Citation Report
List of articles citing

Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications

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#	Paper	IF	Citations
257	Calcium Ion Treatment Behavior of Silk Fibroin/Sodium Alginate Scaffolds. **2012**, 528, 107-112		1
256	Development of silk-based scaffolds for tissue engineering of bone from human adipose-derived stem cells. *Acta Biomaterialia*, **2012**, 8, 2483-92	10.8	184
255	Abstracts List. **2012**, 6, 8-39		5
254	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. **2012**, 2, 278-89		122
253	Silk fibroin as a biomaterial substrate for corneal epithelial cell sheet generation. **2012**, 53, 4130-8		66
252	Computer aided modeling and pore distribution of bionic porous bone structure. **2012**, 19, 3492-3499		6
251	Salt-leached silk scaffolds with tunable mechanical properties. **2012**, 13, 3723-9		76
250	Emerging technologies for assembly of microscale hydrogels. **2012**, 1, 149-158		74
249	Chondrogenic differentiation of rat MSCs on porous scaffolds of silk fibroin/chitosan blends. **2012**, 33, 2848-57		138
248	Synthesis and characterization of sensitive hydrogels based on semi-interpenetrated networks of poly[2-ethyl-(2-pyrrolidone) methacrylate] and hyaluronic acid. **2013**, 101, 157-66		11
247	Tailoring Silk-Based Matrices for Tissue Regeneration. **2013**, 281-299		1
246	Preparation of silk fibroin/collagen/hydroxyapatite composite scaffold by particulate leaching method. **2013**, 105, 189-191		27
245	Preparation of chitosan/silk fibroin/hydroxyapatite porous scaffold and its characteristics in comparison to bi-component scaffolds. **2013**, n/a-n/a		
244	Meniscal Transplantation. **2013**,		3
243	Composition optimization of polyvinyl alcohol/rice starch/silk fibroin-blended films for improving its eco-friendly packaging properties. **2013**, 129, 2614-2620		21
242	Optimization strategies on the structural modeling of gelatin/chitosan scaffolds to mimic human meniscus tissue. *Materials Science and Engineering C*, **2013**, 33, 4777-85	8.3	58
241	Facile fabrication of the porous three-dimensional regenerated silk fibroin scaffolds. *Materials Science and Engineering C*, **2013**, 33, 3522-9	8.3	27

240	Synthetic meniscus replacement: a review. **2013**, 37, 291-9		87
239	Meniscus reconstruction: todayTs achievements and premises for the future. **2013**, 133, 95-109		30
238	Silk Fibroin/Nano-CaP Bilayered Scaffolds for Osteochondral Tissue Engineering. **2013**, 587, 245-248		19
237	Opening-Wedge High Tibial Osteotomy Changes 3D Knee Kinematics. **2013**, 29, e55-e56		
236	De novo bone formation on macro/microporous silk and silk/nano-sized calcium phosphate scaffolds. **2013**, 28, 439-452		26
235	Laser Technology in Biomimetics. **2013**,		8
234	Collagen grafted 3D polycaprolactone scaffolds for enhanced cartilage regeneration. **2013**, 1, 5971-5976		41
233	Tissue engineering and regenerative medicine: past, present, and future. **2013**, 108, 1-33		69
232	Design and engineering of silk fibroin scaffolds with biomimetic hierarchical structures. **2013**, 49, 1431-3		27
231	Release behavior of a composite of silk fibroin and nano-Ag and its biocompatibility. **2013**, 172, e145-e146		2
230	Silk-Fibroin/Methacrylated Gellan Gum Hydrogel As An Novel Scaffold For Application In Meniscus Cell-Based Tissue Engineering. **2013**, 29, e53-e55		8
229	Ionic liquids-based processing of electrically conducting chitin nanocomposite scaffolds for stem cell growth. **2013**, 15, 1192		28
228	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. **2013**, 8, 359-78		53
227	PLDLA/PCL-T Scaffold for Meniscus Tissue Engineering. **2013**, 2, 138-47		74
226	Imaging challenges in biomaterials and tissue engineering. **2013**, 34, 6615-30		198
225	New biotextiles for tissue engineering: development, characterization and in vitro cellular viability. *Acta Biomaterialia*, **2013**, 9, 8167-81	10.8	55
224	Fabrication and characterization of three-dimensional silk fibroin scaffolds using a mixture of salt/sucrose. **2014**, 22, 1268-1274		8
223	[Physical characterization of decellularized cartilage matrix for reconstructive rhinosurgery]. **2014**, 93, 756-63		6

