# Alexandra Pinto Marques

## List of Publications by Citations



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|---|---|---|---|
| 139 papers | 6,182 citations | 41 h-index | 76 g-index |
| 152 ext. papers | 7,096 ext. citations | 7.8 avg, IF | 5.98 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 139 | Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends. *Journal of the Royal Society Interface*, **2007**, 4, 999-1030 | 4.1 | 843 |
| 138 | Bioactive silicate nanoplatelets for osteogenic differentiation of human mesenchymal stem cells. *Advanced Materials*, **2013**, 25, 3329-36 | 24 | 365 |
| 137 | The stiffness of living tissues and its implications for tissue engineering. *Nature Reviews Materials*, **2020**, 5, 351-370 | 73.3 | 347 |
| 136 | The biocompatibility of novel starch-based polymers and composites: in vitro studies. *Biomaterials*, **2002**, 23, 1471-8 | 15.6 | 294 |
| 135 | Surface modification of electrospun polycaprolactone nanofiber meshes by plasma treatment to enhance biological performance. *Small*, **2009**, 5, 1195-206 | 11 | 196 |
| 134 | Hierarchical starch-based fibrous scaffold for bone tissue engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 37-42 | 4.4 | 170 |
| 133 | Osteogenic induction of hBMSCs by electrospun scaffolds with dexamethasone release functionality. *Biomaterials*, **2010**, 31, 5875-85 | 15.6 | 144 |
| 132 | Photocrosslinkable kappa-carrageenan hydrogels for tissue engineering applications. *Advanced Healthcare Materials*, **2013**, 2, 895-907 | 10.1 | 140 |
| 131 | Gellan gum injectable hydrogels for cartilage tissue engineering applications: in vitro studies and preliminary in vivo evaluation. *Tissue Engineering - Part A*, **2010**, 16, 343-53 | 3.9 | 120 |
| 130 | Inhibition of human neutrophil oxidative burst by pyrazolone derivatives. *Free Radical Biology and Medicine*, **2006**, 40, 632-40 | 7.8 | 120 |
| 129 | Effect of chitosan membrane surface modification via plasma induced polymerization on the adhesion of osteoblast-like cells. *Journal of Materials Chemistry*, **2007**, 17, 4064 | | 103 |
| 128 | An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. *Acta Biomaterialia*, **2013**, 9, 6790-7 | 10.8 | 98 |
| 127 | Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. *Materials Science and Engineering C*, **2014**, 43, 27-36 | 8.3 | 89 |
| 126 | Effect of monocytes/macrophages on the early osteogenic differentiation of hBMSCs. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 392-400 | 4.4 | 87 |
| 125 | The osteogenic differentiation of SSEA-4 sub-population of human adipose derived stem cells using silicate nanoplatelets. *Biomaterials*, **2014**, 35, 9087-99 | 15.6 | 83 |
| 124 | Stem Cells in Skin Wound Healing: Are We There Yet?. *Advances in Wound Care*, **2016**, 5, 164-175 | 4.8 | 77 |
| 123 | Polyhydroxybutyrate-co-hydroxyvalerate structures loaded with adipose stem cells promote skin healing with reduced scarring. *Acta Biomaterialia*, **2015**, 17, 170-81 | 10.8 | 74 |

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| 122 | The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. *Green Chemistry*, **2012**, 14, 1463 | 10 | 74 |
| 121 | Human adipose stem cells cell sheet constructs impact epidermal morphogenesis in full-thickness excisional wounds. *Biomacromolecules*, **2013**, 14, 3997-4008 | 6.9 | 71 |
| 120 | Gellan gum-hyaluronic acid spongy-like hydrogels and cells from adipose tissue synergize promoting neoskin vascularization. *ACS Applied Materials & Interfaces*, **2014**, 6, 19668-79 | 9.5 | 69 |
| 119 | Engineering cell-adhesive gellan gum spongy-like hydrogels for regenerative medicine purposes. *Acta Biomaterialia*, **2014**, 10, 4787-4797 | 10.8 | 64 |
| 118 | Spray-assisted layer-by-layer assembly on hyaluronic acid scaffolds for skin tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 330-40 | 5.4 | 62 |
