

Subhas C Kundu

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.

249
papers

18,376
citations

62
h-index

131
g-index

261
ext. papers

21,126
ext. citations

7
avg. IF

7.26
L-index

#	Paper	IF	Citations
249	Microfluidic platforms for extracellular vesicle isolation, analysis and therapy in cancer.. <i>Lab on A Chip</i> , 2022 ,	7.2	2
248	Polysaccharides in Cancer Therapy 2022 , 723-743		
247	Biomimetic Antibacterial Pro-Osteogenic Cu-Sericin MOFs for Osteomyelitis Treatment. <i>Biomimetics</i> , 2022 , 7, 64	3.7	0
246	Thermosensitive chitosan/poly(N-isopropyl acrylamide) nanoparticles embedded in aniline pentamer/silk fibroin/polyacrylamide as an electroactive injectable hydrogel for healing critical-sized calvarial bone defect in aging rat model. <i>International Journal of Biological Macromolecules</i> , 2022 , 213, 352-368	7.9	1
245	Emerging Microfluidic and Biosensor Technologies for Improved Cancer Theranostics. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 461-495	3.6	
244	Coupling Micro-Physiological Systems and Biosensors for Improving Cancer Biomarkers Detection. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 307-318	3.6	0
243	The Tumor Microenvironment: An Introduction to the Development of Microfluidic Devices. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 115-138	3.6	
242	Current Trends in Microfluidics and Biosensors for Cancer Research Applications. <i>Advances in Experimental Medicine and Biology</i> , 2022 , 81-112	3.6	1
241	Precision biomaterials in cancer theranostics and modelling. <i>Biomaterials</i> , 2021 , 280, 121299	15.6	5
240	Micropatterned gellan gum-based hydrogels tailored with laminin-derived peptides for skeletal muscle tissue engineering. <i>Biomaterials</i> , 2021 , 279, 121217	15.6	3
239	Breast tumor-on-chip models: From disease modeling to personalized drug screening. <i>Journal of Controlled Release</i> , 2021 , 331, 103-120	11.7	7
238	Green Solvents Combined with Bioactive Compounds as Delivery Systems: Present Status and Future Trends.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4000-4013	4.1	8
237	Micropatterned Silk-Fibroin/Eumelanin Composite Films for Bioelectronic Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2466-2474	5.5	5
236	Sericin-chitosan-glycosaminoglycans hydrogels incorporated with growth factors for in vitro and in vivo skin repair. <i>Carbohydrate Polymers</i> , 2021 , 258, 117717	10.3	4
235	adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. <i>Bioengineering</i> , 2021 , 8,	5.3	2
234	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. <i>Advanced Biology</i> , 2021 , 5, e2101019		4
233	Modulation of inflammation by anti-TNF μ Ab-dendrimer nanoparticles loaded in tyramine-modified gellan gum hydrogels in a cartilage-on-a-chip model. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4211-4218	7.3	4

232	Long-term preservation effects on biological properties of acellular placental sponge patches. <i>Materials Science and Engineering C</i> , 2021 , 121, 111814	8.3	1
231	Horseradish Peroxidase-Crosslinked Calcium-Containing Silk Fibroin Hydrogels as Artificial Matrices for Bone Cancer Research. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000425	5.5	2
230	Highly Absorbent Silk Fibroin Protein Xerogel. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3594-3607	9.9	2
229	Nonmulberry silk proteins: multipurpose ingredient in bio-functional assembly. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	5
228	Silk Fibroin Microneedle Patches for the Treatment of Insomnia.. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
227	Green Pathway for Processing Non-mulberry <i>Antheraea pernyi</i> Silk Fibroin/Chitin-Based Sponges: Biophysical and Biochemical Characterization. <i>Frontiers in Materials</i> , 2020 , 7,	4	4
226	Human Microcirculation-on-Chip Models in Cancer Research: Key Integration of Lymphatic and Blood Vasculatures. <i>Advanced Biology</i> , 2020 , 4, e2000045	3.5	15
225	Tumor-Stroma Interactions Alter the Sensitivity of Drug in Breast Cancer. <i>Frontiers in Materials</i> , 2020 , 7,	4	3
224	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core-Shell Electrospun Dressing for Burn Wound Management. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900328	5.5	62
223	Functionalized silk fibroin nanofibers as drug carriers: Advantages and challenges. <i>Journal of Controlled Release</i> , 2020 , 321, 324-347	11.7	58
222	Combined Silk Fibroin Microneedles for Insulin Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3422-3429	5.5	29
221	The Biophysics of Cell Migration: Biasing Cell Motion with Feynman Ratchets. <i>The Biophysicist</i> , 2020 , 1,	1	2
220	Engineering Patient-on-a-Chip Models for Personalized Cancer Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 43-64	3.6	8
219	Dual drug delivery system based on pH-sensitive silk fibroin/alginate nanoparticles entrapped in PNIPAM hydrogel for treating severe infected burn wound. <i>Biofabrication</i> , 2020 , 13, 015005	10.5	19
218	Silk fibroin for skin injury repair: Where do things stand?. <i>Advanced Drug Delivery Reviews</i> , 2020 , 153, 28-53	18.5	62
217	Could 3D models of cancer enhance drug screening?. <i>Biomaterials</i> , 2020 , 232, 119744	15.6	72
216	Silk fibroin promotes mineralization of gellan gum hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 1328-1334	7.9	15
215	Protocols for decellularization of human amniotic membrane. <i>Methods in Cell Biology</i> , 2020 , 157, 37-47	1.8	3