222	Fabrication of poly(lactic-co-glycolic acid) scaffolds containing silk fibroin scaffolds for tissue engineering applications. **2014**, 102, 2713-24		18
221	Protein-based materials in load-bearing tissue-engineering applications. **2014**, 9, 687-701		22
220	Silk proteins for biomedical applications: Bioengineering perspectives. **2014**, 39, 251-267		293
219	Nanostructured hollow tubes based on chitosan and alginate multilayers. **2014**, 3, 433-40		46
218	Porous starch/cellulose nanofibers composite prepared by salt leaching technique for tissue engineering. **2014**, 108, 232-8		120
217	Fabrication of highly interconnected porous silk fibroin scaffolds for potential use as vascular grafts. *Acta Biomaterialia*, **2014**, 10, 2014-23	10.8	91
216	Silk fibroin porous scaffolds for nucleus pulposus tissue engineering. *Materials Science and Engineering C*, **2014**, 37, 232-40	8.3	25
215	Cytocompatibility of a silk fibroin tubular scaffold. *Materials Science and Engineering C*, **2014**, 34, 429-36	8.3	51
214	Biomimicking the structure of silk fibers via cellulose nanocrystal as □sheet crystallite. **2014**, 4, 14304-14313		39
213	Preparation and in vitro characterization of biomorphic silk fibroin scaffolds for bone tissue engineering. **2014**, 102, 2961-71		20
212	Biomedical Applications of Mulberry Silk and its Proteins: A Review. **2014**, 95, 57-61		2
211	Scaffold-based regeneration of skeletal tissues to meet clinical challenges. **2014**, 2, 7272-7306		74
210	Processing of Bombyx mori silk for biomedical applications. **2014**, 78-99		14
209	Fabrication of microporous chitosan/silk fibroin as a scaffold material using electron beam. **2014**, 22, 717-724		4
208	Silk sericin microparticles as a biosorbent for hexavalent chromium ion. **2014**, 22, 788-795		15
207	A multilayer tissue engineered meniscus substitute. **2014**, 25, 1195-209		12
206	Applications of silk biomaterials in tissue engineering and regenerative medicine. **2014**, 41-77		15
205	Current concepts: tissue engineering and regenerative medicine applications in the ankle joint. **2014**, 11, 20130784		46

204	Silk fibroin-chondroitin sulfate-alginate porous scaffolds: Structural properties and in vitro studies. **2014**, 131,		21
203	Biomaterials in search of a meniscus substitute. **2014**, 35, 3527-40		76
202	Preparation of chitosan/silk fibroin/hydroxyapatite porous scaffold and its characteristics in comparison to bi-component scaffolds. **2014**, 102, 366-72		35
201	A mimicked collagen layer/silk fibroin film as a cardio patch scaffold. *Bioinspired, Biomimetic and Nanobiomaterials*, **2014**, 3, 217-227	1.3	2
200	- Hydrogels: Characteristics and Properties. **2014**, 356-405		
199	Conformation of Crystalline and Noncrystalline Domains of [3-13C]Ala-, [3-13C]Ser-, and [3-13C]Tyr-Bombyx mori Silk Fibroin in a Hydrated State Studied with 13C DD/MAS NMR. **2015**, 48, 8062-8069		30
198	Bombyx mori Silk Fibers: An Outstanding Family of Materials. **2015**, 300, 1171-1198		66
197	Effect of pore sizes of silk scaffolds for cartilage tissue engineering. **2015**, 23, 1091-1097		39
196	In vitro evaluation of the biological performance of macro/micro-porous silk fibroin and silk-nano calcium phosphate scaffolds. **2015**, 103, 888-98		19
195	Natural-based nanocomposites for bone tissue engineering and regenerative medicine: a review. *Advanced Materials*, **2015**, 27, 1143-69	24	565
194	Hemocompatibility and cytocompatibility of the hirudin-modified silk fibroin. **2015**, 103, 556-62		16
193	Delivery of demineralized bone matrix powder using a salt-leached silk fibroin carrier for bone regeneration. **2015**, 3, 3177-3188		19
192	High resolution X-ray tomography three-dimensional characterisation of cellscaffold constructs for cartilage tissue engineering. **2015**, 31, 167-173		11
191	Nanostructured Pluronic hydrogels as bioinks for 3D bioprinting. **2015**, 7, 035006		217
190	Structural Determination of the Tandem Repeat Motif in Samia cynthia ricini Liquid Silk by Solution NMR. **2015**, 48, 6574-6579		17
189	Scaffolds drive meniscus tissue engineering. **2015**, 5, 77851-77859		21
188	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. *Acta Biomaterialia*, **2015**, 12, 227-241	10.8	115
187	Osteoinductive-nanoscaled silk/HA composite scaffolds for bone tissue engineering application. **2015**, 103, 1402-14		30