| 117 | Hydrogel-Based Strategies to Advance Therapies for Chronic Skin Wounds. *Annual Review of Biomedical Engineering*, **2019**, 21, 145-169 | 12 | 57 |
| 116 | Cell sheet technology-driven re-epithelialization and neovascularization of skin wounds. *Acta Biomaterialia*, **2014**, 10, 3145-55 | 10.8 | 56 |
| 115 | Development of osteogenic cell sheets for bone tissue engineering applications. *Tissue Engineering - Part A*, **2011**, 17, 1507-15 | 3.9 | 56 |
| 114 | Performance of new gellan gum hydrogels combined with human articular chondrocytes for cartilage regeneration when subcutaneously implanted in nude mice. *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 493-500 | 4.4 | 56 |
| 113 | Cell selective chitosan microparticles as injectable cell carriers for tissue regeneration. *Biomaterials*, **2015**, 43, 23-31 | 15.6 | 55 |
| 112 | New biotextiles for tissue engineering: development, characterization and in vitro cellular viability. *Acta Biomaterialia*, **2013**, 9, 8167-81 | 10.8 | 55 |
| 111 | Silicon-hydroxyapatite bioactive coatings (Si-HA) from diatomaceous earth and silica. Study of adhesion and proliferation of osteoblast-like cells. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1131-6 | 4.5 | 52 |
| 110 | An in vivo study of the host response to starch-based polymers and composites subcutaneously implanted in rats. *Macromolecular Bioscience*, **2005**, 5, 775-85 | 5.5 | 51 |
| 109 | Surface Engineered Carboxymethylchitosan/Poly(amidoamine) Dendrimer Nanoparticles for Intracellular Targeting. *Advanced Functional Materials*, **2008**, 18, 1840-1853 | 15.6 | 50 |
| 108 | The effect of chitosan on the in vitro biological performance of chitosan-poly(butylene succinate) blends. *Biomacromolecules*, **2008**, 9, 1139-45 | 6.9 | 49 |
| 107 | Semipermeable Capsules Wrapping a Multifunctional and Self-regulated Co-culture Microenvironment for Osteogenic Differentiation. *Scientific Reports*, **2016**, 6, 21883 | 4.9 | 48 |
| 106 | Hydroxyapatite reinforcement of different starch-based polymers affects osteoblast-like cells adhesion/spreading and proliferation. *Materials Science and Engineering C*, **2005**, 25, 215-229 | 8.3 | 48 |
| 105 | Neovascularization Induced by the Hyaluronic Acid-Based Spongy-Like Hydrogels Degradation Products. *ACS Applied Materials & Interfaces*, **2016**, 8, 33464-33474 | 9.5 | 47 |

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| 104 | Evaluation of the in vitro and in vivo biocompatibility of carrageenan-based hydrogels. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4087-97 | 5.4 | 45 |
| 103 | Evaluation of the Potential of Collagen from Codfish Skin as a Biomaterial for Biomedical Applications. *Marine Drugs*, **2018**, 16, | 6 | 45 |
| 102 | Gellan Gum-Based Hydrogel Bilayered Scaffolds for Osteochondral Tissue Engineering. *Key Engineering Materials*, **2013**, 587, 255-260 | 0.4 | 43 |
| 101 | The influence of patterned nanofiber meshes on human mesenchymal stem cell osteogenesis. *Macromolecular Bioscience*, **2011**, 11, 978-87 | 5.5 | 43 |
| 100 | Surface modification of starch based blends using potassium permanganate-nitric acid system and its effect on the adhesion and proliferation of osteoblast-like cells. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 81-92 | 4.5 | 43 |
| 99 | Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 1-11 | 4.4 | 42 |
| 98 | Fabrication of endothelial cell-laden carrageenan microfibers for microvascularized bone tissue engineering applications. *Biomacromolecules*, **2014**, 15, 2849-60 | 6.9 | 41 |
| 97 | Perivascular-like cells contribute to the stability of the vascular network of osteogenic tissue formed from cell sheet-based constructs. *PLoS ONE*, **2012**, 7, e41051 | 3.7 | 41 |
| 96 | Unleashing the potential of supercritical fluids for polymer processing in tissue engineering and regenerative medicine. *Journal of Supercritical Fluids*, **2013**, 79, 177-185 | 4.2 | 41 |