214	Trends in biomaterials for three-dimensional cancer modeling 2020 , 3-41		2
213	Metastasis in three-dimensional biomaterials 2020 , 191-216		1
212	3D cancer spheroids and microtissues 2020 , 217-234		
211	3D scaffold materials for skin cancer modeling 2020 , 305-328		1
210	Microfluidic systems in cancer research 2020 , 331-377		4
209	Biodetection and sensing for cancer diagnostics 2020 , 643-660		2
208	Convection patterns gradients of non-living and living micro-entities in hydrogels. <i>Applied Materials Today</i> , 2020 , 21, 100859	6.6	1
207	Electric Phenomenon: A Disregarded Tool in Tissue Engineering and Regenerative Medicine. <i>Trends in Biotechnology</i> , 2020 , 38, 24-49	15.1	47
206	Modulation of Hypertrophic Scar Formation Using Amniotic Membrane/Electrospun Silk Fibroin Bilayer Membrane in a Rabbit Ear Model. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1487-1496	5.5	23
205	A peptide-modified solid lipid nanoparticle formulation of paclitaxel modulates immunity and outperforms dacarbazine in a murine melanoma model. <i>Biomaterials Science</i> , 2019 , 7, 1161-1178	7.4	15
204	Nonmulberry silk protein sericin blend hydrogels for skin tissue regeneration - in vitro and in vivo. <i>International Journal of Biological Macromolecules</i> , 2019 , 137, 545-553	7.9	16
203	Highly elastomeric photocurable silk hydrogels. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 838-845	7.9	15
202	Prevention of epithelial to mesenchymal transition in colorectal carcinoma by regulation of the E-cadherin-Eatenin-vinculin axis. <i>Cancer Letters</i> , 2019 , 452, 254-263	9.9	19
201	Silk fibroin scaffolds for common cartilage injuries: Possibilities for future clinical applications. <i>European Polymer Journal</i> , 2019 , 115, 251-267	5.2	48
200	Mechanical Property of Hydrogels and the Presence of Adipose Stem Cells in Tumor Stroma Affect Spheroid Formation in the 3D Osteosarcoma Model. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14548-14559	9.5	34
199	Insulin-Loaded Silk Fibroin Microneedles as Sustained Release System. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1887-1894	5.5	31
198	Peptide-Modified Dendrimer Nanoparticles for Targeted Therapy of Colorectal Cancer. <i>Advanced Therapeutics</i> , 2019 , 2, 1900132	4.9	15
197	Performance of Water-immiscible Silk Fibroin Based Hydrogel as Underwater Biomedical Adhesive. <i>Fibers and Polymers</i> , 2019 , 20, 2032-2041	2	6