186	Scaffold structure and fabrication method affect proinflammatory milieu in three-dimensional-cultured chondrocytes. **2015**, 103, 534-44		8
185	A versatile bioink for three-dimensional printing of cellular scaffolds based on thermally and photo-triggered tandem gelation. *Acta Biomaterialia*, **2015**, 11, 162-72	10.8	197
184	Spermine-modified Antheraea pernyi silk fibroin as a gene delivery carrier. **2016**, 11, 1013-23		9
183	Construction and Characterization of Three-Dimensional Silk Fibroin-Gelatin Scaffolds. **2016**, 25, 269-276		5
182	Influence of different surface modification treatments on silk biotextiles for tissue engineering applications. **2016**, 104, 496-507		16
181	A Biomimetic Silk Fibroin/Sodium Alginate Composite Scaffold for Soft Tissue Engineering. **2016**, 6, 39477		89
180	Preparation and characterization of Ceftazidime loaded electrospun silk fibroin/gelatin mat for wound dressing. **2016**, 17, 744-750		38
179	Sonication induced silk fibroin cryogels for tissue engineering applications. **2016**, 3, 055401		21
178	Surgery of the Meniscus. **2016**,		9
177	Gene Therapy, Growth Factors, Mesenchymal Cells, New Trends and Future Perspectives. **2016**, 559-575		1
176	Constructed silk fibroin scaffolds to mimic adipose tissue as engineered implantation materials in post-subcutaneous tumor removal. **2016**, 106, 428-435		13
175	Building the basis for patient-specific meniscal scaffolds: From human knee MRI to fabrication of 3D printed scaffolds. **2016**, 1-2, 1-10		43
174	Nanocellulose-Based Interpenetrating Polymer Network (IPN) Hydrogels for Cartilage Applications. **2016**, 17, 3714-3723		119
173	Role of scaffold mean pore size in meniscus regeneration. *Acta Biomaterialia*, **2016**, 43, 314-326	10.8	89
172	Three-dimensional electrospun silk-fibroin nanofiber for skin tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 93, 1567-1574	7.9	101
171	Natural Polymers: Tissue Engineering. **2016**, 5619-5647		
170	Silk: A Unique Family of Biopolymers. **2016**, 127-141		1
169	Tumor Growth Suppression Induced by Biomimetic Silk Fibroin Hydrogels. **2016**, 6, 31037		48

168	Silk Fibroin Degradation Related to Rheological and Mechanical Properties. **2016**, 16, 666-75		43
167	Cartilage and Bone Regeneration How Close Are We to Bedside?. **2016**, 89-106		4
166	Cell growth and proliferation on the interface of a silk fabric tubular scaffold. **2016**, 86, 2193-2201		8
165	Articular cartilage: from formation to tissue engineering. *Biomaterials Science*, **2016**, 4, 734-67	7.4	164
164	Foams Made of Engineered Recombinant Spider Silk Proteins as 3D Scaffolds for Cell Growth. **2016**, 2, 517-525		34
163	Collagen/silk fibroin composite scaffold incorporated with PLGA microsphere for cartilage repair. *Materials Science and Engineering C*, **2016**, 61, 705-11	8.3	75
162	Biosynthesis and characterization of a non-repetitive polypeptide derived from silk fibroin heavy chain. *Materials Science and Engineering C*, **2016**, 59, 278-285	8.3	15
161	Silk scaffolds for musculoskeletal tissue engineering. **2016**, 241, 238-45		42
160	Recent advances using gold nanoparticles as a promising multimodal tool for tissue engineering and regenerative medicine. **2017**, 21, 92-112		85
159	Silk fibroin for vascular regeneration. **2017**, 80, 280-290		31
158	Treatments of Meniscus Lesions of the Knee: Current Concepts and Future Perspectives. **2017**, 3, 32-50		12
157	Overview: State of the Art and Future Prospectives for Cartilage Repair. **2017**, 1-34		4
156	Biomacromolecule based nanoscaffolds for cell therapy. **2017**, 37, 61-66		15
155	Core-shell silk hydrogels with spatially tuned conformations as drug-delivery system. **2017**, 11, 3168-3177		20
154	Fabrication and Handling of 3D Scaffolds Based on Polymers and Decellularized Tissues. **2017**, 1035, 71-81		11
153	The combined strategy of mesenchymal stem cells and tissue-engineered scaffolds for spinal cord injury regeneration. **2017**, 14, 3355-3368		20
152	Peripheral Nerve Injury: Current Challenges, Conventional Treatment Approaches, and New Trends in Biomaterials-Based Regenerative Strategies. **2017**, 3, 3098-3122		37
151	Silk scaffolds in bone tissue engineering: An overview. *Acta Biomaterialia*, **2017**, 63, 1-17	10.8	158