| 95 | Surface modification of starch based biomaterials by oxygen plasma or UV-irradiation. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 21-32 | 4.5 | 41 |
| 94 | A novel enzymatically-mediated drug delivery carrier for bone tissue engineering applications: combining biodegradable starch-based microparticles and differentiation agents. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1617-23 | 4.5 | 41 |
| 93 | Stem Cell-Containing Hyaluronic Acid-Based Spongy Hydrogels for Integrated Diabetic Wound Healing. *Journal of Investigative Dermatology*, **2017**, 137, 1541-1551 | 4.3 | 40 |
| 92 | Gellan gum-hydroxyapatite composite spongy-like hydrogels for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 479-490 | 5.4 | 39 |
| 91 | Biodegradable nanofibers-reinforced microfibrous composite scaffolds for bone tissue engineering. *Tissue Engineering - Part A*, **2010**, 16, 3599-609 | 3.9 | 39 |
| 90 | In vitro evaluation of the behaviour of human polymorphonuclear neutrophils in direct contact with chitosan-based membranes. *Journal of Biotechnology*, **2007**, 132, 218-26 | 3.7 | 39 |
| 89 | Cell interactions in bone tissue engineering. *Journal of Cellular and Molecular Medicine*, **2010**, 14, 93-102 | 5.6 | 38 |
| 88 | Cytokine secretion from mononuclear cells cultured in vitro with starch-based polymers and poly-L-lactide. *Journal of Biomedical Materials Research Part B*, **2004**, 71, 419-29 | | 38 |
| 87 | Silk-based anisotropical 3D biotextiles for bone regeneration. *Biomaterials*, **2017**, 123, 92-106 | 15.6 | 37 |

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| 86 | Mastocarcinoma therapy synergistically promoted by lysosome dependent apoptosis specifically evoked by 5-Fu@nanogel system with passive targeting and pH activatable dual function. *Journal of Controlled Release*, **2017**, 254, 107-118 | 11.7 | 37 |
| 85 | In vivo performance of chitosan/soy-based membranes as wound-dressing devices for acute skin wounds. *Tissue Engineering - Part A*, **2013**, 19, 860-9 | 3.9 | 37 |
| 84 | Marine Collagen/Apatite Composite Scaffolds Envisaging Hard Tissue Applications. *Marine Drugs*, **2018**, 16, | 6 | 36 |
| 83 | Human adipose tissue-derived SSEA-4 subpopulation multi-differentiation potential towards the endothelial and osteogenic lineages. *Tissue Engineering - Part A*, **2013**, 19, 235-46 | 3.9 | 36 |
| 82 | In vivo short-term and long-term host reaction to starch-based scaffolds. *Acta Biomaterialia*, **2010**, 6, 4314-26 | 10.8 | 35 |
| 81 | Advanced therapies in wound management: cell and tissue based therapies, physical and bio-physical therapies smart and IT based technologies. *Journal of Wound Care*, **2018**, 27, S1-S137 | 2.2 | 33 |
| 80 | Human skin cell fractions fail to self-organize within a gellan gum/hyaluronic acid matrix but positively influence early wound healing. *Tissue Engineering - Part A*, **2014**, 20, 1369-78 | 3.9 | 33 |
| 79 | Influence of freezing temperature and deacetylation degree on the performance of freeze-dried chitosan scaffolds towards cartilage tissue engineering. *European Polymer Journal*, **2017**, 95, 232-240 | 5.2 | 33 |
| 78 | Biochemical Gradients to Generate 3D Heterotypic-Like Tissues with Isotropic and Anisotropic Architectures. *Advanced Functional Materials*, **2018**, 28, 1804148 | 15.6 | 33 |
| 77 | Endothelial cells enhance the in vivo bone-forming ability of osteogenic cell sheets. *Laboratory Investigation*, **2014**, 94, 663-73 | 5.9 | 32 |
| 76 | Boosting and rescuing epidermal superior population from fresh keratinocyte cultures. *Stem Cells and Development*, **2014**, 23, 34-43 | 4.4 | 30 |
| 75 | Using stem cells in skin regeneration: possibilities and reality. *Stem Cells and Development*, **2012**, 21, 1201-14 | 4.4 | 30 |
