103-6 | 5.3  | 2   |
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| 109 | Synthetic biodegradable hydrogel delivery of demineralized bone matrix for bone augmentation in a rat model. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4574-4582   | 10.8 | 13  |
|-----|--|------|-----|
| 108 | Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. <i>Biomaterials</i> , <b>2014</b> , 35, 8829-8839  | 15.6 | 112 |
| 107 | Generation of osteochondral tissue constructs with chondrogenically and osteogenically predifferentiated mesenchymal stem cells encapsulated in bilayered hydrogels. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1112-23   | 10.8 | 47  |
| 106 | Osteochondral tissue regeneration through polymeric delivery of DNA encoding for the SOX trio and RUNX2. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4103-12   | 10.8 | 43  |
| 105 | Use of porous space maintainers in staged mandibular reconstruction. <i>Oral and Maxillofacial Surgery Clinics of North America</i> , <b>2014</b> , 26, 143-9  | 3.4  | 14  |
| 104 | Leveraging synthetic biology for tissue engineering applications. <i>Inflammation and Regeneration</i> , <b>2014</b> , 34, 015-022   | 10.9 | 5   |
| 103 | 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> , <b>2014</b> , 102, 3477-87 | 5.4  | 25  |
| 102 | 3D tissue-engineered model of Ewingly sarcoma. Advanced Drug Delivery Reviews, 2014, 79-80, 155-71   | 18.5 | 36  |
| 101 | Evaluation of antibiotic-impregnated microspheres for the prevention of implant-associated orthopaedic infections. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2014</b> , 96, 128-34  | 5.6  | 21  |
| 100 | Open-source three-dimensional printing of biodegradable polymer scaffolds for tissue engineering.<br>Journal of Biomedical Materials Research - Part A, <b>2014</b> , 102, 4326-35   | 5.4  | 35  |
| 99  | Perspectives on the prevention and treatment of infection for orthopedic tissue engineering applications. <i>Science Bulletin</i> , <b>2013</b> , 58, 4342-4348  |      | 15  |
| 98  | Hypoxia and flow perfusion modulate proliferation and gene expression of articular chondrocytes on porous scaffolds. <i>AICHE Journal</i> , <b>2013</b> , 59, 3158-3166  | 3.6  | 17  |
| 97  | Evolving strategies for preventing biofilm on implantable materials. <i>Materials Today</i> , <b>2013</b> , 16, 177-182  | 21.8 | 71  |
| 96  | Modeling Ewing sarcoma tumors in vitro with 3D scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6500-5   | 11.5 | 180 |
| 95  | Fiber-Based Composite Tissue Engineering Scaffolds for Drug Delivery. <i>Israel Journal of Chemistry</i> , <b>2013</b> , 53, n/a-n/a   | 3.4  | 4   |
| 94  | Scaffold/Extracellular matrix hybrid constructs for bone-tissue engineering. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 13-24   | 10.1 | 68  |
| 93  | Enhanced chondrogenesis in co-cultures with articular chondrocytes and mesenchymal stem cells. <i>Biomaterials</i> , <b>2012</b> , 33, 6362-9  | 15.6 | 150 |
| 92  | Engineering complex tissues. Science Translational Medicine, <b>2012</b> , 4, 160rv12  | 17.5 | 364 |

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|----|--|-----------------|-----|
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| 82 | Protein and mineral composition of osteogenic extracellular matrix constructs generated with a flow perfusion bioreactor. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4204-12   | 6.9             | 36  |
| 81 | Injectable calcium phosphate cement with PLGA, gelatin and PTMC microspheres in a rabbit femoral defect. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 1752-9   | 10.8            | 76  |
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| 79 | Responsive and in situ-forming chitosan scaffolds for bone tissue engineering applications: an overview of the last decade. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1638-1645                              |                 | 70  |
| 78 | Engineering tumors: a tissue engineering perspective in cancer biology. <i>Tissue Engineering - Part B: Reviews</i> , <b>2010</b> , 16, 351-9  | 7.9             | 138 |
| 77 | Osteogenic differentiation of mesenchymal stem cells on pregenerated extracellular matrix scaffolds in the absence of osteogenic cell culture supplements. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 431-40     | 3.9             | 158 |
| 76 | Fibrin glue as a drug delivery system. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 49-55   | 11.7            | 130 |
| 75 | Dose effect of dual delivery of vascular endothelial growth factor and bone morphogenetic protein-2 on bone regeneration in a rat critical-size defect model. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 2347-62 | 3.9             | 209 |
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| 30 | Modulation of marrow stromal cell function using poly(D,L-lactic acid)-block-poly(ethylene glycol)-monomethyl ether surfaces <b>1999</b> , 46, 390  |     | 1   |
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A Novel Biodegradable Poly(Lactic-Co-Glycolic Acid) Foam for Bone Regeneration. *Materials Research Society Symposia Proceedings*, **1993**, 331, 33