196	3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 20-39	11.8	54
195	Fabricated porous silk fibroin particles for pH-responsive drug delivery and targeting of tumor cells. <i>Journal of Materials Science</i> , 2019 , 54, 3319-3330	4.3	24
194	Chinese Oak Tasar Silkworm <i>Antheraea pernyi</i> Silk Proteins: Current Strategies and Future Perspectives for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800252	5.5	19
193	Fabrication of Flexible, Fully Organic, Degradable Energy Storage Devices Using Silk Proteins. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9620-9628	9.5	43
192	Nerve Repair with Nerve Conduits: Problems, Solutions, and Future Directions. <i>Journal of Hand and Microsurgery</i> , 2018 , 10, 61-65	0.5	24
191	3D Protein-Based Bilayer Artificial Skin for the Guided Scarless Healing of Third-Degree Burn Wounds in Vivo. <i>Biomacromolecules</i> , 2018 , 19, 2409-2422	6.9	50
190	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. <i>Pharmacology & Therapeutics</i> , 2018 , 184, 201-211	13.9	90
189	Silk fibroin/hydroxyapatite composites for bone tissue engineering. <i>Biotechnology Advances</i> , 2018 , 36, 68-91	17.8	224
188	Prospects of nonmulberry silk protein sericin-based nanofibrous matrices for wound healing - In vitro and in vivo investigations. <i>Acta Biomaterialia</i> , 2018 , 78, 137-150	10.8	43
187	Silk Fibroin/Polyvinyl Pyrrolidone Interpenetrating Polymer Network Hydrogels. <i>Polymers</i> , 2018 , 10,	4.5	15
186	Silk fibroin/amniotic membrane 3D bi-layered artificial skin. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035003	9.3	66
185	Protein Nanoparticles: Promising Platforms for Drug Delivery Applications. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3939-3961	5.5	94
184	Targeting of EGFR, VEGFR2, and Akt by Engineered Dual Drug Encapsulated Mesoporous Silica-Gold Nanoclusters Sensitizes Tamoxifen-Resistant Breast Cancer. <i>Molecular Pharmaceutics</i> , 2018 , 15, 2698-2713	5.6	20
183	Silk fibroin hydrogel as physical barrier for prevention of post hernia adhesion. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2017 , 21, 125-137	3.2	6
182	Sustainable Release of Vancomycin from Silk Fibroin Nanoparticles for Treating Severe Bone Infection in Rat Tibia Osteomyelitis Model. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5128-5138	9.5	88
181	Chitosan-Intercalated Montmorillonite/Poly(vinyl alcohol) Nanofibers as a Platform to Guide Neuronlike Differentiation of Human Dental Pulp Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11392-11404	9.5	69
180	Gold nanoparticle-embedded silk protein-ZnO nanorod hybrids for flexible bio-photonic devices. <i>Nanotechnology</i> , 2017 , 28, 145202	3.4	26
179	Non-immunogenic, porous and antibacterial chitosan and <i>Antheraea mylitta</i> silk sericin hydrogels as potential dermal substitute. <i>Carbohydrate Polymers</i> , 2017 , 167, 196-209	10.3	26

178	A silk fibroin hydrogel with reversible sol-gel transition. <i>RSC Advances</i> , 2017 , 7, 24085-24096	3.7	32
177	Dual growth factor loaded nonmulberry silk fibroin/carbon nanofiber composite 3D scaffolds for in vitro and in vivo bone regeneration. <i>Biomaterials</i> , 2017 , 136, 67-85	15.6	92
176	Oriental behaviors of silk fibroin hydrogels. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45050	2.9	6
175	Silk fibroin-Thelebolan matrix: A promising chemopreventive scaffold for soft tissue cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 155, 379-389	6	4
174	In vivo bone regeneration ability of different layers of natural silk cocoon processed using an eco-friendly method. <i>Macromolecular Research</i> , 2017 , 25, 806-816	1.9	10
173	Hydroxyapatite reinforced inherent RGD containing silk fibroin composite scaffolds: Promising platform for bone tissue engineering. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1745-1759	6	41
172	Biomimetic synthesis of sericin and silica hybrid colloidosomes for stimuli-responsive anti-cancer drug delivery systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 151, 102-111	6	13
171	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. <i>Biomaterials</i> , 2017 , 149, 98-115	15.6	112
170	Silk scaffolds in bone tissue engineering: An overview. <i>Acta Biomaterialia</i> , 2017 , 63, 1-17	10.8	158
169	Optical Spectroscopic and Morphological Characterizations of Curcuminized Silk Biomaterials: A Perspective from Drug Stabilization. <i>ACS Omega</i> , 2017 , 2, 6755-6767	3.9	10
168	The optical properties of regenerated silk fibroin films obtained from different sources. <i>Applied Physics Letters</i> , 2017 , 111, 103702	3.4	35
167	In Vivo Characterizations of the Immune Properties of Sericin: An Ancient Material with Emerging Value in Biomedical Applications. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700229	5.5	38
166	Targeted Delivery System Based on Gemcitabine-Loaded Silk Fibroin Nanoparticles for Lung Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31600-31611	9.5	61
165	Self-Assembling Silk-Based Nanofibers with Hierarchical Structures. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2617-2627	5.5	17
164	Biosensing using photolithographically micropatterned electrodes of PEDOT:PSS on ITO substrates. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 140-147	8.5	26
163	Carbon Nanofiber Reinforced Nonmulberry Silk Protein Fibroin Nanobiocomposite for Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19356-19370	9.5	39
162	Silk fibroin scaffolds with muscle-like elasticity support in vitro differentiation of human skeletal muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3178-3192	4.4	21
161	Prospects of peripheral nerve tissue engineering using nerve guide conduits based on silk fibroin protein and other biopolymers. <i>International Materials Reviews</i> , 2017 , 62, 367-391	16.1	43