| 74 | Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. *Applied Materials Today*, **2018**, 12, 309-321 | 6.6 | 29 |
| 73 | Effect of starch-based biomaterials on the in vitro proliferation and viability of osteoblast-like cells. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 833-42 | 4.5 | 29 |
| 72 | Development of an injectable PHBV microparticles-GG hydrogel hybrid system for regenerative medicine. *International Journal of Pharmaceutics*, **2015**, 478, 398-408 | 6.5 | 26 |
| 71 | Tunable anisotropic networks for 3-D oriented neural tissue models. *Biomaterials*, **2018**, 181, 402-414 | 15.6 | 25 |
| 70 | Gellan Gum Hydrogels with Enzyme-Sensitive Biodegradation and Endothelial Cell Biorecognition Sites. *Advanced Healthcare Materials*, **2018**, 7, 1700686 | 10.1 | 24 |
| 69 | Platelet lysate-based pro-angiogenic nanocoatings. *Acta Biomaterialia*, **2016**, 32, 129-137 | 10.8 | 23 |

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| 68 | Synthesis and Characterization of Electroactive Gellan Gum Spongy-Like Hydrogels for Skeletal Muscle Tissue Engineering Applications. *Tissue Engineering - Part A*, **2017**, 23, 968-979 | 3.9 | 22 |
| 67 | Cell sheet engineering using the stromal vascular fraction of adipose tissue as a vascularization strategy. *Acta Biomaterialia*, **2017**, 55, 131-143 | 10.8 | 22 |
| 66 | Hyaluronan and self-assembling peptides as building blocks to reconstruct the extracellular environment in skin tissue. *Biomaterials Science*, **2013**, 1, 952-964 | 7.4 | 22 |
| 65 | In vivo osteogenic differentiation of stem cells inside compartmentalized capsules loaded with co-cultured endothelial cells. *Acta Biomaterialia*, **2017**, 53, 483-494 | 10.8 | 20 |
| 64 | Poly(hydroxybutyrate-co-hydroxyvalerate) bilayer skin tissue engineering constructs with improved epidermal rearrangement. *Macromolecular Bioscience*, **2014**, 14, 977-90 | 5.5 | 20 |
| 63 | Carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in central nervous systems-regenerative medicine: effects on neuron/glial cell viability and internalization efficiency. *Macromolecular Bioscience*, **2010**, 10, 1130-40 | 5.5 | 20 |
| 62 | Electroactive Gellan Gum/Polyaniline Spongy-Like Hydrogels. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1779-1787 | 5.5 | 17 |
| 61 | Vascular endothelial growth factor and fibroblast growth factor-2 incorporation in starch-based bone tissue-engineered constructs promote the in vivo expression of neovascularization mediators. *Tissue Engineering - Part A*, **2013**, 19, 834-48 | 3.9 | 17 |
| 60 | Bottom-up approach to construct microfabricated multi-layer scaffolds for bone tissue engineering. *Biomedical Microdevices*, **2014**, 16, 69-78 | 3.7 | 16 |
| 59 | Evaluation of the potential of starch-based biodegradable polymers in the activation of human inflammatory cells. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 167-73 | 4.5 | 16 |
| 58 | The effect of starch-based biomaterials on leukocyte adhesion and activation in vitro. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 1029-43 | 4.5 | 16 |
| 57 | Influence of different surface modification treatments on silk biotextiles for tissue engineering applications. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 496-507 | 3.5 | 16 |
| 56 | A two-component pre-seeded dermal-epidermal scaffold. *Acta Biomaterialia*, **2014**, 10, 4928-4938 | 10.8 | 15 |
| 55 | Control of osmotic pressure to improve cell viability in cell-laden tissue engineering constructs. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1063-e1067 | 4.4 | 14 |
| 54 | Engineering Hydrogel-Based Biomedical Photonics: Design, Fabrication, and Applications. *Advanced Materials*, **2021**, 33, e2006582 | 24 | 14 |
| 53 | High-throughput fabrication of cell-laden 3D biomaterial gradients. *Materials Horizons*, **2020**, 7, 2414-2421 | 14.4 | 13 |