150	Electroactive 3D Scaffolds Based on Silk Fibroin and Water-Borne Polyaniline for Skeletal Muscle Tissue Engineering. **2017**, 17, 1700147		43
149	Micro-computed tomography characterization of tissue engineering scaffolds: effects of pixel size and rotation step. **2017**, 28, 129		19
148	Tailorable Surface Morphology of 3D Scaffolds by Combining Additive Manufacturing with Thermally Induced Phase Separation. **2017**, 38, 1700186		9
147	Fast Setting Silk Fibroin Bioink for Bioprinting of Patient-Specific Memory-Shape Implants. **2017**, 6, 1701021		41
146	Synergistic effect of electrical conductivity and biomolecules on human meniscal cell attachment, growth, and proliferation in poly-ɛcaprolactone nanocomposite scaffolds. *Biomedical Materials (Bristol)*, **2017**, 12, 065001	3.5	18
145	Random lasing from structurally-modulated silk fibroin nanofibers. **2017**, 7, 4506		12
144	Investigation of different cross-linking approaches on 3D gelatin scaffolds for tissue engineering application: A comparative analysis. *International Journal of Biological Macromolecules*, **2017**, 95, 1199-1209	7.9	39
143	Cartilage Tissue Engineering and Regenerative Strategies. **2017**, 73-96		1
142	Biomaterials in Meniscus Tissue Engineering. **2017**, 249-270		5
141	Advances in Biomaterials for the Treatment of Articular Cartilage Defects. **2017**, 97-126		
140	Pre-clinical and Clinical Management of Osteochondral Lesions. **2017**, 147-161		5
139	Management of knee osteoarthritis. Current status and future trends. **2017**, 114, 717-739		53
138	An Overview of Scaffold Design and Fabrication Technology for Engineered Knee Meniscus. **2017**, 10,		44
137	4.7 Real-Time Analysis of Biomaterials Function. **2017**, 85-100		
136	A Review of Structure Construction of Silk Fibroin Biomaterials from Single Structures to Multi-Level Structures. **2017**, 18,		228
135	Tissue engineering of human knee meniscus using functionalized and reinforced silk-polyvinyl alcohol composite three-dimensional scaffolds: Understanding the in vitro and in vivo behavior. **2018**, 106, 1722-1731		29
134	Layers and Multilayers of Self-Assembled Polymers: Tunable Engineered Extracellular Matrix Coatings for Neural Cell Growth. **2018**, 34, 8709-8730		29
133	Biopolymers and polymers in the search of alternative treatments for meniscal regeneration: State of the art and future trends. **2018**, 12, 51-71		65

132	Current Concepts in Meniscus Tissue Engineering and Repair. **2018**, 7, e1701407		57
131	Combinatory approach for developing silk fibroin scaffolds for cartilage regeneration. *Acta Biomaterialia*, **2018**, 72, 167-181	10.8	68
130	Design and fabrication of injectable microcarriers composed of acellular cartilage matrix and chitosan. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 683-700	3.5	18
129	Silk Fibroin-Based Hydrogels and Scaffolds for Osteochondral Repair and Regeneration. **2018**, 1058, 305-325		17
128	Osteochondral Tissue Engineering. **2018**,		
127	Enhancing bioactive properties of silk fibroin with diatom particles for bone tissue engineering applications. **2018**, 12, 89-97		17
126	An improvement of silk-based scaffold properties using collagen type I for skin tissue engineering applications. **2018**, 75, 685-700		8
125	Novel fluoridated silk fibroin/ TiO nanocomposite scaffolds for bone tissue engineering. *Materials Science and Engineering C*, **2018**, 82, 265-276	8.3	27
124	Scaffold with Orientated Microtubule Structure Containing Polylysine-Heparin Sodium Nanoparticles for the Controlled Release of TGF-β1 in Cartilage Tissue Engineering.. *ACS Applied Bio Materials*, **2018**, 1, 2030-2040	4.1	6
123	Silk. **2018**, 1-19		3
122	3D cellulose nanofiber scaffold with homogeneous cell population and long-term proliferation. **2018**, 25, 7299-7314		12
121	Spontaneous formation of microporous poly(lactic acid) coatings. **2018**, 125, 249-256		12
120	Silk Fibroin in Wound Healing Process. **2018**, 1077, 115-126		24
119	Autologous liquid platelet rich fibrin: A novel drug delivery system. *Acta Biomaterialia*, **2018**, 75, 35-51	10.8	47
118	Silk-based matrices for bone tissue engineering applications. **2018**, 439-472		
117	Biomechanical, structural and biological characterisation of a new silk fibroin scaffold for meniscal repair. **2018**, 86, 314-324		15
116	Silk-Based Hydrogels for Biomedical Applications. **2018**, 1-26		1
115	Controlled Release of BMP-2 from a Heparin-Conjugated Strontium-Substituted Nanohydroxyapatite/Silk Fibroin Scaffold for Bone Regeneration. **2018**, 4, 3291-3303		14

