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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.

65 papers	2,128 citations	25 h-index	45 g-index
68 ext. papers	2,467 ext. citations	6 avg, IF	4.97 L-index

#	Paper	IF	Citations
65	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. <i>Acta Biomaterialia</i> , 2012 , 8, 289-301	10.8	237
64	Development of silk-based scaffolds for tissue engineering of bone from human adipose-derived stem cells. <i>Acta Biomaterialia</i> , 2012 , 8, 2483-92	10.8	184
63	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. <i>Acta Biomaterialia</i> , 2015 , 12, 227-241	10.8	115
62	A comparative analysis of scaffold material modifications for load-bearing applications in bone tissue engineering. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2006 , 35, 928-34	2.9	112
61	Sodium silicate gel as a precursor for the in vitro nucleation and growth of a bone-like apatite coating in compact and porous polymeric structures. <i>Biomaterials</i> , 2003 , 24, 2575-84	15.6	112
60	Nature-inspired calcium phosphate coatings: present status and novel advances in the science of mimicry. <i>Current Opinion in Solid State and Materials Science</i> , 2003 , 7, 309-318	12	86
59	Aligned silk-based 3-D architectures for contact guidance in tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 1530-42	10.8	77
58	Strontium-substituted apatite coating grown on Ti6Al4V substrate through biomimetic synthesis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 83, 258-65	3.5	72
57	Combinatory approach for developing silk fibroin scaffolds for cartilage regeneration. <i>Acta Biomaterialia</i> , 2018 , 72, 167-181	10.8	68
56	Enzymatically Cross-Linked Silk Fibroin-Based Hierarchical Scaffolds for Osteochondral Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3781-3799	9.5	57
55	New biotextiles for tissue engineering: development, characterization and in vitro cellular viability. <i>Acta Biomaterialia</i> , 2013 , 9, 8167-81	10.8	55
54	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. <i>Nanomedicine</i> , 2013 , 8, 359-78	5.6	53
53	Nucleation and growth of biomimetic apatite layers on 3D plotted biodegradable polymeric scaffolds: effect of static and dynamic coating conditions. <i>Acta Biomaterialia</i> , 2009 , 5, 1626-38	10.8	51
52	Supercritical CO technology: The next standard sterilization technique?. <i>Materials Science and Engineering C</i> , 2019 , 99, 520-540	8.3	50
51	Current Concepts and Challenges in Osteochondral Tissue Engineering and Regenerative Medicine. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 183-200	5.5	50
50	Surface modification tailors the characteristics of biomimetic coatings nucleated on starch-based polymers. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 827-35	4.5	50
49	Tumor Growth Suppression Induced by Biomimetic Silk Fibroin Hydrogels. <i>Scientific Reports</i> , 2016 , 6, 31037	4.9	48

48	In situ crosslinked electrospun gelatin nanofibers for skin regeneration. <i>European Polymer Journal</i> , 2017 , 95, 161-173	5.2	47
47	Micro-computed tomography (micro-CT) as a potential tool to assess the effect of dynamic coating routes on the formation of biomimetic apatite layers on 3D-plotted biodegradable polymeric scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 211-23	4.5	38
46	Silk-based anisotropical 3D biotextiles for bone regeneration. <i>Biomaterials</i> , 2017 , 123, 92-106	15.6	37
45	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. <i>PLoS ONE</i> , 2018 , 13, e0194441	3.7	37
44	A new era for sterilization based on supercritical CO technology. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 399-428	3.5	34
43	Cell adhesion and proliferation on biomimetic calcium-phosphate coatings produced by a sodium silicate gel methodology. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1181-8	4.5	27
42	De novo bone formation on macro/microporous silk and silk/nano-sized calcium phosphate scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 439-452	2	26
41	Pre-mineralisation of starch/polycaprolactone bone tissue engineering scaffolds by a calcium-silicate-based process. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 533-40	4.5	26
40	Sterile and Dual-Porous Aerogels Scaffolds Obtained through a Multistep Supercritical CO ₂ Based Approach. <i>Molecules</i> , 2019 , 24,	4.8	24
39	Biomimetic Ca-P coatings incorporating bisphosphonates produced on starch-based degradable biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 92, 55-67	3.5	24
38	Peripheral mineralization of a 3D biodegradable tubular construct as a way to enhance guidance stabilization in spinal cord injury regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2821-30	4.5	21
37	Core-shell silk hydrogels with spatially tuned conformations as drug-delivery system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3168-3177	4.4	20
36	Silk Fibroin/Nano-CaP Bilayered Scaffolds for Osteochondral Tissue Engineering. <i>Key Engineering Materials</i> , 2013 , 587, 245-248	0.4	19
35	In vitro evaluation of the biological performance of macro/micro-porous silk fibroin and silk-nano calcium phosphate scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 888-98	3.5	19
34	Enabling Approaches for Tissue Regeneration: Current Challenges and New Developments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 85	5.8	19
33	Ultrasound sonication prior to electrospinning tailors silk fibroin/PEO membranes for periodontal regeneration. <i>Materials Science and Engineering C</i> , 2019 , 98, 969-981	8.3	18
32	Biomechanical performance of hybrid electrospun structures for skin regeneration. <i>Materials Science and Engineering C</i> , 2018 , 93, 816-827	8.3	16
31	Influence of different surface modification treatments on silk biotextiles for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 496-507	3.5	16