| 52 | Chitosan improves the biological performance of soy-based biomaterials. *Tissue Engineering - Part A* , **2010**, 16, 2883-90 | 3.9 | 13 |
| 51 | Eumelanin-releasing spongy-like hydrogels for skin re-epithelialization purposes. *Biomedical Materials (Bristol)*, **2017**, 12, 025010 | 3.5 | 12 |

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| 50 | Adipose stem cell-derived osteoblasts sustain the functionality of endothelial progenitors from the mononuclear fraction of umbilical cord blood. *Acta Biomaterialia*, **2013**, 9, 5234-42 | 10.8 | 12 |
| 49 | Cork extracts reduce UV-mediated DNA fragmentation and cell death. *RSC Advances*, **2015**, 5, 96151-96157 | 3.7 | 11 |
| 48 | Strategies for the hypothermic preservation of cell sheets of human adipose stem cells. *PLoS ONE*, **2019**, 14, e0222597 | 3.7 | 11 |
| 47 | Human mesenchymal stem cells response to multi-doped silicon-strontium calcium phosphate coatings. *Journal of Biomaterials Applications*, **2014**, 28, 1397-407 | 2.9 | 11 |
| 46 | Fibroblasts regulate osteoblasts through gap junctional communication. *Cytotherapy*, **2012**, 14, 1276-87 | 4.8 | 11 |
| 45 | Engineering Polysaccharide-Based Hydrogel Photonic Constructs: From Multiscale Detection to the Biofabrication of Living Optical Fibers. *Advanced Materials*, **2021**, e2105361 | 24 | 10 |
| 44 | Stem Cells for Osteochondral Regeneration. *Advances in Experimental Medicine and Biology*, **2018**, 1059, 219-240 | 3.6 | 8 |
| 43 | Modulating cell adhesion to polybutylene succinate biotextile constructs for tissue engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2853-2863 | 4.4 | 8 |
| 42 | The Crosstalk between Tissue Engineering and Pharmaceutical Biotechnology: Recent Advances and Future Directions. *Current Pharmaceutical Biotechnology*, **2015**, 16, 1012-23 | 2.6 | 8 |
| 41 | 3D-Printed Gelatin Methacrylate Scaffolds with Controlled Architecture and Stiffness Modulate the Fibroblast Phenotype towards Dermal Regeneration. *Polymers*, **2021**, 13, | 4.5 | 8 |
| 40 | Bioreactors and Microfluidics for Osteochondral Interface Maturation. *Advances in Experimental Medicine and Biology*, **2018**, 1059, 395-420 | 3.6 | 7 |
| 39 | Interactive endothelial phenotype maintenance and osteogenic differentiation of adipose tissue stromal vascular fraction SSEA-4 -derived cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1998-2013 | 4.4 | 6 |
| 38 | Growth Factor-Free Pre-vascularization of Cell Sheets for Tissue Engineering. *Methods in Molecular Biology*, **2016**, 1516, 219-226 | 1.4 | 6 |
| 37 | Vascularization in skin wound healing: where do we stand and where do we go?. *Current Opinion in Biotechnology*, **2021**, 73, 253-262 | 11.4 | 6 |
| 36 | Epidermis recreation in spongy-like hydrogels. *Materials Today*, **2015**, 18, 468-469 | 21.8 | 5 |
| 35 | Fucoidan Immobilized at the Surface of a Fibrous Mesh Presents Toxic Effects over Melanoma Cells, But Not over Noncancer Skin Cells. *Biomacromolecules*, **2020**, 21, 2745-2754 | 6.9 | 5 |
| 34 | Tailoring Gellan Gum Spongy-Like HydrogelsTMicrostructure by Controlling Freezing Parameters. *Polymers*, **2020**, 12, | 4.5 | 5 |
| 33 | Osteochondral Tissue Engineering and Regenerative Strategies. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2017**, 213-233 | 0.5 | 5 |

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| 32 | Interfollicular epidermal stem cells: boosting and rescuing from adult skin. *Methods in Molecular Biology*, **2013**, 989, 1-9 | 1.4 | 5 |
| 31 | Cartilage and Bone Regeneration How Close Are We to Bedside? **2016**, 89-106 | | 4 |
| 30 | Interfollicular Epidermal Stem Cells: Boosting and Rescuing from Adult Skin. *Methods in Molecular Biology*, **2019**, 1879, 101-110 | 1.4 | 4 |
| 29 | Presence of starch enhances in vitro biodegradation and biocompatibility of a gentamicin delivery formulation. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 1610-20 | 3.5 | 4 |