160	Potential of inherent RGD containing silk fibroin-poly (ε-caprolactone) nanofibrous matrix for bone tissue engineering. <i>Cell and Tissue Research</i> , 2016 , 363, 525-40	4.2	31
159	Fabrication of precise shape-defined particles of silk proteins using photolithography. <i>European Polymer Journal</i> , 2016 , 85, 421-430	5.2	7
158	Multifunctional nano-hydroxyapatite and alginate/gelatin based sticky gel composites for potential bone regeneration. <i>Materials Chemistry and Physics</i> , 2016 , 181, 227-233	4.4	15
157	Silk fibroin nanoparticles support in vitro sustained antibiotic release and osteogenesis on titanium surface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1193-204	6	57
156	Silk sericin microcapsules with hydroxyapatite shells: protection and modification of organic microcapsules by biomimetic mineralization. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 340-347	7.3	28
155	Potential of non-mulberry silk protein fibroin blended and grafted poly(ε-caprolactone) nanofibrous matrices for in vivo bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 143, 431-439	6	25
154	Non-mulberry silk fibroin grafted poly(ε-caprolactone)/nano hydroxyapatite nanofibrous scaffold for dual growth factor delivery to promote bone regeneration. <i>Journal of Colloid and Interface Science</i> , 2016 , 472, 16-33	9.3	41
153	Conducting polymer-silk biocomposites for flexible and biodegradable electrochemical sensors. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 294-302	11.8	128
152	Metal nanoparticles triggered persistent negative photoconductivity in silk protein hydrogels. <i>Nanoscale</i> , 2016 , 8, 7695-703	7.7	32
151	Non-mulberry silk fibroin grafted poly(ε-caprolactone) nanofibrous scaffolds mineralized by electrodeposition: an optimal delivery system for growth factors to enhance bone regeneration. <i>RSC Advances</i> , 2016 , 6, 26835-26855	3.7	18
150	Degradation pattern of porous CaCO ₃ and hydroxyapatite microspheres in vitro and in vivo for potential application in bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 143, 56-63	6	30
149	Fabrication and characterization of Eri silk fibers-based sponges for biomedical application. <i>Acta Biomaterialia</i> , 2016 , 32, 178-189	10.8	36
148	Silk protein-based hydrogels: Promising advanced materials for biomedical applications. <i>Acta Biomaterialia</i> , 2016 , 31, 17-32	10.8	273
147	Potential of electrospun core-shell structured gelatin-chitosan nanofibers for biomedical applications. <i>Carbohydrate Polymers</i> , 2016 , 136, 1098-107	10.3	71
146	Non-Mulberry and Mulberry Silk Protein Sericins as Potential Media Supplement for Animal Cell Culture. <i>BioMed Research International</i> , 2016 , 2016, 7461041	3	22
145	Natural Non-Mulberry Silk Nanoparticles for Potential-Controlled Drug Release. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	12
144	Controlled degradation pattern of hydroxyapatite/calcium carbonate composite microspheres. <i>Microscopy Research and Technique</i> , 2016 , 79, 518-24	2.8	13
143	Photolithographic Micropatterning of Conducting Polymers on Flexible Silk Matrices. <i>Advanced Materials</i> , 2016 , 28, 1406-12	24	71