30	Development of Composite Scaffolds Based on Cerium Doped-Hydroxyapatite and Natural Gums-Biological and Mechanical Properties. <i>Materials</i> , 2019 , 12,	3.5	15
29	Polyphenols: A Promising Avenue in Therapeutic Solutions for Wound Care. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1230	2.6	15
28	Recent Advances in Silk Sericin/Calcium Phosphate Biomaterials. <i>Frontiers in Materials</i> , 2020 , 7,	4	11
27	Hydroxyapatite/sericin composites: A simple synthesis route under near-physiological conditions of temperature and pH and preliminary study of the effect of sericin on the biomineralization process. <i>Materials Science and Engineering C</i> , 2020 , 108, 110400	8.3	11
26	Study of the influence of beta-radiation on the properties and mineralization of different starch-based biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 74, 560-9	3.5	10
25	New prospects in skin regeneration and repair using nanophased hydroxyapatite embedded in collagen nanofibers. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 33, 102353	6	10
24	Bi-composite sandwich moldings: processing, mechanical performance and bioactive behavior. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 385-97	4.5	9
23	Protein-Based Hydroxyapatite Materials: Tuning Composition toward Biomedical Applications.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 3441-3455	4.1	8
22	Silk-Fibroin/Methacrylated Gellan Gum Hydrogel As An Novel Scaffold For Application In Meniscus Cell-Based Tissue Engineering. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2013 , 29, e53-e54	5.4	8
21	Modulating cell adhesion to polybutylene succinate biotextile constructs for tissue engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2853-2863	4.4	8
20	Fast decellularization process using supercritical carbon dioxide for trabecular bone. <i>Journal of Supercritical Fluids</i> , 2021 , 172, 105194	4.2	8
19	Modified chicha gum by acetylation for antimicrobial and antiparasitic applications: Characterization and biological properties. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 1177-1188	7.9	7
18	Forming Silk Sericin-Based Hydrogel: A Novel Wound Healing Biomaterial. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1573-1586	5.5	7
17	Bioaerogels: Promising Nanostructured Materials in Fluid Management, Healing and Regeneration of Wounds. <i>Molecules</i> , 2021 , 26,	4.8	7
16	Thermal annealed silk fibroin membranes for periodontal guided tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 27	4.5	7
15	Continuous-flow precipitation as a route to prepare highly controlled nanohydroxyapatite:in vitromineralization and biological evaluation. <i>Materials Research Express</i> , 2016 , 3, 075404	1.7	6
14	Glycerylphytate crosslinker as a potential osteoinductor of chitosan-based systems for guided bone regeneration. <i>Carbohydrate Polymers</i> , 2020 , 241, 116269	10.3	5
13	Antimicrobial Properties of Gallium(III)- and Iron(III)-Loaded Polysaccharides Affecting the Growth of , and , In Vitro.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 7589-7597	4.1	5

12	Development of composites scaffolds with calcium and cerium-hydroxyapatite and gellan gum. <i>Ceramics International</i> , 2020 , 46, 3811-3817	5.1	5
11	Phthalic anhydride esterified chicha gum: characterization and antibacterial activity. <i>Carbohydrate Polymers</i> , 2021 , 251, 117077	10.3	5
10	Current Trends on Protein Driven Bioinks for 3D Printing. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
9	Effect of Cerium-Containing Hydroxyapatite in Bone Repair in Female Rats with Osteoporosis Induced by Ovariectomy. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 377	2.4	4
8	Surface Treatments and Pre-Calcification Routes to Enhance Cell Adhesion and Proliferation 2002 , 183-217		3
7	Contributions of supercritical fluid technology for advancing decellularization and postprocessing of viable biological materials.. <i>Materials Horizons</i> , 2021 ,	14.4	2
6	Fabrication of calcium phosphates with controlled properties using a modular oscillatory flow reactor. <i>Chemical Engineering Research and Design</i> , 2022 , 183, 90-103	5.5	1
5	Vitamin B9 derivatives as carriers of bioactive cations for musculoskeletal regeneration applications: Synthesis, characterization and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2021 , 212, 113152	6.8	0
4	Learning from Nature How to Design Biomimetic Calcium-Phosphate Coatings 2004 , 123-150		
3	Coatings: Bonelike Apatite via Biodegradable Polymer-Nucleated1834-1846		
2	Estrategias de mercadeo en asociaciones agropecuarias colombianas. <i>Revista Venezolana De Gerencia</i> , 2022 , 27, 713-728	1.6	
1	Research, development and future trends for medical textile products 2022 , 795-828		