| 28 | Wound Healing Microenvironmental Cues: From Tissue Analogs to Skin Regeneration. *Current Tissue Engineering*, **2013**, 2, 145-153 | | 4 |
| 27 | Dermal papilla cells and melanocytes response to physiological oxygen levels depends on their interactions. *Cell Proliferation*, **2021**, 54, e13013 | 7.9 | 4 |
| 26 | 3D flow-focusing microfluidic biofabrication: One-chip-fits-all hydrogel fiber architectures. *Applied Materials Today*, **2021**, 23, 101013 | 6.6 | 4 |
| 25 | Generation of Gellan Gum-Based Adipose-Like Microtissues. *Bioengineering*, **2018**, 5, | 5.3 | 3 |
| 24 | Engineered hydrogel-based matrices for skin wound healing **2016**, 227-250 | | 3 |
| 23 | Rescuing key native traits in cultured dermal papilla cells for human hair regeneration. *Journal of Advanced Research*, **2021**, 30, 103-112 | 13 | 3 |
| 22 | Interfollicular epidermal stem-like cells for the recreation of the hair follicle epithelial compartment. *Stem Cell Research and Therapy*, **2021**, 12, 62 | 8.3 | 3 |
| 21 | Pushing the Natural Frontier: Progress on the Integration of Biomaterial Cues towards Combinatorial Biofabrication and Tissue Engineering.. *Advanced Materials*, **2022**, e2105645 | 24 | 3 |
| 20 | Depth (Z-axis) control of cell morphologies on micropatterned surfaces. *Journal of Bioactive and Compatible Polymers*, **2015**, 30, 555-567 | 2 | 2 |
| 19 | Skin Mechanobiology and Biomechanics: From Homeostasis to Wound Healing **2019**, 343-360 | | 2 |
| 18 | Biocompatibility of starch-based polymers **2008**, 738-760 | | 2 |
| 17 | Microscopy-guided laser ablation for the creation of complex skin models with folliculoid appendages. *Bioengineering and Translational Medicine*, **2021**, 6, e10195 | 14.8 | 2 |
| 16 | In vitro vascularization of tissue engineered constructs by non-viral delivery of pro-angiogenic genes. *Biomaterials Science*, **2021**, 9, 2067-2081 | 7.4 | 2 |
| 15 | 3DICE coding matrix multidirectional macro-architecture modulates cell organization, shape, and co-cultures endothelization network. *Biomaterials*, **2021**, 277, 121112 | 15.6 | 2 |

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| 14 | Can host reaction animal models be used to predict and modulate skin regeneration?. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2295-2303 | 4.4 | 1 |
| 13 | Regeneration Using Tissue Engineered Skin Strategies **2020**, 255-289 | | 1 |
| 12 | Responsive Polymer Coatings for Smart Applications in Chromatography, Drug Delivery Systems, and Cell Sheet Engineering **2012**, 321-354 | | 1 |
| 11 | 3D Printed Scaffolds Incorporated with Platelet-Rich Plasma Show Enhanced Angiogenic Potential while not Inducing Fibrosis. *Advanced Functional Materials*,2109915 | 15.6 | 1 |
| 10 | Microfluidics for Processing of Biomaterials. *Advances in Experimental Medicine and Biology*, **2020**, 1230, 15-25 | 3.6 | 1 |
| 9 | Convection patterns gradients of non-living and living micro-entities in hydrogels. *Applied Materials Today*, **2020**, 21, 100859 | 6.6 | 1 |
| 8 | Hydrogels in Bone Tissue Engineering: A Multi-Parametric Approach **2016**, 165-197 | | 1 |
| 7 | Keratinocyte Growth Factor-Based Strategies for Wound Re-Epithelialization. *Tissue Engineering - Part B: Reviews*, **2021**, | 7.9 | 1 |
| 6 | Recreation of a hair follicle regenerative microenvironment: Successes and pitfalls.. *Bioengineering and Translational Medicine*, **2022**, 7, e10235 | 14.8 | 0 |
| 5 | Endothelial Progenitor Cells and Their Niches **2019**, 423-423 | | |
| 4 | Skin in vitro models to study dermal white adipose tissue role in skin healing **2018**, 327-352 | | |
| 3 | In vivo tissue responses to natural-origin biomaterials **2008**, 683-698 | | |
| 2 | 3D in vitro cutaneous melanoma models **2020**, 287-303 | | |
| 1 | Biofabrication Technologies in Hair Neoformation. *Pancreatic Islet Biology*, **2022**, 255-274 | 0.4 | |