114	Advanced Silk Fibroin Biomaterials for Cartilage Regeneration. **2018**, 4, 2704-2715		75
113	Thai silk fibroin gelation process enhancing by monohydric and polyhydric alcohols. *International Journal of Biological Macromolecules*, **2018**, 118, 1726-1735	7.9	21
112	Silk Fibroin Porous Scaffolds Loaded with a Slow-Releasing Hydrogen Sulfide Agent (GYY4137) for Applications of Tissue Engineering. **2018**, 4, 2956-2966		20
111	Structure Analysis of Bombyx mori Silk Fibroin Using NMR. **2018**, 349-361		1
110	Emerging Concepts in Treating Cartilage, Osteochondral Defects, and Osteoarthritis of the Knee and Ankle. **2018**, 1059, 25-62		11
109	Surgical repair of abdominal wall defect with biomimetic nano/microfibrous hybrid scaffold. *Materials Science and Engineering C*, **2018**, 93, 828-837	8.3	7
108	Bilayered Scaffold Prepared from a Kartogenin-Loaded Hydrogel and BMP-2-Derived Peptide-Loaded Porous Nanofibrous Scaffold for Osteochondral Defect Repair. **2019**, 5, 4564-4573		11
107	Biocompatiable silk fibroin/carboxymethyl chitosan/strontium substituted hydroxyapatite/cellulose nanocrystal composite scaffolds for bone tissue engineering. *International Journal of Biological Macromolecules*, **2019**, 136, 1247-1257	7.9	43
106	Desarrollo y caracterizaci� de pel�ulas de fibroina de seda para reparaci� condral. **2019**, 21, 71-81		
105	Suturable regenerated silk fibroin scaffold reinforced with 3D-printed polycaprolactone mesh: biomechanical performance and subcutaneous implantation. **2019**, 30, 63		16
104	Tissue engineering scaffolds: future perspectives. **2019**, 165-185		5
103	Meniscal allograft transplants and new scaffolding techniques. **2019**, 4, 279-295		25
102	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. **2019**, 12,		192
101	Fabrication of hierarchically porous silk fibroin-bioactive glass composite scaffold via indirect 3D printing: Effect of particle size on physico-mechanical properties and in vitro cellular behavior. *Materials Science and Engineering C*, **2019**, 103, 109688	8.3	22
100	Biomaterials to Mimic and Heal Connective Tissues. *Advanced Materials*, **2019**, 31, e1806695	24	79
99	Biomimetic mineralization on natural and synthetic polymers to prepare hybrid scaffolds for bone tissue engineering. **2019**, 178, 222-229		47
98	Silk fibroin scaffolds for common cartilage injuries: Possibilities for future clinical applications. **2019** , 115, 251-267		48
97	Silk and silk fibroin-based biopolymeric composites and their biomedical applications. **2019**, 339-374		6