142	Non-mulberry Silk Fibroin Biomaterial for Corneal Regeneration. <i>Scientific Reports</i> , 2016 , 6, 21840	4.9	39
141	Silk Protein Sericin: Promising Biopolymer for Biological and Biomedical Applications 2016 , 142-158		3
140	Micropatterned Flexible and Conformable Biofunctional Devices Using Silk Proteins. <i>MRS Advances</i> , 2016 , 1, 3539-3544	0.7	2
139	Exploration of the tight structural-mechanical relationship in mulberry and non-mulberry silkworm silks. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4337-4347	7.3	39
138	Investigating the potential of combined growth factors delivery, from non-mulberry silk fibroin grafted poly(e-caprolactone)/hydroxyapatite nanofibrous scaffold, in bone tissue engineering. <i>Applied Materials Today</i> , 2016 , 5, 52-67	6.6	34
137	Biomimetic Designing of Functional Silk Nanotopography Using Self-assembly. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28458-28467	9.5	12
136	Potential mode of protection of silkworm pupae from environmental stress by harboring the bacterial biofilm on the surfaces of silk cocoons. <i>Current Microbiology</i> , 2015 , 70, 228-34	2.4	4
135	Ion-induced fabrication of silk fibroin nanoparticles from Chinese oak tasar <i>Antheraea pernyi</i> . <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 316-25	7.9	30
134	Potential of biocompatible regenerated silk fibroin/sodium N-lauroyl sarcosinate hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 780-95	3.5	13
133	Bio-inspired mineralization of hydroxyapatite in 3D silk fibroin hydrogel for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 339-45	6	49
132	Biopatterning of Silk Proteins for Soft Micro-optics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8809-16	9.5	37
131	Silk fibroin aerogels: potential scaffolds for tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 035002	3.5	47
130	Tri-layered silk fibroin and poly-e-caprolactone small diameter vascular grafts tested in vitro and in vivo. <i>Macromolecular Research</i> , 2015 , 23, 924-936	1.9	12
129	Fabrication of cationized gelatin nanofibers by electrospinning for tissue regeneration. <i>RSC Advances</i> , 2015 , 5, 89521-89530	3.7	24
128	Cytotoxicity and sustained release of modified divinylsulfone from silk based 3D construct. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 263	4.5	2
127	Non-mulberry silk fibroin grafted PCL nanofibrous scaffold: Promising ECM for bone tissue engineering. <i>European Polymer Journal</i> , 2015 , 71, 490-509	5.2	54
126	Silk 3D matrices incorporating human neural progenitor cells for neural tissue engineering applications. <i>Polymer Journal</i> , 2015 , 47, 819-825	2.7	13
125	Sequential release of drugs from hollow manganese ferrite nanocarriers for breast cancer therapy. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 90-101	7.3	17

124	Nanofibrous nonmulberry silk/PVA scaffold for osteoinduction and osseointegration. <i>Biopolymers</i> , 2015 , 103, 271-84	2.2	33
123	Fabrication of Silk Microstructures Using Photolithography. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1718, 163-170		
122	Formulation of Biologically-Inspired Silk-Based Drug Carriers for Pulmonary Delivery Targeted for Lung Cancer. <i>Scientific Reports</i> , 2015 , 5, 11878	4.9	34
121	Surface modification of hydroxyapatite microspheres for the sustained release of vitamin C. <i>Materials Technology</i> , 2015 , 30, 223-228	2.1	3
120	Nonmulberry Silk Fibroin Scaffold Shows Superior Osteoconductivity Than Mulberry Silk Fibroin in Calvarial Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1709-21	10.1	33
119	Silk fibroin composite membranes for application in corneal regeneration. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	4
118	Co-Culture of Human Endothelial Cells and Foreskin Fibroblasts on 3D Silk-Fibrin Scaffolds Supports Vascularization. <i>Macromolecular Bioscience</i> , 2015 , 15, 1433-46	5.5	18
117	Target specific delivery of anticancer drug in silk fibroin based 3D distribution model of bone-breast cancer cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2269-79	9.5	58
116	Non-mulberry silk fibroin influence osteogenesis and osteoblast-macrophage cross talk on titanium based surface. <i>Scientific Reports</i> , 2014 , 4, 4745	4.9	33
115	Thromboelastometric and platelet responses to silk biomaterials. <i>Scientific Reports</i> , 2014 , 4, 4945	4.9	10
114	Folate conjugated silk fibroin nanocarriers for targeted drug delivery. <i>Integrative Biology (United Kingdom)</i> , 2014 , 6, 203-14	3.7	61
113	Silk protein lithography as a route to fabricate sericin microarchitectures. <i>Advanced Materials</i> , 2014 , 26, 4431-7	24	66
112	Copper(II) complexes of piperazine based ligand: Synthesis, crystal structure, protein binding and evaluation of anti-cancerous therapeutic potential. <i>Inorganica Chimica Acta</i> , 2014 , 418, 30-41	2.7	13
111	Sericin-carboxymethyl cellulose porous matrices as cellular wound dressing material. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1928-40	5.4	47
110	Fabrication of sericin nanoparticles for controlled gene delivery. <i>RSC Advances</i> , 2014 , 4, 2137-2142	3.7	40
109	Isolation and processing of silk proteins for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 70-7	7.9	61
108	One-step synthesis of natural silk sericin-based microcapsules with bionic structures. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1668-72	4.8	6
107	Introduction to silk biomaterials 2014 , 3-40		12

