

# Banani Kundu

## List of Publications by Citations

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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.

42  
papers

2,628  
citations

21  
h-index

43  
g-index

43  
ext. papers

3,016  
ext. citations

7.7  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
42	Silk fibroin biomaterials for tissue regenerations. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 457-70	18.5	818
41	Silk proteins for biomedical applications: Bioengineering perspectives. <i>Progress in Polymer Science</i> , <b>2014</b> , 39, 251-267	29.6	293
40	Silk protein fibroin from <i>Antheraea mylitta</i> for cardiac tissue engineering. <i>Biomaterials</i> , <b>2012</b> , 33, 2673-80	5.6	179
39	A Natural Silk Fibroin Protein-Based Transparent Bio-Memristor. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4493-4499	15.6	163
38	Silk scaffolds in bone tissue engineering: An overview. <i>Acta Biomaterialia</i> , <b>2017</b> , 63, 1-17	10.8	158
37	Invited review nonmulberry silk biopolymers. <i>Biopolymers</i> , <b>2012</b> , 97, 455-67	2.2	137
36	Silk sericin/polyacrylamide in situ forming hydrogels for dermal reconstruction. <i>Biomaterials</i> , <b>2012</b> , 33, 7456-67	15.6	136
35	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. <i>Pharmacology &amp; Therapeutics</i> , <b>2018</b> , 184, 201-211	13.9	90
34	Silk fibroin/collagen protein hybrid cell-encapsulating hydrogels with tunable gelation and improved physical and biological properties. <i>Acta Biomaterialia</i> , <b>2018</b> , 69, 218-233	10.8	61
33	Isolation and processing of silk proteins for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 70, 70-7	7.9	61
32	Osteochondral tissue engineering in vivo: a comparative study using layered silk fibroin scaffolds from mulberry and nonmulberry silkworms. <i>PLoS ONE</i> , <b>2013</b> , 8, e80004	3.7	51
31	Bio-inspired mineralization of hydroxyapatite in 3D silk fibroin hydrogel for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 134, 339-45	6	49
30	A silk fibroin based hepatocarcinoma model and the assessment of the drug response in hyaluronan-binding protein 1 overexpressed HepG2 cells. <i>Biomaterials</i> , <b>2013</b> , 34, 9462-74	15.6	39
29	Osteogenesis of human stem cells in silk biomaterial for regenerative therapy. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 1116-1127	29.6	38
28	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 &amp; Interfaces</i> , <b>2019</b> , 11, 14548-14559	9.5	34
27	Bio-inspired fabrication of fibroin cryogels from the muga silkworm <i>Antheraea assamensis</i> for liver tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2013</b> , 8, 055003	3.5	34
26	Nanofibrous nonmulberry silk/PVA scaffold for osteoinduction and osseointegration. <i>Biopolymers</i> , <b>2015</b> , 103, 271-84	2.2	33

25	Nonmulberry Silk Fibroin Scaffold Shows Superior Osteoconductivity Than Mulberry Silk Fibroin in Calvarial Bone Regeneration. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1709-21	10.1	33
24	Potential of inherent RGD containing silk fibroin-poly (E-caprolactone) nanofibrous matrix for bone tissue engineering. <i>Cell and Tissue Research</i> , <b>2016</b> , 363, 525-40	4.2	31
23	Ion-induced fabrication of silk fibroin nanoparticles from Chinese oak tasar <i>Antheraea pernyi</i> . <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 79, 316-25	7.9	30
22	Synthesis and characterization of Cu/Ag nanoparticle loaded mullite nanocomposite system: A potential candidate for antimicrobial and therapeutic applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 3264-76	4	26
21	Anti-bacterial zinc-doped calcium silicate cements: Bone filler. <i>Ceramics International</i> , <b>2018</b> , 44, 13031-13038	3.8	21
20	Chinese Oak Tasar Silkworm <i>Antheraea pernyi</i> Silk Proteins: Current Strategies and Future Perspectives for Biomedical Applications. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1800252	5.5	19
19	Silk fibroin promotes mineralization of gellan gum hydrogels. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 153, 1328-1334	7.9	15
18	Curcumin ameliorates the targeted delivery of methotrexate intercalated montmorillonite clay to cancer cells. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 135, 91-102	5.1	13
17	Copper(II) complexes of piperazine based ligand: Synthesis, crystal structure, protein binding and evaluation of anti-cancerous therapeutic potential. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 418, 30-41	2.7	13
16	Biomimetic Designing of Functional Silk Nanotopography Using Self-assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28458-28467	9.5	12
15	Thromboelastometric and platelet responses to silk biomaterials. <i>Scientific Reports</i> , <b>2014</b> , 4, 4945	4.9	10
14	UNILATERAL VARIATION OF PLANTARIS MUSCLE IN A CASE REPORT. <i>Journal of Evolution of Medical and Dental Sciences</i> , <b>2014</b> , 03, 618-622	0.1	7
13	Silk fibroin hydrogel as physical barrier for prevention of post hernia adhesion. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , <b>2017</b> , 21, 125-137	3.2	6
12	Super-magnetic smart hybrid doxorubicin loaded nanoparticles effectively target breast adenocarcinoma cells. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 243, 206-213	5.3	6
11	Tumor-Stroma Interactions Alter the Sensitivity of Drug in Breast Cancer. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	3
10	Template mediated protein self-assembly as a valuable tool in regenerative therapy. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 13, 044101	3.5	3
9	Cytotoxicity and sustained release of modified divinylsulfone from silk based 3D construct. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 263	4.5	2
8	adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. <i>Bioengineering</i> , <b>2021</b> , 8,	5.3	2

7	Metastasis in three-dimensional biomaterials <b>2020</b> , 191-216		1
6	Biomimetic Antibacterial Pro-Osteogenic Cu-Sericin MOFs for Osteomyelitis Treatment. <i>Biomimetics</i> , <b>2022</b> , 7, 64	3.7	0
5	INCIDENCE OF SUTURAL BONES WITH SPECIAL REFERENCE TO SEX - A STUDY IN THE EASTERN REGION OF INDIA. <i>Journal of Evolution of Medical and Dental Sciences</i> , <b>2013</b> , 2, 8729-8735		0.1
4	INCIDENCE & CAUSES OF NEONATAL HYPOGLYCEMIA AFTER CESAREAN SECTION IN A RURAL SETUP OF WEST BENGAL. <i>Journal of Evolution of Medical and Dental Sciences</i> , <b>2014</b> , 3, 1191-1194		0.1
3	Polysaccharides in Cancer Therapy <b>2022</b> , 723-743		
2	Forecast cancer: the importance of biomimetic 3D in vitro models in cancer drug testing/discovery and therapy. <i>In Vitro Models</i> , 1		
1	The Tumor Microenvironment: An Introduction to the Development of Microfluidic Devices. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 115-138	3.6	