96	Regenerated Silk Fibroin/Poly(-isopropylacrylamide) Thermosensitive Composite Hydrogel with Improved Mechanical Strength. **2019**, 11,		7
95	Advanced Silk Fibroin Biomaterials and Application to Small-Diameter Silk Vascular Grafts. **2019**, 5, 5561-5577		25
94	Are the Biological and Biomechanical Properties of Meniscal Scaffolds Reflected in Clinical Practice? A Systematic Review of the Literature. **2019**, 20,		5
93	3D bioprinting of alginate scaffolds with controlled micropores by leaching of recrystallized salts. **2019**, 76, 6077-6088		8
92	Preparation and Statistical Characterization of Tunable Porous Sponge Scaffolds using UV Cross-linking of Methacrylate-Modified Silk Fibroin. **2019**, 5, 6374-6388		26
91	An Environmentally Sensitive Silk Fibroin/Chitosan Hydrogel and Its Drug Release Behaviors. **2019**, 11,		8
90	Silk fibroin/collagen/hyaluronic acid scaffold incorporating pilose antler polypeptides microspheres for cartilage tissue engineering. *Materials Science and Engineering C*, **2019**, 94, 35-44	8.3	38
89	A collagen-coated sponge silk scaffold for functional meniscus regeneration. **2019**, 13, 156-173		20
88	Ultrasound sonication prior to electrospinning tailors silk fibroin/PEO membranes for periodontal regeneration. *Materials Science and Engineering C*, **2019**, 98, 969-981	8.3	18
87	Silk-Based Hydrogels for Biomedical Applications. **2019**, 1791-1817		3
86	Enzymatically Cross-Linked Silk Fibroin-Based Hierarchical Scaffolds for Osteochondral Regeneration. **2019**, 11, 3781-3799		57
85	Random lasing detection of structural transformation and compositions in silk fibroin scaffolds. **2019**, 12, 289-297		6
84	Polymeric 3D scaffolds for tissue regeneration: Evaluation of biopolymer nanocomposite reinforced with cellulose nanofibrils. *Materials Science and Engineering C*, **2019**, 94, 867-878	8.3	25
83	Engineering patient-specific bioprinted constructs for treatment of degenerated intervertebral disc. **2019**, 19, 506-512		22
82	Early degeneration of the meniscus revealed by microbiomechanical alteration in a rabbit anterior cruciate ligament transection model. **2020**, 21, 146-152		1
81	Water-annealing treatment for edible silk fibroin coatings from fibrous waste. **2020**, 137, 48505		13
80	Synthesis and assessment of sodium alginate-modified silk fibroin microspheres as potential hepatic arterial embolization agent. *International Journal of Biological Macromolecules*, **2020**, 155, 1450-1459	7.9	7
79	Mechanically-reinforced 3D scaffold constructed by silk nonwoven fabric and silk fibroin sponge. **2020**, 196, 111361		5

78	Pore size evaluation of direct-dissolution salt-leached 3D silk fibroin scaffold using microcomputed tomography. **2020**,		1
77	Effects of Chemical Post-treatments on Structural and Physicochemical Properties of Silk Fibroin Films Obtained From Silk Fibrous Waste. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 523949	5.8	7
76	The 3D-Printed BilayerTs Bioactive-Biomaterials Scaffold for Full-Thickness Articular Cartilage Defects Treatment. **2020**, 13,		9
75	Mimicking Natural Microenvironments: Design of 3D-Aligned Hybrid Scaffold for Dentin Regeneration. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 836	5.8	4
74	Silk fibroin as a natural polymeric based bio-material for tissue engineering and drug delivery systems-A review. *International Journal of Biological Macromolecules*, **2020**, 163, 2145-2161	7.9	19
73	Biomimetic and osteogenic 3D silk fibroin composite scaffolds with nano MgO and mineralized hydroxyapatite for bone regeneration. **2020**, 11, 2041731420967791		28
72	Light, Strong, and Ductile Architectures Achieved by Silk Fiber "Welding" Processing. **2020**, 5, 11955-11961		1
71	Highly Conducting Bombyx mori Silk Fibroin-Based Electrolytes Incorporating Glycerol, Dimethyl Sulfoxide and [Bmim]PF6. **2020**, 167, 070551		4
70	Cell-free 3D wet-electrospun PCL/silk fibroin/Sr scaffold promotes successful total meniscus regeneration in a rabbit model. *Acta Biomaterialia*, **2020**, 113, 196-209	10.8	20
69	Porous Architecture Evaluation of Silk Fibroin Scaffold from Direct Dissolution Salt Leaching Method. **2020**, 391, 1900187		4
68	Blending Gelatin and Cellulose Nanofibrils: Biocomposites with Tunable Degradability and Mechanical Behavior. **2020**, 10,		5
67	Fabrication of Silk Resin with High Bending Properties by Hot-Pressing and Subsequent Hot-Rolling. **2020**, 13,		4
66	Strategies for Tuning the Biodegradation of Silk Fibroin-Based Materials for Tissue Engineering Applications. **2020**, 6, 1290-1310		25
65	Osteochondral and bone tissue engineering scaffold prepared from Gallus var domesticus derived demineralized bone powder combined with gellan gum for medical application. *International Journal of Biological Macromolecules*, **2020**, 149, 381-394	7.9	7
64	Recent trends in the application of widely used natural and synthetic polymer nanocomposites in bone tissue regeneration. *Materials Science and Engineering C*, **2020**, 110, 110698	8.3	160
63	Three-dimensional silk fibroin scaffolds incorporated with graphene for bone regeneration. **2021**, 109, 515-523		8
62	Co-electrospun nano-/microfibrous composite scaffolds with structural and chemical gradients for bone tissue engineering. *Materials Science and Engineering C*, **2021**, 119, 111622	8.3	6
61	Soft hydrogel promotes dorsal root ganglion by upregulating gene expression of Ntn4 and Unc5B. **2021**, 199, 111503		2