106	Modified dextran cross-linked electrospun gelatin nanofibres for biomedical applications. <i>Carbohydrate Polymers</i> , 2014 , 114, 467-475	10.3	48
105	pH responsive poly amino-acid hydrogels formed via silk sericin templating. <i>International Journal of Biological Macromolecules</i> , 2014 , 70, 565-71	7.9	12
104	Flexible and transparent nanocrystal floating gate memory devices using silk protein. <i>Organic Electronics</i> , 2014 , 15, 1767-1772	3.5	13
103	Silk sericin-alginate-chitosan microcapsules: hepatocytes encapsulation for enhanced cellular functions. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 258-66	7.9	37
102	Exploring natural silk protein sericin for regenerative medicine: an injectable, photoluminescent, cell-adhesive 3D hydrogel. <i>Scientific Reports</i> , 2014 , 4, 7064	4.9	138
101	Silk scaffolds for three-dimensional (3D) tumor modeling 2014 , 472-502		1
100	Silk proteins for biomedical applications: Bioengineering perspectives. <i>Progress in Polymer Science</i> , 2014 , 39, 251-267	29.6	293
99	Silk gland fibroin from indian muga silkworm <i>Antheraea assama</i> as potential biomaterial. <i>Tissue Engineering and Regenerative Medicine</i> , 2013 , 10, 200-210	4.5	21
98	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. <i>Acta Biomaterialia</i> , 2013 , 9, 8972-82	10.8	64
97	Biocompatible composites of fibrous nanohydroxyapatite embedded in a polydimethylsiloxane. <i>Journal of Materials Science</i> , 2013 , 48, 5132-5139	4.3	7
96	Study of molecular and nanostructural dynamics of biological tissues under the influence of high-frequency electrosurgical welding. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013 , 77, 146-150	0.4	4
95	Transparent and flexible resistive switching memory devices with a very high ON/OFF ratio using gold nanoparticles embedded in a silk protein matrix. <i>Nanotechnology</i> , 2013 , 24, 345202	3.4	96
94	A silk fibroin based hepatocarcinoma model and the assessment of the drug response in hyaluronan-binding protein 1 overexpressed HepG2 cells. <i>Biomaterials</i> , 2013 , 34, 9462-74	15.6	39
93	The promotion of osseointegration of titanium surfaces by coating with silk protein sericin. <i>Biomaterials</i> , 2013 , 34, 2855-64	15.6	88
92	Engineered 3D Silk-Based Metastasis Models: Interactions Between Human Breast Adenocarcinoma, Mesenchymal Stem Cells and Osteoblast-Like Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5249-5260	15.6	38
91	An emerging functional natural silk biomaterial from the only domesticated non-mulberry silkworm <i>Samia ricini</i> . <i>Macromolecular Bioscience</i> , 2013 , 13, 1020-35	5.5	28
90	Drug loading and release on tumor cells using silk fibroin-albumin nanoparticles as carriers. <i>Nanotechnology</i> , 2013 , 24, 035103	3.4	103
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