60	Pullulan-based bionanocomposites in tissue engineering and regenerative medicine. **2021**, 533-547		0
59	Development of electrically conductive porous silk fibroin/carbon nanofiber scaffolds. *Biomedical Materials (Bristol)*, **2021**, 16, 025027	3.5	
58	Silk Fibroin as a Functional Biomaterial for Tissue Engineering. **2021**, 22,		48
57	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. *Advanced Functional Materials*, **2021**, 31, 2010609	15.6	82
56	Extracellular matrix imitation utilizing nanofibers-embedded biomimetic scaffolds for facilitating cartilage regeneration. *Chemical Engineering Journal*, **2021**, 410, 128379	14.7	10
55	Application of New Bone Cement Biomaterials in Osteoporotic Compression Fractures. *Science of Advanced Materials*, **2021**, 13, 662-671	2.3	1
54	Preparation of Absorbable Suture Biomaterial Formed by Glycolide/Lactide and Its Application in the Congenital Thumb Deformity Surgery. *Science of Advanced Materials*, **2021**, 13, 683-693	2.3	
53	Application potential of three-dimensional silk fibroin scaffold using mesenchymal stem cells for cardiac regeneration. *Journal of Biomaterials Applications*, **2021**, 36, 740-753	2.9	
52	Analysis on the Performance of Nano-Composite Resin Dental Restorative Materials. *Science of Advanced Materials*, **2021**, 13, 927-937	2.3	
51	Effects of Kartogenin/PLGA Nanoparticles on Silk Scaffold Properties and Stem Cell Fate. *Bioinspired, Biomimetic and Nanobiomaterials*, 1-8	1.3	
50	Porous aligned ZnSr-doped βTCP/silk fibroin scaffolds using ice-templating method for bone tissue engineering applications. *Journal of Biomaterials Science, Polymer Edition*, **2021**, 32, 1966-1982	3.5	4
49	Macroporous scaffold surface modified with biological macromolecules and piroxicam-loaded gelatin nanofibers toward meniscus cartilage repair. *International Journal of Biological Macromolecules*, **2021**, 183, 1327-1345	7.9	7
48	Sericin from mulberry and non-mulberry silk using chemical-free degumming. *Journal of the Textile Institute*, 1-10	1.5	0
47	Bioactive Silk Fibroin-Based Hybrid Biomaterials for Musculoskeletal Engineering: Recent Progress and Perspectives.. *ACS Applied Bio Materials*, **2021**, 4, 6630-6646	4.1	3
46	Algae-derived materials for tissue engineering and regenerative medicine applications: current trends and future perspectives. *Emergent Materials*, 1	3.5	3
45	Characterization of Macroporous Polycaprolactone/Silk Fibroin/Gelatin/Ascorbic Acid Composite Scaffolds and Results in a Rabbit Model for Meniscus Cartilage Repair. *Cartilage*, **2021**, 19476035211035418	3	3
44	Cell guidance on peptide micropatterned silk fibroin scaffolds. *Journal of Colloid and Interface Science*, **2021**, 603, 380-390	9.3	3
43	Synthetic Meniscal Substitutes. **2022**, 231-240		

#	Article	IF	Citations
42	Human Meniscus: From Biology to Tissue Engineering Strategies. **2015**, 1089-1102		2
41	Human Meniscus: From Biology to Tissue Engineering Strategies. **2013**, 1-16		4
40	Future Trends in the Treatment of Meniscus Lesions: From Repair to Regeneration. **2013**, 103-112		10
39	Biomimetic Assemblies by Matrix-Assisted Pulsed Laser Evaporation. **2013**, 111-141		5
38	Building the Basis for Patient-Specific Meniscal Scaffolds. **2017**, 411-418		6
37	Materials and structures used in meniscus repair and regeneration: a review. *BioMedicine (Taiwan*, **2019**, 9, 2	1.1	12
36	3D porous collagen scaffolds reinforced by glycation with ribose for tissue engineering application. *Biomedical Materials (Bristol)*, **2017**, 12, 055002	3.5	16
35	Constructed microbubble porous scaffolds of polyvinyl alcohol for subchondral bone formation for osteoarthritis surgery. *Biomedical Materials (Bristol)*, **2020**, 15, 055029	3.5	4
34	Biofunctional Ionic-Doped Calcium Phosphates: Silk Fibroin Composites for Bone Tissue Engineering Scaffolding. *Cells Tissues Organs*, **2017**, 204, 150-163	2.1	28
33	Nanostructured 3D constructs based on chitosan and chondroitin sulphate multilayers for cartilage tissue engineering. *PLoS ONE*, **2013**, 8, e55451	3.7	95
32	In Vivo Performance of Hierarchical HRP-Crosslinked Silk Fibroin/βTCP Scaffolds for Osteochondral Tissue Regeneration.		4
31	The Trend of Biomaterials in Facial Plastic and Reconstructive Surgery. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2014**, 57, 651	0.2	1
30	Behavior of Retinal Pigment Epithelial Cells Cultured on Silk Films. *Porrime*, **2014**, 38, 364-370	1	
29	Structure Analysis of Bombyx mori Silk Fibroin Using NMR. **2017**, 1-13		0
28	Natural Polymers: Tissue Engineering. **2017**, 1206-1234		
27	Effect of Precipitant on Conformational State of Silk Fibroin in Ionic-Liquid Solutions. *Fibre Chemistry*, **2020**, 52, 253-258	0.6	1
26	Natural polymeric biomaterials for tissue engineering. **2022**, 75-110		
25	Cartilage tissue engineering. **2022**, 555-586		

24	Meniscus tissue engineering and repair. **2022**, 107-132		0
23	Toughening robocast chitosan/biphasic calcium phosphate composite scaffolds with silk fibroin: Tuning printable inks and scaffold structure for bone regeneration.. *Materials Science and Engineering C*, **2022**, 112690	8.3	1
22	Medical applications of polymer/functionalized nanoparticle composite systems, renewable polymers, and polymer‒metal oxide composites. **2022**, 129-164		
21	Bioinspired Silk Fibroin-Based Composite Grafts as Bone Tunnel Fillers for Anterior Cruciate Ligament Reconstruction.. *Pharmaceutics*, **2022**, 14,	6.4	3
20	The Contribution of Silk Fibroin in Biomedical Engineering.. *Insects*, **2022**, 13,	2.8	5
19	Synergetic integrations of bone marrow stem cells and transforming growth factor-β loaded chitosan nanoparticles blended silk fibroin injectable hydrogel to enhance repair and regeneration potential in articular cartilage tissue.. *International Wound Journal*, **2022**,	2.6	0
18	Developing a novel calcium magnesium silicate/graphene oxide incorporated silk fibroin porous scaffold with enhanced osteogenesis, angiogenesis and inhibited osteoclastogenesis.. *Biomedical Materials (Bristol)*, **2022**,	3.5	
17	Pushing the Natural Frontier: Progress on the Integration of Biomaterial Cues towards Combinatorial Biofabrication and Tissue Engineering.. *Advanced Materials*, **2022**, e2105645	24	3
16	Table_1.docx. **2020**,		
15	Adipose mesenchymal stem cell-based tissue engineering mesh with sustained bFGF release to enhance tissue repair.. *Biomaterials Science*, **2022**,	7.4	2
14	Silk Fibroin-Based Biomaterials for Hemostatic Applications. *Biomolecules*, **2022**, 12, 660	5.9	2
13	Silk Fibroin-Based Biomaterials for Tissue Engineering Applications.. *Molecules*, **2022**, 27,	4.8	3
12	Stem Cell-Laden Hydrogel-Based 3D Bioprinting for Bone and Cartilage Tissue Engineering. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10,	5.8	0
11	Chondrogenic Differentiation of Human Mesenchymal Stem Cells and Macrophage Polarization on 3D-Printed Poly(ε-caprolactone)/Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Blended Scaffolds with Different Secondary Porous Structures. *ACS Applied Bio Materials*,	4.1	
10	Development of meniscus cartilage using polycaprolactone and decellularized meniscus surface modified by gelatin, hyaluronic acid biomacromolecules: A rabbit model. *International Journal of Biological Macromolecules*, **2022**, 213, 498-515	7.9	0
9	Silk Hydrogel for Tissue Engineering: A Review. *Journal of Contemporary Dental Practice*, **2022**, 23, 467-477	0.7	
8	The combinatory effect of scaffold topography and culture condition: an approach to nucleus pulposus tissue engineering. **2022**, 8,		1
7	A Porous Gelatin Methacrylate-Based Material for 3D Cell-Laden Constructs. 2200357		0

6	Composite silk fibroin hydrogel scaffolds for cartilage tissue regeneration. **2023**, 79, 104018	0
5	Silk Fibroin as Sustainable Advanced Material: Material Properties and Characteristics, Processing, and Applications. 2210764	2
4	Controllable Damping Magnetorheological Elastomer Meniscus.	0
3	Recent development in multizonal scaffolds for osteochondral regeneration. **2023**, 25, 122-159	0
2	Halloysite nanoclay reinforced hydroxyapatite porous scaffold for hard tissue regeneration. **2023**, 140, 105626	0
1	Methods and Challenges in the Fabrication of Biopolymer-Based Scaffolds for Tissue Engineering Application. **2023**, 335-370	0